Big Data - Workshop für Führungskräfte

Live Online oder Präsenz

Dauer : 2 Tage (14 Stunden)

Nr. : 54040

Inhouse-Paket : Auf Anfrage

Nach dem Besuch dieses Seminars haben Sie ein generelles Verständnis der aktuellen Möglichkeiten und Vorgehensweisen im Kontext des Schlagwortes "Big Data". Sie können Potentiale in Ihrer Organisation erkennen und zielgerichtet Projekte auf den Weg bringen.

Wer sollte teilnehmen:

Zielgruppe

Führungskräfte

Voraussetzungen

Voraussetzung für die erfolgreiche Teilnahme ist ein allgemeines Verständnis für IT und IT-Management.

Trainingsprogramm

Methodische und technische Evolution - von BI zu Big Data und cognitive Computing

- Data Warehouse und Business Intelligence
- Einsatzszenarien, Nutzen und Grenzen
- Analyse großer polystrukturierter Datenmengen
- Batch- und Echtzeitverarbeitung
- neue Geschäftsmodelle, neue Herausforderungen

Human readable II - Visual Analytics und Information Design

- Anwendungsbeispiele und Muster
- Traue keiner Statistik, die du nicht selber gefälscht hast
- Statistik und Grafiken
- Data Science
- Mustersuche, Optimierung und Prognose

Cognitive Computing - Natürliche Sprache als Schnittstelle

Aufbau von Teams und Projekten im Bereich Big Data

Projektmanagement

Schulungsmethode

Workshop

New

IBM 6XL530G - Administration of IBM Cloud Pak for Data (V4.x)

Live Online oder Präsenz

Dauer : 6h00

Nr. : 30468

Preis : 800,00 € netto
952,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course guides you through the most important administration activities that are related to the Cloud Pak for Data environment. You will recall the infrastructure of a Red Hat OpenShift cluster where Cloud Pak for Data runs, and you will learn how to manage this cluster. You will learn about multitenancy, tethered projects, the Cloud Pak for Data installation procedure, and prerequisites for various Cloud Pak for Data installation scenarios. A significant part of this course refers to tasks that an administrator must complete, including setting up an LDAP connection for user and group management, defining resource quotas and limits, and scaling services.

Wer sollte teilnehmen:

Zielgruppe

Audience

- Professional administrators of IBM Cloud Pak for Data

Voraussetzungen

Prerequisites

- Before you attend this course it is highly recommended to complete the learning path for associate administrators of Cloud Pak for Data.
- In order to be successful in this course, you should have basic knowledge of Red Hat OpenShift Container Platform and the architecture of Cloud Pak for Data.

Trainingsprogramm

Course Outline

Cluster architecture

- List the six installation factors
- Describe the two node types
- State the cluster requirements
- View node information
- Customize the platform Managing users
- Create a custom user role
- Add a user with the new role
- Create a user group in an LDAP system
- Disable the default admin user Monitoring resources
- Identify options in the monitoring user interfaces
- Set quotas for resource usage
- Create a custom monitor Scaling and multitenancy
- Describe the options for scaling the platform and services
- Scale up a service
- Define multitenancy
- Disable a route

Objective

After completion students should have an understanding of:

- Cluster architecture
- Managing users
- Monitoring resources
- Scaling and multitenancy

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

24. Apr 2023 bis 27. Apr 2023

19. Jun 2023 bis 22. Jun 2023

28. Aug 2023 bis 31. Aug 2023

23. Okt 2023 bis 26. Okt 2023

New

IBM 6A230G - IBM Safer Payments Hands-On Modeling Training (V6.X)

Live Online oder Präsenz

Dauer : 24h00

Nr. : 30465

Preis : 2.400,00 € netto
2.856,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

IBM Safer Payments is an innovative real-time payment fraud prevention and detection solution for all cashless payment types. IBM Safer Payments provides not only model capabilities based on inbuilt tools, but also the option to import externally built fraud models for real-time decisioning. In this course, all of the IBM Safer Payments model capabilities are presented in details. The following modelling concepts are covered: index, profiling techniques (with and without index sequence), model components comprised of rulesets, PMML, Python and Internal Random Forest, elements of the simulation environment including Rule Generation and Internal Random Forest, as well as the sampling techniques. All these concepts will be followed by the hands-on exercises that students are expected to execute.

Wer sollte teilnehmen:

Zielgruppe

Audience

IBM Safer Payments users (Fraud Analysts, Fraud Investigators and optional: System Administrators), IBM Lab experts, and IBM Buisiness Partners.

Voraussetzungen

Prerequisites

Business knowledge

Some familiarity with statistical models

Understanding Safer Payments data inputs concepts

Trainingsprogramm

Course Outline

Mandator Structure and its elements - Understand Safer Payments structure - Answer the Hierarchy question - Prioritization Execution Sandbox Environment - Understand Champion/Challenger Concepts - How to promote a model to production - How to copy elements from other challengers - How to revert the model in production Modeling Concepts in Safer Payments - Understand at the high level the inbuilt techniques vs external model capabilities - Answer the question of what are the Inbuild Model Capabilities - Answer the question of what are supported external Model Capability to Safer Payments Index for Profiling - Understand the basis of profiling in Safer Payments - Create Index without sequence - Create Index with sequence Profiling based on index with sequence - Understand Profiling concepts based on index with sequence - Build a counter - Build a precedent - Build a pattern Profiling based on index without sequence - Understand Profiling concepts based on index without sequence - Build a calendar - Build an event - Build device identification Profiling using Formula - Ability to create a formula Ruleset/Rule Creation/ Rule Action - Understand Rulesets and Rules - Build a Ruleset - Build a Rule - Create a Rule Action Simulation Workflow - Understand The Simulation Environment and workflow Simulation: Data Selection and Sampling techniques - Understand data selection for simulation - Able to select data selections for simulation - Able to sample the data selection - Run the simulation Simulation: Attribute usage - Understand the role of the attribute usage settings - Select attributes for simulation - Run the simulation Simulation: Rule Analysis - Understand the concept of the Rule Analysis - Create a Rule Analysis - Analyse a Rule Analysis Simulation: Rule Performance - Understand the concept of the Rule Performance - Create a Rule Performance - Analyse Rule Performance Simulation: Rule Scoring - Understand the concept of the Rule Scoring - Create a Rule Scoring Simulation: Rule optimization - Understand the concept of Rule Optimization - Create a Rule Optimization Report Inbuild Model Components: Rule Generation - Understand the concept behind Rule Generation - Understand the setting parameters - Use of verification data set and training data set - Use Interactive Mode for Rule Generation - Analyse the Rule Designer parameters - Use Fully automated Mode of Rule Generation Inbuild Model Components: Random Forest - Understand the concept of Internal Random Forest - Understand the setting parameters - Use of verification data set and training data set - Run and Analyse results Supported external Model Components: PMML - Understand how to import a PMML model into IBM Safer Payments - Understand how to map inputs and outputs of the model - Understand how to use PMML for decisioning Supported external Model Components: Python - Understand how to import a python script into IBM Safer Payments - Use python for pre-processing rules - Use python for formula - Use python for modelling Collusion Algorithm - Understand the concept of the Collusion Algorithm - Understand how to set up a collusion algorithm: manually and automatically - Create and simulate the Collusion - How to invoke the collusion algorithm

Objective

- Mandator Structure and its elements - Sandbox Environment - Modeling Concepts in Safer Payments - Index for Profiling - Profiling based on index with sequence - Profiling based on index without sequence - Profiling using Formula - Ruleset/Rule Creation/ Rule Action - Simulation Workflow - Simulation: Data Selection and Sampling techniques - Simulation: Attribute usage - Simulation: Rule Analysis - Simulation: Rule Performance - Simulation: Rule Scoring - Simulation: Rule optimization - Inbuild Model Components: Rule Generation - Inbuild Model Components: Random Forest - Supported external Model Components: PMML - Supported external Model Components: Python - Collusion Algorithm

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

19. Jun 2023 bis 21. Jun 2023	14. Aug 2023 bis 16. Aug 2023	13. Nov 2023 bis 15. Nov 2023

New

IBM CV042G - Db2 12 for zOS: Basics for DBA Beginners

Live Online oder Präsenz

Dauer : 40h00

Nr. : 30464

Preis : 4.000,00 € netto
4.760,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

Db2 12 for z/OS beginning DBAs can develop fundamental skills or recognition through lectures and hands-on exercises of:

- TSO/E and ISPF
- Data sets
- Db2 Objects
- Structured Query Language
- Db2 Commands
- JCL and SDSF
- Db2 Utilities
- Db2 Logging
- Db2 Program Preparation

The course materials cover Db2 12 for z/OS

Wer sollte teilnehmen:

Zielgruppe

Audience

This beginning Db2 basic course is for z/OS database administrators who need to acquire the basic skills required to administer a Db2 database in a z/OS environment.

Voraussetzungen

Prerequisites

null

Trainingsprogramm

Course Outline

Unit 1 Introduction

- The modern Mainframe Environment
- Defining z/OS
- What are the benefits of z/OS?
- Typical z/OS workloads
- Batch processing
- Online Transaction Processing
- Job roles in the Mainframe environment
- z/OS Components and Services
- UNIX System Services
- The Parallel Sysplex Environment
- z/OS Management Interfaces

Unit 2 TSO/E and ISPF

- Emulators
- z/VM systems
- 2.1. TSO/E
- TSO Logon panel
- Changing passwords
- Additional logon panel options
- The Reconnect option
- TSO READY prompt
- TSO HELP command
- LISTALC command
- PROFILE command
- Changing PROFILE
- LOGOFF command
- Scripting support
- 2.2. ISPF
- What is ISPF
- ISPF command
- ISPF Primary Option Menu
- Primary Option Menu Areas
- Action Bar
- Options option
- ISPF Settings
- Global Color Change Utility
- Function Keys
- Option or Command Prompt
- Keylist Utility
- F3 Exit

- F1 Help
- F2 Split
- ISPF Navigation Techniques
- PFSHOW
- More ISPF commands
- Option listing
- ISPF Command Shell
- TSO Command Prefix

Unit 3 Data Sets

- Data sets
- Types of data sets
- DASD versus Tape
- Volumes
- Storage allocation
- Data set naming conventions
- Catalogs
- Storage Management
- Checkpoint
- 3.2. Sequential Data Sets
- Creating data sets
- Utility Selection Panel
- Data Set Utility Panel
- Creating a data set
- Allocate New Data Set
- Creating a sequential data set
- Editing a sequential data set
- ISPF Editor
- ISPF Editor primary commands
- ISPF Editor line commands
- Data Set List Utility
- Data set name wild cards
- Data Set List Utility
- DSLIST results
- Select Action
- HELP on Line Commands
- DSLIST by volume
- 3.3. Partitioned Data Sets
- Partitioned data sets
- Creating a PDS
- PDS members
- Creating a PDS member – Library Utility Panel
- DSLIST Utility
- PDS Member List
- Member Actions
- 3.4. VSAM Data Sets
- VSAM data sets
- VSAM data set components
- Creating a VSAM data set

Unit 4 JCL and SDSF

- 4.1. JCL
- Batch Jobs versus Online Transactions
- Batch job activities
- Creating the batch job
- JCL: Job Control Language
- Statement format
- JOB statement
- EXEC statement
- DD statement
- Instream Input Data Set
- Instream Output Data Set
- DD DUMMY
- Sample Jobstream 1
- Sample Jobstream 2
- Submitting the job
- Notification
- 4.2. SDSF
- SDSF
- SDSF Primary Option Menu
- Output and Held queues
- PREFIX command
- Working with queue query
- Select command
- ? command
- Canceling or Purging output
- Sample jobstream 1 revisited
- Sample jobstream 2 revisited

Unit 5 Db2 Relational Database Concepts

- Relational Database Systems
- Db2 for z/OS and Db2 family
- The Db2 Optimizer
- Benefits of Db2 for z/OS
- Database
- Tables
- Indexes
- Primary Key
- Relationships
- Referential Integrity
- Integrity Rules
- Data domains
- Table scan access
- Index access
- Interacting with Db2
- Transactions

UNIT 6 Structured Query Language (SQL) and SPUFI

- Structured Query Language (SQL)
- SQL categories
- SELECT statement
- SELECT list
- FROM clause
- Simple SELECT statement
- SUBSTR function
- SELECT with SUBSTR function
- WHERE clause
- SELECT with WHERE clause
- IN operator
- WHERE with IN operator
- BETWEEN operator
- WHERE with BETWEEN operator
- LIKE operator
- WHERE with LIKE operator
- ORDER BY clause
- The NULL value
- SELECT with ORDER BY
- Putting it all together
- Joining tables
- Correlation Names
- Additional criteria
- Cartesian products
- Executing SQL
- SQLCODE

Unit 7 Db2 Objects

- 7.1. Databases and Table Spaces
- Db2 objects
- The Db2 catalog
- Storage group
- Database
- Table Space
- Segmented table space
- Partitioned table space
- Partition By Growth table space
- Partition By Range table space
- VSAM data sets
- 7.2. Tables, Indexes and Views
- Table
- Partitioned table
- Index
- Clustering index
- Index space
- Partitioned index
- View
- 7.3. Qualified names, Implicit Object Creation, and SQL statements

- Qualyfing Db2 objects
- Implicit object creation
- DML statements
- Insert statement
- UPDATE statement
- DELETE statement
- COMMIT statement
- ROLLBACK statement

Unit 8 The Db2 System

- The Db2 system
- System parameters
- Required address spaces
- Optional address spaces
- Started tasks
- Master address space
- System databases
- Directory
- Catalog
- System database data sets
- Data pages
- Buffer pools
- Buffer pools: Read operations
- Buffer pools: Write operations
- System buffer pools
- Db2 logging
- Bootstrap data set
- Db2 locking
- Integrity issues
- Transaction locks
- Isolation Levels
- User interfaces

Unit 9 Db2 Commands and Program Preparation

- Accessing Db2
- 9.1. Db2 Commands
- Db2 commands
- Command format
- DISPLAY DATABASE
- DISPLAY DATABASE SPACENAM
- Other DISPLAY DATABASE options
- DISPLAY BUFFERPOOL
- DISPLAY DDF
- DISPLAY LOG
- DISPLAY THREAD
- ARCHIVE LOG
- STOP DATABASE
- START DATABASE

- STOP DATABASE SPACENAM
- START DABATASE SPACENAM
- Executing commands
- Executing commands: TSO
- Executing commands: Batch
- Executing commands: SDSF
- 9.2. Program Preparation
- Db2 program preparation
- Source program
- Precompiler
- Compile and link edit
- Database Request Module
- Bind plan
- Bind plan
- EXPLAIN
- Program execution

Unit 10 Db2 Utilities

- Utility categories
- Utility and Tools Packaging
- Standalone utilities
- Service aids and samples
- Online utilities
- UNLOAD utility
- UNLOAD control statement
- LOAD utility
- LOAD utility steps
- Restrictive states
- Db2| Utility Generator
- Utility Panel One
- Utility Panel Two
- Utility batch job
- DSNUPROC
- SYSUTIL table
- DISPLAY UTILITY command

Unit 11 Db2 Shutdown, Startup, and Recovery

- Buffer Pools and Logging
- Normal Db2 Shutdown
- Restart phases
- Starting Db2 after a normal shutdown
- Abnormal Db2 shutdown
- Starting Db2 after an abnormal shutdown
- Log initialization
- Current status rebuild
- Forward log recovery
- Backward log recovery
- Object backup and recovery

- COPY utility
- Table space recovery
- RECOVER utility

Unit 12 Course Summary

- z/OS topics
- Db2 for z/OS topics
- Other Db2 courses
- Db2 for z/OS certifications
- Course Evaluation

Objective

- Describe several services provided in a z/OS environment
- Explain workloads in the batch environment
- Explain workloads in the online environment
- Describe job roles in a z/OS environment
- Log On to TSO/E
- Navigate TSO/E and ISPF
- Use TSO commands
- Setup and utilize JCL (Job Control Language)
- Utilize SDSF
- Describe the different types of data sets in a z/OS environment
- Allocate data sets and list data set information and content
- Create and modify data set content
- Give an overview of the Db2 9 environment
- Describe and utilize Db2 Objects
- Describe and utilize several DB2 Utilities
- Describe the Db2I (Db2 Interactive Facility) environment
- Use SPUFI (SQL Processing Using File Input) to compose and execute SQL
- Setup and execute Db2 Commands
- Understand Db2 Logging
- Describe Db2 program preparation process
- Understand Db2 startup and shutdown
- Understand and utilize Db2 recovery strategies

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

24. Apr 2023 bis 28. Apr 2023	12. Jun 2023 bis 16. Jun 2023 Garantietermin	14. Aug 2023 bis 18. Aug 2023
9. Okt 2023 bis 13. Okt 2023	20. Nov 2023 bis 24. Nov 2023	

New

IBM 6XL534G - Enterprise catalog management and data protection with Watson Knowledge Catalog on IBM Cloud Pak for Data 4.0.x

Live Online oder Präsenz

Dauer : 6h00

Nr. : 30463

Preis : 1.400,00 € netto
1.666,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course provides Solution Architects an introduction to the basics of Watson Knowledge Catalog for IBM Cloud Pak for Data. You will learn to access the Watson Knowledge Catalog through the service, and gain skills in creating catalogs, populating them with assets, and then managing the assets in the catalog through a governance framework.

Wer sollte teilnehmen:

Zielgruppe

Audience

Enterprise catalog management and data protection with Watson Knowledge Catalog is the third course in the learning path that IBM designed for professional Solution Architects of Cloud Pak for Data, and is intended to give you an overview of the Watson Knowledge Catalog service on the Cloud Pak for Data platform.

Voraussetzungen

Prerequisites

Before taking this course, students should be able to:

- Explain the purpose of Cloud Pak for Data and the value it brings to the business
- Describe its basic architecture
- Differentiate between Cloud Pak for Data and Red Hat OpenShift Container Platform
- Define the AI Ladder and its associated roles and services
- Log in to Cloud Pak for Data and complete an analytics project

Trainingsprogramm

Course Outline

Introduction

- Recall prerequisite knowledge and skills
- Outline the course flow
- Define the lab environment
- Outline the narrative

Preparing the governance environment

- Summarize the purpose of Watson Knowledge Catalog
- State the benefits of using catalogs
- Describe how to control access to data
- List the characteristics of the Default Catalog
- Create user accounts and define roles
- Load data into an integrated database

Creating a governance workflow and framework

- Summarize enterprise governance
- Describe a governance workflow
- Establish a governance workflow
- Select a data class matching method
- Create governance artifacts

Describing data

- Differentiate among data descriptors
- Create a business term
- Import and debug a glossary of terms
- Publish business terms
- Add a classification

Discovering the data

- Explain the purpose of data curation
- List the data curation process steps
- Differentiate between the automated data discovery methods
- Evaluate the results of a Quick Scan and Automated Discovery
- Publish discovery results to a data quality project
- Determine relationships between data and governance artifacts

Applying data quality rules

- List the types of data quality rules
- Define and run a quality rule
- Build an automation rule
- Publish a refined data set to the catalog

Analyzing the data

- Summarize the data governance journey
- Create an analytics project
- Add data to the project
- Refine the data
- Review the data history

Review and evaluation

- Summarize governance artifacts
- Summarize data governance
- Complete the final quiz
- Discover what's next in the learning path

Objective

In this course, students will learn to:

- Prepare the governance environment
- Create a governance workflow and framework
- Describe data
- Discover the data
- Apply data quality rules
- Analyze the data

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

2. Mai 2023	2. Mai 2023	16. Jun 2023
19. Jun 2023		

New

IBM 6XL538G - Installation of IBM Cloud Pak for Data (V4.x)

Live Online oder Präsenz

Dauer : 6h00

Nr. : 30461

Preis : 800,00 € netto
952,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course provides guidelines to prepare your environment for IBM Cloud Pak for Data and to successfully deploy the software. From the attached demonstrations you will learn step by step how to perform each task. You will verify the acquired knowledge by completing the designated hands-on exercises.

Wer sollte teilnehmen:

Zielgruppe

Audience

Professional administrators of IBM Cloud Pak for Data

Voraussetzungen

Prerequisites

- You must own an entitlement API key that has been associated with your IBM account after you have purchased the Cloud Pak for Data software.
- In order to be successful in this course, you should have basic knowledge of Red Hat OpenShift Container Platform and the architecture of Cloud Pak for Data.
- Before you attend this course it is highly recommended to complete the learning path for associate administrators of Cloud Pak for Data.

Trainingsprogramm

Course Outline

Introduction

- Introduction to the learning prerequisites and objectives
- Introduction to the course instructor
- Course guidelines
- Introduction to the business scenario
- Introduction to the classroom environment

Prepare the environment for installation

- Create projects to deploy Cloud Pak for Data
- Obtain the IBM entitlement API key
- Configure the cluster to pull Cloud Pak for Data images
- Create operators and operator subscriptions
- Adjust the nodes settings before the Cloud Pak for Data installation
- Install the Cloud Pak foundational services

Install Cloud Pak for Data

- Check the requirements for the installation
- Perform the installation procedure
- Verify if the installation completed successfully

Install Watson Studio

- Install the service and verify the installation

Uninstall Cloud Pak for Data

- Uninstall dependent services
- Uninstall the common core services
- Uninstall Cloud Pak for Data
- Uninstall the Cloud Pak for Data operators

Review & Evaluation

- Summarize the course
- Gather the top takeaways from the course
- Verify the acquired knowledge

Objective

- Introduction to installation of IBM Cloud Pak for Data
- Preparing the environment for installation
- Installing Cloud Pak for Data
- Installing Watson Studio
- Uninstalling Cloud Pak for Data
- Review & Evaluation

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

2. Mai 2023	19. Jun 2023	25. Sep 2023
4. Dez 2023		

New

IBM 6XL536G - IBM Cloud Pak for Data (V4.x) Foundations

Live Online oder Präsenz

Dauer : 6h00

Nr. : 30460

Preis : 800,00 € netto
952,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This learning offering tells a holistic story of Cloud Pak for Data and how you can extend the functions with services and integrations. You will explore some of the services and see how they enable effective collaboration across an organization. In this course, you will use Watson Knowledge Catalog, Data Virtualization, and Watson Studio (including Data Refinery and AutoAI). You will also examine some of the external data sets and industry accelerators that are available on the platform.

Wer sollte teilnehmen:

Zielgruppe

Audience

Anyone who wants to gain foundational knowledge of IBM Cloud Pak for Data

Voraussetzungen

Prerequisites

Before you start this course, you should be able to complete the following tasks:

- Explain the purpose of Cloud Pak for Data and the value it brings to the business
- Describe its basic architecture
- State its deployment options
- Differentiate between Cloud Pak for Data and Red Hat OpenShift Container Platform
- Define the AI Ladder and its associated roles and services
- Identify the types of projects and how to collaborate on the platform
- Log in to Cloud Pak for Data and create an analytics project

You can review these skills in the *Solution Architect – Associate* learning path.

Trainingsprogramm

Course Outline

Create an analytics project

- Summarize the ModelOps process
- Relate a process to a workflow
- Identify the predefined roles in Cloud Pak for Data
- Define analytics project
- Create an analytics project (data scientist)
- Request data (data scientist)

Add data to the project

- Respond to a data request
- Evaluate adding data from an integrated database versus data virtualization
- Differentiate between platform and service level connections
- Access an integrated database (data engineer)
- Create a catalog (data engineer)
- Connect to a data source (data engineer)
- Construct a virtualized table from a single data source (data engineer)

Organize the data

- Describe catalogs and their uses
- Summarize what you can do with the Watson Knowledge Catalog service
- List the types of governance artifacts
- Identify how to manage risk and regulatory challenges
- Profile data assets (data steward)
- Define a data protection rule (data steward)

Prepare the data

- List the ways to prepare data for use in projects
- Describe what you can do with Data Refinery
- Prepare data for modeling (data quality analyst)
- Validate data (data quality analyst)
- Visualize data (data quality analyst)
- Develop a Data Refinery flow (data quality analyst)
- Create a data set for modeling (data quality analyst)

Analyze the data and build a model

- Name the steps in the data analysis process

- List the criteria for choosing a modeling tool in analytics projects
- Summarize the AutoAI requirements
- Outline the AutoAI process
- Articulate the deployment process
- Describe how to use notebooks
- Build an AutoAI model (data scientist)
- Save an AutoAI pipeline model (data scientist)
- Deploy a model (data scientist)
- Save an experiment as a notebook

Expand to other scenarios

- Indicate how to monitor models
- List the aspects of trustworthy AI
- Identify how to collaborate with external stakeholders
- Describe how to extend Cloud Pak for Data functions
- Define scaling services
- Classify services
- List the most popular services from each category
- Associate Cloud Pak for Data use cases with the services that support them
- Explore solutions (solutions, services, external data sets and industry accelerators)

Objective

By the end of this course, you will be able to:

- Describe the Cloud Pak for Data implementation stack
- Summarize the Cloud Pak for Data workflow that implements the ModelOps process
- Construct a simple predictive model that reflects a typical Data Fabric solution
- Examine external data sets and industry accelerators that promote trustworthy AI
- Select services that align to the goals of a data-driven organization

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

2. Mai 2023	19. Jun 2023	25. Sep 2023
4. Dez 2023		

New

IBM CL489G - Db2 11.5 Quickstart for Relational DBAs

Live Online oder Präsenz

Dauer : 32h00

Nr. : 30456

Preis : 3.200,00 € netto
3.808,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course teaches you to perform, basic and advanced, database administrative tasks using Db2 11.5. These tasks include creating and populating databases and implementing a logical design to support recovery requirements. The access strategies selected by the Db2 Optimizer will be examined using the Db2 Explain tools. Various diagnostic methods will be presented, including using various db2pd command options. Students will learn how to implement automatic archival for database logs and how to plan a redirected database restore to relocate either selected table spaces or an entire database. The REBUILD option of RESTORE, which can build a database copy with a subset of the tablespaces, will be discussed. We will also cover using the TRANSPORT option of RESTORE to copy schemas of objects between two Db2 databases. The selection of indexes to improve application performance and the use of SQL statements to track database performance and health will be covered. This course provides a quick start to Db2 database administration skills for experienced relational Database Administrators (DBAs). The lab demonstrations are performed using Db2 11.5.6 for Linux. For some lab tasks, students will have the option to complete the task using a Db2 command line processor, or using the graphical interface provided by IBM Data Server Manager..

Wer sollte teilnehmen:

Zielgruppe

Audience

This is an intermediate course for experienced DBAs and technical individuals, with experience on other relational database platforms, who plan, implement, and maintain Db2 11.5 for Linux, UNIX, and Windows databases. These skills can also be utilize to support cloud based databases using Db2 on Cloud or Db2 Hosted environments.

Voraussetzungen

Prerequisites

- Participants should have the following skills:
- Perform basic database administration tasks on a relational database system

- Use basic OS functions such as utilities, file permissions, hierarchical file system, commands, and editor
- State the functions of the Structured Query Language (SQL) and be able to construct DDL, DML, and authorization statements
- Discuss basic relational database concepts and objects such as tables, indexes, views, and joins

Trainingsprogramm

Course Outline

- Overview of Db2 11.5
- Db2 Command Line Processor (CLP) and GUI tools
- The Db2 database manager instance
- Creating databases and data placement
- Creating database objects
- Moving data
- Backup and recovery
- Database maintenance, monitoring, and problem determination
- Locking and concurrency
- Security
- Database rebuild support
- Db2 database and tablespace relocation
- Using Explain tools
- Using indexes for performance
- Advanced monitoring

Objective

- Administer a Db2 database system using commands and GUI tools like IBM Data Server Manager
- Compare DMS and Automatic storage management for table space storage
- Implement a given logical database design using Db2 to support integrity and concurrency requirements
- Compare the features available with different Db2 product editions Select the appropriate Db2 client software to support application client or server systems
- Define a Db2 recovery strategy and perform the tasks necessary to support the strategy
- Explore the Db2 recovery facilities and database configuration options Perform the implementation of automated archival and retrieval of database logs
- Use autonomic features of Db2 for collection of table and index statistics Implement Db2 security
- Select indexes to support application performance requirements Plan for supporting database and disaster recovery scenarios using Db2 database and table space backups using the RESTORE command with a REBUILD option
- Select appropriate methods for moving Db2 tables, including ADMIN_MOVE_TABLE, DB2MOVE or the TRANSPORT option of the RESTORE command.
- Utilize the Db2 Explain tools to examine access strategies Select the appropriate utility to relocate a database or a portion of a database, including using the RESTORE utility or the db2relocatedb command
- Use the Db2 Design Advisor to analyze SQL statements to suggest new indexes to improve application performance
- Investigate current application activity that might indicate performance problems using SQL statements
- Use the Db2 provided monitor and Functions in SQL to evaluate efficient use of database memory for locks, sorting and package cache

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

2. Mai 2023 bis 5. Mai 2023

19. Jun 2023 bis 22. Jun 2023

25. Sep 2023 bis 28. Sep 2023

4. Dez 2023 bis 7. Dez 2023

New

IBM W7L149G - Creating, Testing, and Deploying Machine Learning Models with IBM Watson Studio

Live Online oder Präsenz

Dauer : 7h00

Nr. : 30450

Preis : 800,00 € netto
952,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course takes the data scientist (or business analyst) on a journey from the creation of several machine learning models to its deployment and testing. Various tools and services as well as programming and graphical user interfaces are used in the process. The course ends with the sharing of assets on GitHub and a brief discussion on governance and stewardship.

Wer sollte teilnehmen:

Zielgruppe

Audience

Data Scientists and Business Analysts

Voraussetzungen

Prerequisites

The data scientists' and business analysts' prerequisite skills and knowledge include:

- Experience working in a browser
- Some experience writing and running Python programs
- Some experience with the Jupyter Notebook environment
- Some experience working with a graphical user interface (GUI)
- Knowledge of machine learning (regression, decision trees, and random forests)
- Some experience working with GitHub

Trainingsprogramm

Course Outline

- Introduction
- Rapid prototyping with AutoAI
- Creating, testing, and deploying machine learning models
- Governance, integration, and collaboration

Objective

- Define a solution to a business problem using tools and frameworks from IBM Watson Studio
- Demonstrate how the AI lifecycle can be automated by building a rapid prototype using AutoAI
- Build, train, and deploy a machine learning model with the tools and services available in Watson Studio
- Implement GitHub Integration and team collaboration in Watson Studio

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

24. Apr 2023	19. Jun 2023	28. Aug 2023
23. Okt 2023		

New

IBM 6XL638G - Installation of IBM Cloud Pak for Data (v4.5)

Live Online oder Präsenz

Dauer : 6h00

Nr. : 30449

Preis : 800,00 € netto
952,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course provides guidelines to prepare your environment for IBM Cloud Pak for Data and to successfully deploy the software. From the attached demonstrations, you will learn step by step how to perform each task. You will verify the acquired knowledge by completing the designated hands-on exercises.

Wer sollte teilnehmen:

Zielgruppe

Audience

Professional administrators of Cloud Pak for Data

Voraussetzungen

Prerequisites

To be successful in this course, you should have basic knowledge of Red Hat OpenShift Container Platform and the architecture of Cloud Pak for Data. Before you attend this course, it is highly recommended to complete the learning path for associate administrators of Cloud Pak for Data. Experience in the use of a Linux terminal session, issuing operating system commands, and familiarity with shell scripting is recommended but not required.

Note that to be able to complete the guided exercises and Lab activity that are included in this course, you must own an entitlement API key that has been associated with your IBM account after you have purchased the Cloud Pak for Data software.

Trainingsprogramm

Course Outline

- Introduction
- Prepare the environment for installation
- Install the IBM Cloud Pak for Data platform and services
- Uninstall Cloud Pak for Data

Objective

After completing this course, you should be able to:

- Configure the settings to prepare the environment for Cloud Pak for Data Installation
- Perform the installation of the Cloud Pak for Data platform and additional services
- Verify whether the Cloud Pak for Data installation completed successfully
- Uninstall Cloud Pak for Data and any dependent services

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

25. Apr 2023	20. Jun 2023	29. Aug 2023
24. Okt 2023		

New

IBM 6XL630G - Administration of IBM Cloud Pak for Data (v4.5)

Live Online oder Präsenz

Dauer : 7h00

Nr. : 30448

Preis : 800,00 € netto
952,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course guides you through the most important administration activities that are related to the Cloud Pak for Data environment. You will recall the infrastructure of a Red Hat OpenShift cluster where Cloud Pak for Data runs, and you will learn how to manage this cluster. You will learn about multitenancy, tethered projects, the Cloud Pak for Data installation procedure, and prerequisites for various Cloud Pak for Data installation scenarios. A significant part of this course refers to tasks that an administrator must complete, including setting up an LDAP connection for user and group management, defining resource quotas and limits, and scaling services.

Wer sollte teilnehmen:

Zielgruppe

Audience

Professional administrators of IBM Cloud Pak for Data

Voraussetzungen

Prerequisites

As a prerequisite, you should have basic knowledge of Red Hat OpenShift Container Platform and the architecture of Cloud Pak for Data. Before you attend this course, it is highly recommended to complete the learning path for associate administrators of Cloud Pak for Data. Experience in the use of a Linux terminal session, issuing operating system commands, and familiarity with shell scripting is recommended but not required. It is also helpful to complete the previous course in the learning path, Installation of IBM Cloud Pak for Data.

Trainingsprogramm

Course Outline

- Introduction
- Cluster architecture
- Managing users
- Monitoring resources
- Managing availability and capacity
- Additional administrative tasks

Objective

In this course, students will learn about:

- Cluster architecture
- Managing users
- Monitoring resources
- Scaling and multitenancy

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

24. Apr 2023	19. Jun 2023	28. Aug 2023
23. Okt 2023		

New

IBM CL910G - Db2 11.5 HADR Workshop

Live Online oder Präsenz

Dauer : 8h00

Nr. : 30444

Preis : 800,00 € netto
952,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course teaches database administrators how to plan, implement and manage Db2 11.5 databases using the High Availability Disaster Recovery HADR) feature. The lectures cover the processing performed for a Db2 Primary and Standby Db2 database. The Db2 database configuration options that define and control the HADR function are covered. The option to define and operate multiple HADR standby databases will be explained. The course also covers the special considerations for allowing read-only access by applications to a HADR Standby database. Students will learn the Db2 commands like TAKEOVER, START HADR, and STOP HADR that are used to control HADR primary and standby database activity. The monitoring for HADR status of the primary and standby databases using the db2pd commands will be presented. The course also presents the usage of HADR with Db2 pureScale databases.

Wer sollte teilnehmen:

Zielgruppe

Audience

- This course is intended for students that will manage Db2 11.5 databases using the High Availability Disaster Recovery feature.

Voraussetzungen

Prerequisites

- A working knowledge of Db2 11.5 database server management including backup and recovery operations, Db2 utility execution and database monitoring with db2pd commands.
- Use basic Linux OS functions such as file management, file permissions, and text file editing.

Trainingsprogramm

Course Outline

1: Db2 HADR Concepts and Implementation

- Describe the benefits and limitations of implementing High Availability Disaster Recovery (HADR)
- Implement HADR, including the setup of a Primary and Standby database
- Use the commands START HADR, STOP HADR, and TAKEOVER to manage an operational HADR system
- Plan for the use of the Db2 utilities like LOAD, REORG, Backup and Restore in an HADR environment
- Select appropriate HADR database configuration options in order to meet the requirements of a specific application environment including the HADR_PEER_WINDOW
- Monitor the status of the Primary and Standby database using SQL with MON_GET_HADR or db2pd -hadr commands
- Utilize the HADR_SPOOL_LIMIT configuration option to control Log Spooling on the Standby Database

2: Db2 HADR Standby Database Management

- Describe the options to define multiple HADR standby databases
- Implement a delayed replay on a HADR Standby database using the HADR_REPLAY_DELAY configuration option
- Configure HADR_TARGET_LIST configuration options to define multiple HADR standby databases
- Compare the principal standby database to an auxiliary standby for a HADR configuration
- Monitor the status of the Primary and multiple Standby databases using the db2pd – hadr command or the MON_GET_HADR function
- Implement Read-only application access to the Standby database in an HADR database environment
- Restore an offline table space in a Standby Database
- Upgrade the Db2 software release for a Primary and Standby database without reinitializing the Standby

3: Db2 HADR for pureScale

- Describe the support for HADR on Db2 pureScale systems
- Explain the use of the replay member for the standby pureScale database
- Utilize db2pd or MON_GET_HADR to monitor the status of HADR for a pureScale database
- Plan a rolling upgrade for a Db2 pureScale database in a HADR environment

Objective

- Db2 HADR Concepts and implementation
- Db2 HADR Standby database management
- Db2 HADR for pureScale

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

1. Mai 2023	19. Jun 2023	25. Sep 2023
4. Dez 2023		

IBM 0A008G - Introduction to IBM SPSS Modeler and Data Science (v18.1.1)

Live Online oder Präsenz

Dauer : 16h00

Nr. : 30171

Preis : 1.600,00 € netto
1.904,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course provides the fundamentals of using IBM SPSS Modeler and introduces the participant to data science. The principles and practice of data science are illustrated using the CRISP-DM methodology. The course provides training in the basics of how to import, explore, and prepare data with IBM SPSS Modeler v18.1.1, and introduces the student to modeling.

Wer sollte teilnehmen:

Zielgruppe

Audience

- Business analysts
- Data scientists
- Clients who are new to IBM SPSS Modeler or want to find out more about using it

Voraussetzungen

Prerequisites

- It is recommended that you have an understanding of your business data

Trainingsprogramm

Course Outline

1. Introduction to data scienceList two applications of data scienceExplain the stages in the CRISP-DM methodologyDescribe the skills needed for data science2. Introduction to IBM SPSS ModelerDescribe IBM SPSS Modeler's user-interfaceWork with nodes and streamsGenerate nodes from outputUse SuperNodesExecute

streamsOpen and save streamsUse Help3. Introduction to data science using IBM SPSS ModelerExplain the basic framework of a data-science projectBuild a modelDeploy a model4. Collecting initial dataExplain the concepts data structure, of analysis, field storage and field measurement levelImport Microsoft Excel filesImport IBM SPSS Statistics filesImport text filesImport from databasesExport data to various formats5. Understanding the dataAudit the dataCheck for invalid valuesTake action for invalid valuesDefine blanks6. Setting the of analysisRemove duplicate recordsAggregate recordsExpand a categorical field into a series of flag fieldsTranspose data7. Integrating dataAppend records from multiple datasetsMerge fields from multiple datasetsSample records8. Deriving and reclassifying fieldsUse the Control Language for Expression Manipulation (CLEM)Derive new fieldsReclassify field values9. Identifying relationshipsExamine the relationship between two categorical fieldsExamine the relationship between a categorical field and a continuous fieldExamine the relationship between two continuous fields10. Introduction to modelingList three types of modelsUse a supervised modelUse a segmentation model

Objective

- Introduction to data science
- Introduction to IBM SPSS Modeler
- Introduction to data science using IBM SPSS Modeler
- Collecting initial data
- Understanding the data
- Setting the of analysis
- Integrating data
- Deriving and reclassifying fields
- Identifying relationships
- Introduction to modeling

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

24. Apr 2023 bis 25. Apr 2023

19. Jun 2023 bis 20. Jun 2023

21. Aug 2023 bis 22. Aug 2023

11. Dez 2023 bis 12. Dez 2023

IBM 0A018G - Data science without a Ph.D. Using IBM SPSS Modeler (v18.1.1)

Live Online oder Präsenz

Dauer : 8h00

Nr. : 30290

Preis : 800,00 € netto
952,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course focuses on reviewing concepts of data science, where participants will learn the stages of a data science project. Topics include using automated tools to prepare data for analysis, build models, evaluate models, and deploy models. To learn about these data science concepts and topics, participants will use IBM SPSS Modeler as a tool.

Wer sollte teilnehmen:

Zielgruppe

Audience

- Business Analysts
- Data Scientists
- Participants who want to get started with data science

Voraussetzungen

Prerequisites

- It is recommended that you have an understanding of your business data

Trainingsprogramm

Course Outline

1: Introduction to data science and IBM SPSS Modeler • Explain the stages in a data-science project, using the CRISP-DM methodology • Create IBM SPSS Modeler streams • Build and apply a machine learning model2: Setting measurement levels • Explain the concept of field measurement level • Explain the consequences of incorrect measurement levels • Modify a field's measurement level3: Exploring the data • Audit the data •

Check for invalid values • Take action for invalid values • Impute missing values • Replace outliers and extremes4: Using automated data preparation • Automatically exclude low quality fields • Automatically replace missing values • Automatically replace outliers and extremes5: Partitioning the data • Explain the rationale for partitioning the data • Partition the data into a training set and testing set6: Selecting predictors • Automatically select important predictors (features) to predict a target • Explain the limitations of automatically selecting features7: Using automated modeling • Find the best model for categorical targets • Find the best model for continuous targets • Explain what an ensemble model is8: Evaluating models • Evaluate models for categorical targets • Evaluate models for continuous targets9: Deploying models • List two ways to deploy models • Export scored data

Objective

- Introduction to data science and IBM SPSS Modeler
- Setting measurement levels
- Exploring the data
- Using automated data preparation
- Partitioning the data
- Selecting predictors
- Using automated modeling
- Evaluating models
- Deploying models

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

3. Jul 2023	20. Nov 2023

IBM 0A028G - Introduction to Time Series Analysis Using IBM SPSS Modeler (v18.1.1)

Live Online oder Präsenz

Dauer : 8h00

Nr. : 30125

Preis : 800,00 € netto
952,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course gets you up and running with a set of procedures for analyzing time series data. Learn how to forecast using a variety of models, including regression, exponential smoothing, and ARIMA, which take into account different combinations of trend and seasonality. The Expert Modeler features will be covered, which is designed to automatically select the best fitting exponential smoothing or ARIMA model, but you will also learn how to specify your own custom models, and also how to identify ARIMA models yourself using a variety of diagnostic tools such as time plots and autocorrelation plots.

Wer sollte teilnehmen:

Zielgruppe

Audience

Roles: Business Analyst, Data Scientist
Specifically, this is an introductory course for:
• Anyone who is interested in getting up to speed quickly and efficiently using the IBM SPSS Modeler forecasting capabilities

Voraussetzungen

Prerequisites

• Familiarity with the IBM SPSS Modeler environment (creating, editing, opening, and saving streams).
• General knowledge of regression analysis is recommended but not required

Trainingsprogramm

Course Outline

1: Introduction to time series analysisExplain what a time series analysis isDescribe how time series models workDemonstrate the main principles behind a time series forecasting model2: Automatic forecasting with the Expert ModelerExamine fit and errorExamine unexplained variationExamine how the Expert Modeler chooses the best fitting time series model3: Measuring model performanceDiscuss various ways to evaluate model performanceEvaluate model performance of an ARIMA modelTest a model using a holdout sample4: Time series regressionUse regression to fit a model with trend, seasonality and predictorsHandling predictors in time series analysisDetect and adjust the model for autocorrelationUse a regression model to forecast future values5: Exponential smoothing modelsTypes of exponential smoothing modelsCreate a custom exponential smoothing modelForecast future values with exponential smoothingValidate an exponential smoothing model with future data6: ARIMA modelingExplain what ARIMA isLearn how to identify ARIMA model typesUse sequence charts and autocorrelation plots to manually identify an ARIMA model that fits the dataCheck your results with the Expert Modeler

Objective

Introduction to time series analysis

Automatic forecasting with the Expert Modeler

Measuring model performance

Time series regression

Exponential smoothing models

ARIMA modeling

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

30. Mai 2023	25. Okt 2023	4. Dez 2023

IBM 0A038G - Advanced Predictive Modeling Using IBM SPSS Modeler (v18.1.1)

Live Online oder Präsenz

Dauer : 8h00

Nr. : 30241

Preis : 800,00 € netto
952,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course presents advanced models to predict categorical and continuous targets. Before reviewing the models, data preparation issues are addressed such as partitioning, detecting anomalies, and balancing data. The participant is first introduced to a technique named PCA/Factor, to reduce the number of fields to a number of core fields, referred to as components or factors. The next units focus on supervised models, including Decision List, Support Vector Machines, Random Trees, and XGBoost. Methods are reviewed to combine supervised models and execute them in a single run, both for categorical and continuous targets.

Wer sollte teilnehmen:

Zielgruppe

Audience

- Business Analysts
- Data Scientists
- Users of IBM SPSS Modeler responsible for building predictive models

Voraussetzungen

Prerequisites

- Familiarity with the IBM SPSS Modeler environment (creating, editing, opening, and saving streams).
- Familiarity with basic modeling techniques, either through completion of the courses Predictive Modeling for Categorical Targets Using IBM SPSS Modeler and/or Predictive Modeling for Continuous Targets Using IBM SPSS Modeler, or by experience with predictive models in IBM SPSS Modeler.

Trainingsprogramm

Course Outline

1: Preparing data for modeling Address general data quality issues Handle anomalies Select important predictors Partition the data to better evaluate models Balance the data to build better models

2: Reducing data with PCA/Factor Explain the idea behind PCA/Factor Determine the number of components/factors Explain the principle of rotating a solution

3: Creating rulesets for flag targets with Decision List Explain how Decision List builds a ruleset Use Decision List interactively Create rulesets directly with Decision List

4: Exploring advanced supervised models Explain the principles of Support Vector Machine (SVM) Explain the principles of Random Trees Explain the principles of XGBoost

5: Combining models Use the Ensemble node to combine model predictions Improve model performance by meta-level modeling

6: Finding the best supervised model Use the Auto Classifier node to find the best model for categorical targets Use the Auto Numeric node to find the best model for continuous targets

Objective

- Preparing data for modeling
- Reducing data with PCA/Factor
- Creating rulesets for flag targets with Decision List
- Exploring advanced supervised models
- Combining models
- Finding the best supervised model

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

31. Mai 2023	26. Okt 2023	5. Dez 2023

IBM 0A039G - Advanced Machine Learning Models Using IBM SPSS Modeler (V18.2)

Live Online oder Präsenz

Dauer : 8h00

Nr. : 30261

Preis : 800,00 € netto
952,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course presents advanced models available in IBM SPSS Modeler. The participant is first introduced to a technique named PCA/Factor, to reduce the number of fields to a number of core factors, referred to as components or factors. The next topics focus on supervised models, including Support Vector Machines, Random Trees, and XGBoost. Methods are reviewed on how to analyze text data, combine individual models into a single model, and how to enhance the power of IBM SPSS Modeler by adding external models, developed in Python or R, to the Modeling palette.

Wer sollte teilnehmen:

Zielgruppe

Audience

- Data scientists
- Business analysts
- Experienced users of IBM SPSS Modeler who want to learn about advanced techniques in the software

Voraussetzungen

Prerequisites

- Knowledge of your business requirements
- Required: IBM SPSS Modeler Foundations (V18.2) course (0A069G/0E069G) or equivalent knowledge of how to import, explore, and prepare data with IBM SPSS Modeler v18.2, and know the basics of modeling.
- Recommended: Introduction to Machine Learning Models Using IBM SPSS Modeler (V18.2) course (0A079G/0E079G), or equivalent knowledge or experience with the product about supervised machine learning models (CHAID, C&R Tree, Regression, Random Trees, Neural Net, XGBoost), unsupervised machine learning models (TwoStep Cluster), and association machine learning models such as APriori.

Trainingsprogramm

Course Outline

Introduction to advanced machine learning modelsTaxonomy of modelsOverview of supervised modelsOverview of models to create natural groupingsGroup fields: Factor Analysis and Principal Component AnalysisFactor Analysis basicsPrincipal Components basicsAssumptions of Factor AnalysisKey issues in Factor AnalysisImprove the interpretabilityFactor and component scoresPredict targets with Nearest Neighbor AnalysisNearest Neighbor Analysis basicsKey issues in Nearest Neighbor AnalysisAssess model fitExplore advanced supervised modelsSupport Vector Machines basicsRandom Trees basicsXGBoost basicsIntroduction to Generalized Linear ModelsGeneralized Linear ModelsAvailable distributionsAvailable link functionsCombine supervised modelsCombine models with the Ensemble nodeIdentify ensemble methods for categorical targetsIdentify ensemble methods for flag targetsIdentify ensemble methods for continuous targetsMeta-level modelingUse external machine learning modelsIBM SPSS Modeler Extension nodesUse external machine learning programs in IBM SPSS ModelerAnalyze text dataText Mining and Data ScienceText Mining applicationsModeling with text data

Objective

Introduction to advanced machine learning models Taxonomy of models Overview of supervised models Overview of models to create natural groupings

Group fields: Factor Analysis and Principal Component Analysis Factor Analysis basics Principal Components basics Assumptions of Factor Analysis Key issues in Factor Analysis Improve the interpretability Factor and component scores

Predict targets with Nearest Neighbor Analysis Nearest Neighbor Analysis basics Key issues in Nearest Neighbor Analysis Assess model fit

Explore advanced supervised models Support Vector Machines basics Random Trees basics XGBoost basics

Introduction to Generalized Linear Models Generalized Linear Models Available distributions Available link functions

Combine supervised models Combine models with the Ensemble node Identify ensemble methods for categorical targets Identify ensemble methods for flag targets Identify ensemble methods for continuous targets Meta-level modeling

Use external machine learning models IBM SPSS Modeler Extension nodes Use external machine learning programs in IBM SPSS Modeler

Analyze text data Text Mining and Data Science Text Mining applications Modeling with text data

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

1. Jun 2023	27. Okt 2023	6. Dez 2023

IBM 0A048G - Clustering and Association Modeling Using IBM SPSS Modeler (v18.1.1)

Live Online oder Präsenz

Dauer : 8h00

Nr. : 30007

Preis : 800,00 € netto
952,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

Clustering and Association Modeling Using IBM SPSS Modeler (v18.1.1) introduces modelers to two specific classes of modeling that are available in IBM SPSS Modeler: clustering and associations. Participants will explore various clustering techniques that are often employed in market segmentation studies. Participants will also explore how to create association models to find rules describing the relationships among a set of items, and how to create sequence models to find rules describing the relationships over time among a set of items.

Wer sollte teilnehmen:

Zielgruppe

Audience

Modelers, Analysts

Voraussetzungen

Prerequisites

• Experience using IBM SPSS Modeler
• A familiarity with the IBM SPSS Modeler environment: creating models, creating streams, reading in data files, and assessing data quality
• A familiarity with handling missing data (including Type and Data Audit nodes), and basic data manipulation (including Derive and Select nodes)

Trainingsprogramm

Course Outline

1: Introduction to clustering and association modeling Identify the association and clustering modeling techniques available in IBM SPSS Modeler Explore the association and clustering modeling techniques available in IBM SPSS Modeler Discuss when to use a particular technique on what type of data

2: Clustering models and K-Means clustering Identify basic clustering models in IBM SPSS Modeler Identify the basic characteristics of cluster analysis Recognize cluster validation techniques Understand K-Means clustering principles Identify the configuration of the K-means node

3: Clustering using the Kohonen network Identify the basic characteristics of the Kohonen network Understand how to configure a Kohonen node Model a Kohonen network

4: Clustering using TwoStep clustering Identify the basic characteristics of TwoStep clustering Identify the basic characteristics of TwoStep-AS clustering Model and analyze a TwoStep clustering solution

5: Use Apriori to generate association rules Identify three methods of generating association rules Use the Apriori node to build a set of association rules Interpret association rules

6: Use advanced options in Apriori Identify association modeling terms and rules Identify evaluation measures used in association modeling Identify the capabilities of the Association Rules node Model associations and generate rules using Apriori

7: Sequence detection Explore sequence detection association models Identify sequence detection methods Examine the Sequence node Interpret the sequence rules and add sequence predictions to steams

8: Advanced Sequence detection Identify advanced sequence detection options used with the Sequence node Perform in-depth sequence analysis Identify the expert options in the Sequence node Search for sequences in Web log data

A: Examine learning rate in Kohonen networks (Optional) Understand how a Kohonen neural network learns

B: Association using the Carma model (Optional) Review association rules Identify the Carma model Identify the Carma node Model associations and generate rules using Carma

Objective

- Introduction to clustering and association modeling
- Clustering models and K-Means clustering
- Clustering using the Kohonen network
- Clustering using TwoStep clustering
- Use Apriori to generate association rules
- Use advanced options in Apriori
- Sequence detection
- Advanced Sequence detection
- Examine learning rate in Kohonen networks (Optional)
- Association using the Carma model (Optional)

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

6. Jul 2023	23. Nov 2023

IBM 0A058G - Advanced Data Preparation Using IBM SPSS Modeler (v18.1.1)

Live Online oder Präsenz

Dauer : 8h00

Nr. : 30050

Preis : 800,00 € netto
952,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course covers advanced topics to aid in the preparation of data for a successful data science project. You will learn how to use functions, deal with missing values, use advanced field operations, handle sequence data, apply advanced sampling methods, and improve efficiency.

Wer sollte teilnehmen:

Zielgruppe

Audience

This advanced course is intended for anyone who wants to become familiar with the full range of techniques available in IBM SPSS Modeler for data preparation.

Voraussetzungen

Prerequisites

• Experience using IBM SPSS Modeler including familiarity with the Modeler environment, creating streams, reading data files, exploring data, setting the unit of analysis, combining datasets, deriving and reclassifying fields, and basic knowledge of modeling.
• Prior completion of the Introduction to IBM SPSS Modeler and Data Science course is recommended.

Trainingsprogramm

Course Outline

1: Using functions to cleanse and enrich dataUse date functionsUse conversion functionsUse string functionsUse statistical functionsUse missing value functions

2: Using additional field transformationsReplace values with the Filler nodeRecode continuous fields with the Binning nodeChange a field’s distribution with the Transform node

3: Working with sequence dataUse sequence functionsCount an event across recordsExpand a continuous field into a series of continuous fields with the Restructure nodeUse geospatial and time data with the Space-Time-Boxes node

4: Sampling, partitioning and balancing dataDraw simple and complex samples with the Sample nodeCreate a training set and testing set with the Partition nodeReduce or boost the number of records with the Balance node

5: Improving efficiencyUse database scalability by SQL pushbackProcess outliers and missing values with the Data Audit nodeUse the Set Globals nodeUse parametersUse looping and conditional execution

Objective

Using functions to cleanse and enrich data

Using additional field transformations

Working with sequence data

Sampling, partitioning and balancing data

Improving efficiency

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

10. Jul 2023	27. Nov 2023

IBM 0A069G - IBM SPSS Modeler Foundations (V18.2)

Live Online oder Präsenz

Dauer : 16h00

Nr. : 30375

Preis : 1.600,00 € netto
1.904,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course provides the foundations of using IBM SPSS Modeler and introduces the participant to data science. The principles and practice of data science are illustrated using the CRISP-DM methodology. The course provides training in the basics of how to import, explore, and prepare data with IBM SPSS Modeler v18.2, and introduces the student to modeling.

Wer sollte teilnehmen:

Zielgruppe

Audience

- Data scientists
- Business analysts
- Clients who are new to IBM SPSS Modeler or want to find out more about using it

Voraussetzungen

Prerequisites

- Knowledge of your business requirements

Trainingsprogramm

Course Outline

Introduction to IBM SPSS ModelerIntroduction to data scienceDescribe the CRISP-DM methodologyIntroduction to IBM SPSS ModelerBuild models and apply them to new dataCollect initial dataDescribe field storageDescribe field measurement levelImport from various data formatsExport to various data formatsUnderstand the dataAudit the dataCheck for invalid valuesTake action for invalid valuesDefine blanksSet the unit of analysisRemove duplicatesAggregate dataTransform nominal fields into flagsRestructure dataIntegrate dataAppend datasetsMerge

datasetsSample recordsTransform fieldsUse the Control Language for Expression ManipulationDerive fieldsReclassify fieldsBin fieldsFurther field transformationsUse functionsReplace field valuesTransform distributionsExamine relationshipsExamine the relationship between two categorical fieldsExamine the relationship between a categorical and continuous fieldExamine the relationship between two continuous fieldsIntroduction to modelingDescribe modeling objectivesCreate supervised modelsCreate segmentation modelsImprove efficiencyUse database scalability by SQL pushbackProcess outliers and missing values with the Data Audit nodeUse the Set Globals nodeUse parametersUse looping and conditional execution

Objective

Introduction to IBM SPSS Modeler Introduction to data science Describe the CRISP-DM methodology Introduction to IBM SPSS Modeler Build models and apply them to new data

Collect initial data Describe field storage Describe field measurement level Import from various data formats Export to various data formats

Understand the data Audit the data Check for invalid values Take action for invalid values Define blanks

Set the unit of analysis Remove duplicates Aggregate data Transform nominal fields into flags Restructure data

Integrate data Append datasets Merge datasets Sample records

Transform fields Use the Control Language for Expression Manipulation Derive fields Reclassify fields Bin fields

Further field transformations Use functions Replace field values Transform distributions

Examine relationships Examine the relationship between two categorical fields Examine the relationship between a categorical and continuous field Examine the relationship between two continuous fields

Introduction to modeling Describe modeling objectives Create supervised models Create segmentation models

Improve efficiency Use database scalability by SQL pushback Process outliers and missing values with the Data Audit node Use the Set Globals node Use parameters Use looping and conditional execution

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

24. Apr 2023 bis 25. Apr 2023	19. Jun 2023 bis 20. Jun 2023	21. Aug 2023 bis 22. Aug 2023
16. Okt 2023 bis 17. Okt 2023	11. Dez 2023 bis 12. Dez 2023	

IBM 0A079G - Introduction to Machine Learning Models Using IBM SPSS Modeler (V18.2)

Live Online oder Präsenz

Dauer : 16h00

Nr. : 30156

Preis : 1.600,00 € netto
1.904,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course provides an introduction to supervised models, unsupervised models, and association models. This is an application-oriented course and examples include predicting whether customers cancel their subscription, predicting property values, segment customers based on usage, and market basket analysis.

Wer sollte teilnehmen:

Zielgruppe

Audience

- Data scientists
- Business analysts
- Clients who want to learn about machine learning models

Voraussetzungen

Prerequisites

- Knowledge of your business requirements

Trainingsprogramm

Course Outline

Introduction to machine learning modelsTaxonomy of machine learning modelsIdentify measurement levelsTaxonomy of supervised modelsBuild and apply models in IBM SPSS ModelerSupervised models: Decision trees - CHAIDCHAID basics for categorical targetsInclude categorical and continuous predictorsCHAID basics for continuous targetsTreatment of missing valuesSupervised models: Decision trees - C&R TreeC&R Tree basics for categorical targetsInclude categorical and continuous predictorsC&R Tree basics for continuous targetsTreatment of missing

valuesEvaluation measures for supervised modelsEvaluation measures for categorical targetsEvaluation measures for continuous targetsSupervised models: Statistical models for continuous targets - Linear regressionLinear regression basicsInclude categorical predictorsTreatment of missing valuesSupervised models: Statistical models for categorical targets - Logistic regressionLogistic regression basicsInclude categorical predictorsTreatment of missing valuesSupervised models: Black box models - Neural networksNeural network basicsInclude categorical and continuous predictorsTreatment of missing valuesSupervised models: Black box models - Ensemble modelsEnsemble models basicsImprove accuracy and generalizability by boosting and baggingEnsemble the best modelsUnsupervised models: K-Means and KohonenK-Means basicsInclude categorical inputs in K-MeansTreatment of missing values in K-MeansKohonen networks basicsTreatment of missing values in KohonenUnsupervised models: TwoStep and Anomaly detectionTwoStep basicsTwoStep assumptionsFind the best segmentation model automaticallyAnomaly detection basicsTreatment of missing valuesAssociation models: AprioriApriori basicsEvaluation measuresTreatment of missing valuesAssociation models: Sequence detectionSequence detection basicsTreatment of missing valuesPreparing data for modelingExamine the quality of the dataSelect important predictorsBalance the data

Objective

Introduction to machine learning models Taxonomy of machine learning models Identify measurement levels Taxonomy of supervised models Build and apply models in IBM SPSS Modeler

Supervised models: Decision trees - CHAID CHAID basics for categorical targets Include categorical and continuous predictors CHAID basics for continuous targets Treatment of missing values

Supervised models: Decision trees - C&R Tree

C&R Tree basics for categorical targets Include categorical and continuous predictors C&R Tree basics for continuous targets Treatment of missing values

Evaluation measures for supervised models Evaluation measures for categorical targets Evaluation measures for continuous targets

Supervised models: Statistical models for continuous targets - Linear regression Linear regression basics Include categorical predictors Treatment of missing values

Supervised models: Statistical models for categorical targets - Logistic regression Logistic regression basics Include categorical predictors Treatment of missing values

Association models: Sequence detection Sequence detection basics Treatment of missing values

Supervised models: Black box models - Neural networks Neural network basics Include categorical and continuous predictors Treatment of missing values

Supervised models: Black box models - Ensemble models Ensemble models basics Improve accuracy and generalizability by boosting and bagging Ensemble the best models

Unsupervised models: K-Means and Kohonen K-Means basics Include categorical inputs in K-Means Treatment of missing values in K-Means Kohonen networks basics Treatment of missing values in Kohonen

Unsupervised models: TwoStep and Anomaly detection TwoStep basics TwoStep assumptions Find the best segmentation model automatically Anomaly detection basics Treatment of missing values

Association models: Apriori Apriori basics Evaluation measures Treatment of missing values

Preparing data for modeling Examine the quality of the data Select important predictors Balance the data

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

6. Jul 2023 bis 7. Jul 2023	23. Nov 2023 bis 24. Nov 2023

IBM 0A0U8G - Predictive Modeling for Categorical Targets Using IBM SPSS Modeler (v18.1.1)

Live Online oder Präsenz

Dauer : 8h00

Nr. : 30378

Preis : 800,00 € netto
952,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course focuses on using analytical models to predict a categorical field, such as churn, fraud, response to a mailing, pass/fail exams, and machine break-down. Students are introduced to decision trees such as CHAID and C&R Tree, traditional statistical models such as Logistic Regression, and machine learning models such as Neural Networks. Students will learn about important options in dialog boxes, how to interpret the results, and explain the major differences between the models.

Wer sollte teilnehmen:

Zielgruppe

Audience

• Analytics business users who have completed the Introduction to IBM SPSS Modeler and Data Mining course and who want to become familiar with analytical models to predict a categorical field (yes/no churn, yes/no fraud, yes/no response to a mailing, pass/fail exams, yes/no machine break-down, and so forth).

Voraussetzungen

Prerequisites

• Experience using IBM SPSS Modeler including familiarity with the Modeler environment, creating streams, reading data files, exploring data, setting the unit of analysis, combining datasets, deriving and reclassifying fields, and a basic knowledge of modeling.
• Prior completion of Introduction to IBM SPSS Modeler and Data Science (v18.1) is recommended.

Trainingsprogramm

Course Outline

1: Introduction to predictive models for categorical targetsIdentify three modeling objectivesExplain the concept of field measurement level and its implications for selecting a modeling techniqueList three types of models to predict categorical targets2: Building decision trees interactively with CHAIDExplain how CHAID grows decision treesBuild a customized model with CHAIDEvaluate a model by means of accuracy, risk, response and gainUse the model nugget to score records3: Building decision trees interactively with C&R Tree and QuestExplain how C&R Tree grows a treeExplain how Quest grows a treeBuild a customized model using C&R Tree and QuestList two differences between CHAID, C&R Tree, and Quest4: Building decision trees directlyCustomize two options in the CHAID nodeCustomize two options in the C&R Tree nodeCustomize two options in the Quest nodeCustomize two options in the C5.0 nodeUse the Analysis node and Evaluation node to evaluate and compare modelsList two differences between CHAID, C&R Tree, Quest, and C5.05: Using traditional statistical modelsExplain key concepts for DiscriminantCustomize one option in the Discriminant nodeExplain key concepts for LogisticCustomize one option in the Logistic node6: Using machine learning modelsExplain key concepts for Neural NetCustomize one option in the Neural Net node

Objective

1: Introduction to predictive models for categorical targets Identify three modeling objectives Explain the concept of field measurement level and its implications for selecting a modeling technique List three types of models to predict categorical targets

2: Building decision trees interactively with CHAID Explain how CHAID grows decision trees Build a customized model with CHAID Evaluate a model by means of accuracy, risk, response and gain Use the model nugget to score records

3: Building decision trees interactively with C&R Tree and Quest Explain how C&R Tree grows a tree Explain how Quest grows a tree Build a customized model using C&R Tree and Quest List two differences between CHAID, C&R Tree, and Quest

4: Building decision trees directly Customize two options in the CHAID node Customize two options in the C&R Tree node Customize two options in the Quest node Customize two options in the C5.0 node Use the Analysis node and Evaluation node to evaluate and compare models List two differences between CHAID, C&R Tree, Quest, and C5.0

5: Using traditional statistical models Explain key concepts for Discriminant Customize one option in the Discriminant node Explain key concepts for Logistic Customize one option in the Logistic node

6: Using machine learning models Explain key concepts for Neural Net Customize one option in the Neural Net node

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

6. Jul 2023	23. Nov 2023

IBM 0A0V8G - Predictive Modeling for Continuous Targets Using IBM SPSS Modeler (v18.1.1)

Live Online oder Präsenz

Dauer : 8h00

Nr. : 30216

Preis : 800,00 € netto
952,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course provides an overview of how to use IBM SPSS Modeler to predict a target field that describes numeric values. Students will be exposed to rule induction models such as CHAID and C&R Tree. They will also be introduced to traditional statistical models such as Linear Regression. Students are introduced to machine learning models, such as Neural Networks. Business use case examples include: predicting the length of subscription for newspapers, telecommunication, and job length, as well as predicting insurance claim amounts.

Wer sollte teilnehmen:

Zielgruppe

Audience

IBM SPSS Modeler Analysts who have completed the Introduction to IBM SPSS Modeler and Data Mining course who want to become familiar with the modeling techniques available in IBM SPSS Modeler to predict a continuous target.

Voraussetzungen

Prerequisites

• Experience using IBM SPSS Modeler including familiarity with the Modeler environment, creating streams, reading data files, exploring data, setting the unit of analysis, combining datasets, deriving and reclassifying fields, and a basic knowledge of modeling.
• Prior completion of Introduction to IBM SPSS Modeler and Data Science (v18.1.1) is recommended.

Trainingsprogramm

Course Outline

1: Introduction to predicting continuous targetsList three modeling objectivesList two business questions that involve predicting continuous targetsExplain the concept of field measurement level and its implications for selecting a modeling techniqueList three types of models to predict continuous targetsDetermine the classification model to use2: Building decision trees interactivelyExplain how CHAID grows a treeExplain how C&R Tree grows a treeBuild CHAID and C&R Tree models interactivelyEvaluate models for continuous targetsUse the model nugget to score records3: Building your tree directlyExplain the difference between CHAID and Exhaustive CHAIDExplain boosting and baggingIdentify how C&R Tree prunes decision treesList two differences between CHAID and C&R Tree4: Using traditional statistical modelsExplain key concepts for LinearCustomize options in the Linear nodeExplain key concepts for CoxCustomize options in the Cox node5: Using machine learning modelsExplain key concepts for Neural NetCustomize one option in the Neural Net node

Objective

1: Introduction to predictive models for continuous targets List three modeling objectives List two business questions that involve predicting continuous targets Explain the concept of field measurement level and its implications for selecting a modeling technique List three types of models to predict continuous targets Determine the classification model to use

2: Building decision trees interactively Explain how CHAID grows a tree Explain how C&R Tree grows a tree Build CHAID and C&R Tree models interactively Evaluate models for continuous targets Use the model nugget to score records

3: Building decision trees directly Customize two options in the CHAID node Customize two options in the C&R Tree node List one difference between CHAID and C&R Tree

4. Using traditional statistical models Explain key concepts for Linear Customize options in the Linear node Explain key concepts for Cox Customize options in the Cox node

5: Using machine learning models Explain key concepts for Neural Net Customize one option in the Neural Net node

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

7. Jul 2023	24. Nov 2023

IBM 0A108G - Introduction to IBM SPSS Modeler Text Analytics (v18.1.1)

Live Online oder Präsenz

Dauer : 16h00

Nr. : 30371

Preis : 1.600,00 € netto
1.904,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course (formerly: Introduction to IBM SPSS Text Analytics for IBM SPSS Modeler (v18)) teaches you how to analyze text data using IBM SPSS Modeler Text Analytics. You will be introduced to the complete set of steps involved in working with text data, from reading the text data to creating the final categories for additional analysis. After the final model has been created, there is an example of how to apply the model to perform churn analysis in telecommunications. Topics include how to automatically and manually create and modify categories, how to edit synonym, type, and exclude dictionaries, and how to perform Text Link Analysis and Cluster Analysis with text data. Also included are examples of how to create resource tempates and Text Analysis packages to share with other projects and other users.

Wer sollte teilnehmen:

Zielgruppe

Audience

Users of IBM SPSS Modeler responsible for building predictive models who want to leverage the full potential of classification models in IBM SPSS Modeler.

Voraussetzungen

Prerequisites

- General computer literacy
- Prior completion of Introduction to IBM SPSS Modeler and Data Science (v18.1.1) is recommended.

Trainingsprogramm

Course Outline

Unit 1 - Introduction to text miningDescribe text mining and its relationship to data miningExplain CRISP-DM methodology as it applies to text miningDescribe the steps in a text mining projectUnit 2 - An overview of text

miningDescribe the nodes that were specifically developed for text miningComplete a typical text mining modeling sessionUnit 3 - Reading text dataReading text from multiple filesReading text from Web FeedsViewing text from documents within ModelerUnit 4 - Linguistic analysis and text miningDescribe linguistic analysisDescribe Templates and LibrariesDescribe the process of text extractionDescribe Text Analysis PackagesDescribe categorization of terms and conceptsUnit 5 - Creating a text mining concept modelDevelop a text mining concept modelScore model dataCompare models based on using different Resource TemplatesMerge the results with a file containing the customer’s demographicsAnalyze model resultsUnit 6 - Reviewing types and concepts in the Interactive WorkbenchUse the Interactive WorkbenchUpdate the modeling nodeReview extracted conceptsUnit 7 - Editing linguistic resourcesDescribe the resource templateReview dictionariesReview librariesManage librariesUnit 8 - Fine tuning resourcesReview Advanced ResourcesExtracting non-linguistic entitiesAdding fuzzy grouping exceptionsForcing a word to take a particular Part of SpeechAdding non-Linguistic entitiesUnit 9 - Performing Text Link AnalysisUse Text Link Analysis interactivelyCreate categories from a patternUse the visualization paneCreate text link rulesUse the Text Link Analysis nodeUnit 10 - Clustering conceptsCreate ClustersCreating categories from cluster conceptsFine tuning Cluster Analysis settingsUnit 11 - Categorization techniquesDescribe approaches to categorizationUse Frequency Based CategorizationUse Text Analysis Packages to Categorize dataImport pre-existing categories from a Microsoft Excel fileUse Automated Categorization with Linguistic-based TechniquesUnit 12 - Creating categoriesDevelop categorization strategyFine turning the categoriesImporting pre-existing categoriesCreating a Text Analysis PackageAssess category overlapUsing a Text Analysis Package to categorize a new set of dataUsing Linguistic Categorization techniques to Creating CategoriesUnit 13 - Managing Linguistic ResourcesUse the Template EditorShare LibrariesSave resource templatesShare TemplatesDescribe local and public librariesBackup ResourcesPublishing librariesUnit 14 - Using text mining modelsExplore text mining modelsDevelop a model with quantitative and qualitative dataScore new dataAppendix A - The process of text miningExplain the steps that are involved in performing a text mining project

Objective

Please refer to course overview

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

11. Jul 2023 bis 12. Jul 2023	28. Nov 2023 bis 29. Nov 2023

IBM B6008G - Overview of IBM Cognos Analytics (v11.0)

Live Online oder Präsenz

Dauer : 8h00

Nr. : 30183

Preis : 800,00 € netto
952,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course provides participants with a high level overview of the IBM Cognos Analytics suite of products and their underlying architecture. They will examine each component as it relates to an Analytics solution. Participants will be shown a range of resources to provide additional information on each product

Wer sollte teilnehmen:

Zielgruppe

Audience

Multi-role (consumers, business authors, professional authors, developers, administrators, modelers, project managers)

Voraussetzungen

Prerequisites

- An understanding of your organization’s business intelligence process and reporting needs
- Experience using basic Windows functionality

Trainingsprogramm

Course Outline

1: IBM Cognos AnlayticsDescribe IBM Cognos AnalyticsDescribe IBM Cognos Analytics componentsDescribe IBM Cognos architecture at a high levelDescribe IBM Cognos security at a high level2: Consume content in IBM Cognos AnalyticsWhere do consumers access BI content?Use published reportsDrill through to related dataSpecify run report optionsSpecify properties of an entryAlerts and Watch Items3: Create reports in IBM Cognos AnalyticsOverview of reporting and report authoringIdentify package types, uploaded files, and data modules available for reportingExamine IBM Cognos Analytics - ReportingExamine the interfaceExplore different report typesCreate a

simple, sorted, and formatted reportCreate a report viewCreate a subscriptionCreate an Active ReportImport and report on personal data4: Create dashboards in IBM Cognos AnalyticsDescribe IBM Cognos DashboardingIdentify the IBM Cognos Dashboarding user interfaceAdd report content and tools to create dashboardsWidget-to-widget communicationFilter data in the dashboardSort, group and ungroup, and calculate data5: Create metadata models in IBM Cognos AnalyticsDefine IBM Cognos Framework Manager and its purposeDescribe the IBM Cognos Framework Manager environmen`tDescribe IBM Cognos Cube DesignerGet high-level content from Dynamic Cubes course and/or FM courseWeb-based ModelingCreate Data Modules6: Extend IBM Cognos AnalyticsIntroduction to IBM Cognos MobileKey featuresExamine Cognos Mobile architectureIdentify supported productsIntroduction to IBM Cognos BI for Microsoft OfficeDescribe Cognos Analysis for Excel (CAFÉ)7: Compare IBM Cognos Analytics and IBM Cognos BI (Optional)New features in IBM Cognos AnalyticsChanges from IBM Cognos BI to IBM Cognos AnalyticsLegacy optionExamine Event StudioExamine the role of Event Studio in Performance ManagementList the benefits of Event StudioExamine Metric StudioIdentify scorecards, metrics, and metric typesOrganize metrics with strategiesTrack initiatives with projects

Objective

Please refer to course overview

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

12. Jun 2023	31. Jul 2023	11. Sep 2023
6. Nov 2023		

IBM B6019G - IBM Cognos Analytics: Architecture and Logging (v11.0)

Live Online oder Präsenz

Dauer : 16h00

Nr. : 30033

Preis : 1.600,00 € netto
1.904,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course is designed to teach participants how to identify components and sub-components of the IBM Cognos Analytics architecture and how to use tools and techniques to provide a foundation to troubleshoot issues. Through lecture and interactive exercises participants will identify IBM Cognos Analytics components, examine how these components interact with Java, and will explore logging to assist when troubleshooting issues.

Wer sollte teilnehmen:

Zielgruppe

Audience

Administrators responsible for administering the IBM Cognos Analytics 11.0 environment

Voraussetzungen

Prerequisites

• IBM Cognos Analytics: Administration (v11.0) course or equivalent experience administering the IBM Cognos Analytics environment.

Trainingsprogramm

Course Outline

Architecture Overview1: Introduction and Service-Oriented ArchitectureIdentify IBM Cognos 11.0 architectural componentsDescribe Service-Oriented Architecture in IBM Cognos Analytics2: Explore the IBM Cognos DispatcherDescribe IBM Cognos DispatcherDescribe request routing and the routing processDescribe Content Manager Cache Service3: Examine IBM Cognos servicesIdentify IBM Cognos servicesExplore the architecture in IBM Cognos 11.04: Examine Java memory managementDescribe Java memory layoutManage Java memoryUse tools to monitor Java memory5: Examine audit logging and Indication Processing Facility loggingDescribe installation logs and

configuration logsExplore audit loggingExplore IPF logging6: Perform dye tracingIdentify dye tracing requirementsPerform dye tracing7: Explore Dynamic Query ModeExplain Dynamic Query Mode (DQM) loggingExplain IBM Cognos Dynamic Query Analyzer (DQA)8: Explore component loggingExplore component logging for Gateway, Dispatcher, Report Server, and Universal Data Access layer9: Examine additional tools and special task loggingExplore diagnostic tools and utilities for special task logging

Objective

Please refer to course overview.

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

13. Jun 2023 bis 14. Jun 2023

8. Nov 2023 bis 9. Nov 2023

IBM B6061G - IBM Cognos Analytics - Author Reports with Multidimensional Data (V11.0)

Live Online oder Präsenz

Dauer : 16h00

Nr. : 30326

Preis : 1.600,00 € netto
1.904,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course is designed to guide report authors in building on their expertise with IBM Cognos Analytics by applying dimensional techniques to reports. Through interactive demonstrations and exercises, participants will learn how to author reports that navigate and manipulate dimensional data structures using the specific dimensional functions and features available in IBM Cognos Analytics.

Wer sollte teilnehmen:

Zielgruppe

Audience

Report authors working with dimensional data sources.

Voraussetzungen

Prerequisites

• IBM Cognos Analytics: Author Reports Fundamentals (v11.0)• Knowledge of your business requirements• Knowledge of dimensional data

Trainingsprogramm

Course Outline

1. Introduction to Dimensional ConceptsIdentify different data sources and modelsInvestigate the OLAP dimensional structureIdentify dimensional data items and expressionsDifferentiate the IBM Cognos Analytics query language from SQL and MDXDifferentiate relational and dimensional report authoring styles2. Introduction to Dimensional Data in ReportsWork with membersIdentify sets and tuples in IBM Cognos Analytics3. Dimensional Report ContextUnderstand

the purpose of report contextUnderstand how data is affected by default and root members4. Focus Your Dimensional DataCompare dimensional queries to relational queriesExplain the importance of filtering dimensional queriesEvaluate different filtering techniquesFilter based on dimensions and membersFilter based on measure valuesFilter using a slicer5. Calculations and Dimensional FunctionsUse IBM Cognos Analytics dimensional functions to create sets and tuplesPerform arithmetic operations in OLAP queriesIdentify coercion errors and rules6. Functions for Navigating Dimensional HierarchiesNavigate dimensional data using family functions7. Relative FunctionsNavigate dimensional data using relative functionsNavigate dimensional data using relative time functions8. Advanced Drilling Techniques and Member SetsUnderstand default drill-up and drill-down functionalityIdentify cases when you need to override default drilling behaviorConfigure advanced drilling behavior to support sophisticated use casesDefine member sets to support advanced drillingDefine member sets to support functions9. Set Up Drill-Through ReportsNavigate from a specific report to a target reportDrill down to greater detail and then navigate to target reportNavigate between reports created using different data sources10. End-to-End WorkshopReview concepts covered throughout the course

Objective

Compare dimensional and relational data sources Understand dimensional concepts and reporting styles Create reports using dimensional data items such as members, levels, and hierarchies Focus reports using dimensional techniques such as edge filters, slicers, and filter functions Navigate dimensional data structures using functions to find related members or comparison time periods Create sophisticated measure calculations Understand totals and aggregation Analyze reports with drill-up and drill-down techniques Configure advanced drilling behavior to support complex calculations and dashboard reports Set up drill-through access from one data source to another

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

24. Apr 2023 bis 25. Apr 2023	12. Jun 2023 bis 13. Jun 2023	31. Jul 2023 bis 1. Aug 2023
25. Sep 2023 bis 26. Sep 2023	4. Dez 2023 bis 5. Dez 2023	

IBM B6063G - IBM Cognos Cube Designer - Design Dynamic Cubes (v11.0)

Live Online oder Präsenz

Dauer : 16h00

Nr. : 30092

Preis : 1.600,00 € netto
1.904,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course provides participants with introductory to advanced knowledge of how to model metadata for predictable reporting and analysis results using IBM Cognos Cube Designer. Participants will learn the full scope of the metadata modeling process, from initial project creation, to publishing a dynamic cube, and enabling end users to easily author reports and analyze data.

Wer sollte teilnehmen:

Zielgruppe

Audience

Data Modelers

Voraussetzungen

Prerequisites

• Knowledge of dimensional modeling and design. Experience using the IBM Cognos Analytics portal and Administration.

Trainingsprogramm

Course Outline

1: Introduction to IBM Cognos Dynamic CubesDefine and differentiate Dynamic CubesDynamic Cubes characteristicsExamine Dynamic Cube requirementsExamine Dynamic Cube componentsExamine high level architectureIBM Cognos Dynamic QueryReview Dimensional Data StructuresDynamic Cubes caching2: Create and design a Dynamic CubeExplore the IBM Cognos Cube DesignerReview the cube development processExamine the Automatic Cube GenerationManual development overviewCreate dimensionsModel the cubeBest practice for effective modeling3: Deploy and configure a Dynamic CubeDeploy a cubeExplore the Estimate Hardware

RequirementsIdentify cube management tasksExamine Query Service administrationExplore Dynamic Cube propertiesSchedule cube actionsUse the DCAdmin comment line tool4: Advanced Dynamic Cube modelingExamine advanced modeling conceptsExplore modeling caveatsCalculated measures and membersModel Relative TimeExplore the Current Period propertyDefine period aggregation rules for measures5:Advanced features of Cube DesignerExamine multilingual supportExamine ragged hierarchies and padding membersDefine Parent-Child DimensionsRefresh MetadataImport Framework Manager packagesFilter measures and dimensions 6: Optimize performance with aggregatesIdentify aggregates and aggregate tablesIn-memory aggregatesUse Aggregate Advisor to identify aggregatesUser defined in-memory aggregatesOptimize In-Memory Aggregates automaticallyAggregate Advisor recommendationsMonitor Dynamic Cube performanceModel aggregates (automatically vs manually)Use Slicers to define aggregation partitions7: Define SecurityOverview of Dynamic Cube securityIdentify security filtersThe Security process - Three stepsExamine security scopeIdentify scope rulesIdentify rolesCapabilities and access permissionsCube security deep dive8: Model a virtual cubeExplore virtual cubesCreate the virtual cubeExplore virtual cube objectsExamine virtual measures and calculated membersCurrency conversion using virtual cubesSecurity on virtual cubesA: Introduction to IBM Cognos Analytics (Optional)Define IBM Cognos AnalyticsRedefined Business IntelligenceSelf-serviceNavigate to content in IBM Cognos AnalyticsInteract with the user interfaceModel data with IBM Cognos AnalyticsIBM Cognos Analytics componentsCreate reportsPerform self-service with analysis and DashboardsIBM Cognos Analytics architecture (high level)IBM Cognos Analytics securityPackage / data source relationshipCreate Data modulesUpload files

Objective

Please refer to course overview

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

14. Jun 2023 bis 15. Jun 2023	6. Dez 2023 bis 7. Dez 2023

IBM B6098G - IBM Cognos Analytics - Author Active Reports (v11.0)

Live Online oder Präsenz

Dauer : 8h00

Nr. : 30219

Preis : 800,00 € netto
952,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course provides participants with an understanding of Active Report content and functionality within IBM Cognos Analytics - Reporting. Through lecture, demonstrations, and exercises, participants increase their IBM Cognos Analytics experience by building highly interactive reports using Active Report controls, which can then be distributed to and consumed by users in a disconnected environment, including on mobile devices.

Wer sollte teilnehmen:

Zielgruppe

Audience

Report authors wanting to develop interactive report content, or content disconnected from IBM Cognos servers.

Voraussetzungen

Prerequisites

- Basic understanding of IBM Cognos Analytics - Reporting

Trainingsprogramm

Course Outline

1. Introduction to IBM Cognos Active ReportsExamine IBM Cognos Active ReportsConvert an existing report into an Active ReportAdd interactions in Active Reports using Active Report connectionsCreate a basic Active ReportExamine interactive behavior of Active Report controlsSave a report in the IBM Cognos Analytics portalSave an Active Report to an MHT fileSave an Active Report as a report templateUse an Active Report as a prompt pageUnderstand Active Report security2. Use Active Report ConnectionsExamine Active Report connectionsFilter and select in controls using Active Report connectionsExamine variablesUse a single variable to control multiple controlsUse multiple variables to show different data in different controlsUse Active Report controls to support mobile device usage3. Active Report

Charts and DecksAdd charts to active reportsUnderstand and optimize chart behaviorExamine decks and data decksOptimize use of decksReview Master Detail relationshipsExamine RAVE visualizations

Objective

1. Introduction to IBM Cognos Active ReportsExamine IBM Cognos Active ReportsConvert an existing report into an Active ReportAdd interactions in Active Reports using Active Report connectionsCreate a basic Active ReportExamine interactive behavior of Active Report controlsSave a report in the IBM Cognos Analytics portalSave an Active Report to an MHT fileSave an Active Report as a report templateUse an Active Report as a prompt pageUnderstand Active Report security2. Use Active Report ConnectionsExamine Active Report connectionsFilter and select in controls using Active Report connectionsExamine variablesUse a single variable to control multiple controlsUse multiple variables to show different data in different controlsUse Active Report controls to support mobile device usage3. Active Report Charts and DecksAdd charts to active reportsUnderstand and optimize chart behaviorExamine decks and data decksOptimize use of decksReview Master Detail relationshipsExamine RAVE visualizations

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

16. Jun 2023	8. Dez 2023

IBM B6152G - IBM Cognos Framework Manager: Design Metadata Models (v11.0.x)

Live Online oder Präsenz

Dauer : 32h00

Nr. : 30332

Preis : 3.200,00 € netto
3.808,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This offering provides participants with introductory to advanced knowledge of metadata modeling concepts, and how to model metadata for predictable reporting and analysis results using Framework Manager. Participants will learn the full scope of the metadata modeling process, from initial project creation, to publishing of metadata to the web, enabling end users to easily author reports and analyze data.

Wer sollte teilnehmen:

Zielgruppe

Audience

Data Modelers

Voraussetzungen

Prerequisites

- Knowledge of common industry-standard data structures and design
- Experience with SQL
- Experience gathering requirements and analyzing data
- IBM Cognos Analytics: Author Reports Fundamentals (v11.0.x) (recommended)

Trainingsprogramm

Course Outline

Introduction to IBM Cognos Framework ManagerModel data and identifying related dataDefine requirements and modeling strategiesOverview of IBM Cognos Framework ManagerCreate a baseline projectExtend a modelPrepare reusable metadataModel for predictable results in IBM Cognos Framework ManagerIdentify query issuesIdentify

reporting trapsModel virtual star schemasUse query subjects, modify relationships, and consolidate metadata using virtual objectsCreate calculations, filter data, and customize metadata for runtimeImplement a time dimension and specify determinantsModel for presentation in IBM Cognos Framework ManagerCreate a presentation viewExamine data source query subject types and stored procedure query subject typesSpecify data security and package securitySpecify object security and dynamic data securityCreate analysis objectsManage OLAP data sourcesAdvanced capabilities in IBM Cognos Framework ManagerExplore SQL generation and the use of governorsExamine the use of IBM Cognos SQL and generated SQL for DMR dataOther query considerationsUse session parameters, prompt macros, and security macro functionsUse materialized views, minimize SQL, and enable Dynamic Query Mode (DQM)DQM, CQM, caching metadata, query processing, aggregate calculation, and other ways to improve performance

Extended capabilities in IBM Cognos Framework Manager (Optional)Perform basic maintenance and management on a modelRemap metadata to another source and import and link additional data sourcesRun scripts to automate or update a model and report on a modelSegment a project, link a project, and branch a modelNest packages and specify package languages and functionsExplore additional modeling techniques and customize metadata for a multilingual audience

Objective

Please refer to course overview

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

19. Jun 2023 bis 22. Jun 2023

7. Aug 2023 bis 10. Aug 2023

18. Sep 2023 bis 21. Sep 2023

13. Nov 2023 bis 16. Nov 2023

IBM B6155G - IBM Cognos Analytics: Enterprise Administration (v11.0.x)

Live Online oder Präsenz

Dauer : 16h00

Nr. : 30377

Preis : 1.600,00 € netto
1.904,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This offering covers the fundamental concepts of installing and configuring IBM Cognos Analytics, and administering servers and content, in a distributed environment. In the course, participants will identify requirements for the installation and configuration of a distributed IBM Cognos Analytics software environment, implement security in the environment, and manage the server components. Students will also monitor and schedule tasks, create data sources, and manage and deploy content in the portal and IBM Cognos Administration.

Wer sollte teilnehmen:

Zielgruppe

Audience

Administrators

Voraussetzungen

Prerequisites

- Knowledge of Web application server architectures
- Security systems administration
- Experience using basic Windows functionality
- Experience using a Web browser
- Knowledge of your business requirements

Trainingsprogramm

Course Outline

Introduction to IBM Cognos Analytics administrationIBM Cognos Analytics componentsAdministration workflowIBM Cognos AdministrationIBM Cognos ConfigurationIdentify IBM Cognos Analytics architectureFeatures of the IBM

Cognos Analytics architectureExamine the multi-tiered architecture, and identify logging types and filesExamine IBM Cognos Analytics servletsPerformance and installation planningBalance the request loadConfigure IBM Cognos AnalyticsSecure the IBM Cognos Analytics environmentIdentify the IBM Cognos Analytics security modelDefine authentication in IBM Cognos AnalyticsDefine authorization in IBM Cognos AnalyticsIdentify security policiesSecure the IBM Cognos Analytics environmentAdminister the IBM Cognos Analytics server environmentAdminister IBM Cognos Analytics serversMonitor system performanceManage dispatchers and servicesTune system performance, and troubleshoot the serverAudit loggingDynamic cube data source administration workflowManage run activitiesView current, past, and upcoming activitiesManage schedulesManage content in IBM Cognos AdministrationData sources and packagesManage visualizations in the libraryDeploymentOther content management tasksExamine departmental administration capabilitiesCreate and manage team membersManage activitiesCreate and manage content and dataManage system settingsManage Themes, Extensions, and ViewsShare services with multiple tenants

Objective

Please refer to course overview

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

31. Mai 2023 bis 1. Jun 2023	20. Nov 2023 bis 21. Nov 2023

IBM B6158G - IBM Cognos Analytics: Author Reports Fundamentals (v11.0.x)

Live Online oder Präsenz

Dauer : 24h00

Nr. : 30003

Preis : 2.400,00 € netto
2.856,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This offering provides Business and Professional Authors with an introduction to report building techniques using relational data models. Techniques to enhance, customize, and manage professional reports will be explored. Activities will illustrate and reinforce key concepts during this learning opportunity.

Wer sollte teilnehmen:

Zielgruppe

Audience

Report Authors

Voraussetzungen

Prerequisites

• Knowledge of your business requirements• IBM Cognos Analytics for Consumers (v11.0) WBT or equivalent knowledge

Trainingsprogramm

Course Outline

What is IBM Cognos Analytics - Reporting?Create a simple list reportCreate a report from a dimensionally modeled relational data sourceExamine personal data sources and data modulesUpload personal dataUpload custom imagesUse navigation pathsCreate a report from a personal data sourceExamine list reportsGroup data in a listFormat columns in a listInclude headers and footers in a listEnhance a list reportAggregate measure/fact dataIdentify differences in aggregationExplore data aggregationUse shared dimensions to create multi-fact

queriesCreate a multi-fact query in a list reportAdd repeated information to reportsCreate a mailing list reportCreate crosstab reportsAdd measures to a crosstabData sources for a crosstabCreate a simple crosstab reportCreate complex crosstab reportsAdd items as peersCreate crosstab nodes and crosstab membersCreate a complex crosstab reportFormat, sort, and aggregate data in a crosstabSort, format, and aggregate a crosstab reportCreate discontinuous crosstab reportsPresent unrelated items using a discontinuous crosstabCreate a visualization reportCreate and format a visualization reportCreate a report that uses a Map visualizationShow the same data graphically and numericallyFocus reports using filtersApply filters to a reportApply a detail filter on fact data in a reportApply a summary filter to a reportFocus reports using promptsCreate a prompt by adding a parameterAdd a value prompt to a reportAdd a Select & search prompt to a reportCreate a cascading promptAugment reports using calculationsAdd calculations to a reportDisplay prompt selections in the report titleCustomize reports with conditional formattingCreate a multilingual reportHighlight exceptional data and conditionally render a columnDrill-through definitionsLet users navigate to related data in IBM Cognos AnalyticsEnhance report layoutCreate a report structured on data itemsCreate a condensed list reportUse additional report building techniquesSection a report and reuse objects within the same reportReuse layout components in a different reportExplore options for reports that contain no data

Objective

What is IBM Cognos Analytics – ReportingExamine dimensionally modelled and dimensional data sourcesExamine personal data sources and data modulesExamine List reportsAggregate measure/fact dataUse shared dimensions to create multi-fact queriesAdd repeated information to reportsCreate crosstab reportsCreate complex crosstab reportsFormat, sort, and aggregate data in a crosstab reportCreate discontinuous crosstab reportsCreate Visualization reportsAdd business logic to reports using IBM Cognos Analytics – ReportingFocus reports using filtersFocus reports using promptsAugment reports using calculationsExtend report functionality in IBM Cognos Analytics - ReportingCustomize reports with conditional formattingConditionally format one crosstab measure based on anotherDrill-through definitionsEnhance the report layoutUse additional report building techniques

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

24. Apr 2023 bis 26. Apr 2023	5. Jun 2023 bis 7. Jun 2023	26. Jul 2023 bis 28. Jul 2023
18. Sep 2023 bis 20. Sep 2023	27. Nov 2023 bis 29. Nov 2023	

IBM B6159G - IBM Cognos Analytics: Author Reports Advanced (v11.0.x)

Live Online oder Präsenz

Dauer : 16h00

Nr. : 30119

Preis : 1.600,00 € netto
1.904,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This offering teaches Professional Report Authors about advanced report building techniques using relational data models, dimensional data, and ways of enhancing, customizing, managing, and distributing professional reports. The course builds on topics presented in the Fundamentals course. Activities will illustrate and reinforce key concepts during this learning activity.

Wer sollte teilnehmen:

Zielgruppe

Audience

Report Authors

Voraussetzungen

Prerequisites

• Knowledge of your business requirements• IBM Cognos Analytics for Consumers (v11.0) WBT or equivalent knowledge• IBM Cognos Analytics: Author Reports Fundamentals (v11.0.x) or equivalent knowledge

Trainingsprogramm

Course Outline

Create query modelsBuild a query and connect it to a reportAnswer a business question by referencing data in a separate query

Create reports based on query relationshipsCreate join relationships between queriesCombine data containers based on relationships from different queriesCreate a report comparing the percentage of change

Introduction to dimensional reporting conceptsExamine data sources and model typesDescribe the dimensional approach to queriesApply report authoring styles

Introduction to dimensional data in reportsUse members to create reportsIdentify sets and tuples in reportsUse query calculations and set definitions

Dimensional report contextExamine dimensional report membersExamine dimensional report measuresUse the default measure to create a summarized column in a report

Focus your dimensional dataFocus your report by excluding members of a defined setCompare the use of the filter() function to a detail filterFilter dimensional data using slicers

Calculations and dimensional functionsExamine dimensional functionsShow totals and exclude membersCreate a percent of base calculation

Create advanced dynamic reportsUse query macrosControl report output using a query macroCreate a dynamic growth reportCreate a report that displays summary data before detailed data and uses singletons to summarize information

Design effective promptsCreate a prompt that allows users to select conditional formatting valuesCreate a prompt that provides users a choice between different filtersCreate a prompt to let users choose a column sort orderCreate a prompt to let users select a display type

Examine the report specificationExamine report specification flowIdentify considerations when modifying report specificationsCustomize reporting objects

Distribute reportsBurst a report to email recipients by using a data itemBurst a list report to the IBM Cognos Analytics portal by using a burst tableBurst a crosstab report to the IBM Cognos Analytics portal by using a burst table and a master detail relationship

Enhance user interaction with HTMLCreate interactive reports using HTMLInclude additional information with tooltipsSend emails using links in a report

Introduction to IBM Cognos Active ReportsExamine Active Report controls and variablesCreate a simple Active Report using Static and Data-driven controlsChange filtering and selection behavior in a reportCreate interaction between multiple controls and variables

Active Report charts and decksCreate an Active Report with a Data deckUse Master detail relationships with DecksOptimize Active ReportsCreate an Active Report with new visualizations

Objective

Create query models Build a query and connect it to a report Answer a business question by referencing data in a separate query

Create reports based on query relationships Create join relationships between queries Combine data containers based on relationships from different queries Create a report comparing the percentage of change

Introduction to dimensional reporting concepts Examine data sources and model types Describe the dimensional approach to queries Apply report authoring styles

Introduction to dimensional data in reports Use members to create reports Identify sets and tuples in reports Use query calculations and set definitions

Dimensional report context Examine dimensional report members Examine dimensional report measures Use the default measure to create a summarized column in a report

Focus your dimensional data Focus your report by excluding members of a defined set Compare the use of the filter() function to a detail filter Filter dimensional data using slicers

Calculations and dimensional functions Examine dimensional functions Show totals and exclude members Create a percent of base calculation

Create advanced dynamic reports Use query macros Control report output using a query macro Create a dynamic growth report Create a report that displays summary data before detailed data and uses singletons to summarize information

Design effective prompts Create a prompt that allows users to select conditional formatting values Create a prompt that provides users a choice between different filters Create a prompt to let users choose a column sort order Create a prompt to let users select a display type

Examine the report specification Examine report specification flow Identify considerations when modifying report specifications Customize reporting objects

Distribute reports Burst a report to email recipients by using a data item Burst a list report to the IBM Cognos Analytics portal by using a burst table Burst a crosstab report to the IBM Cognos Analytics portal by using a burst table and a master detail relationship

Enhance user interaction with HTML Create interactive reports using HTML Include additional information with tooltips Send emails using links in a report

Introduction to IBM Cognos Active Reports Examine Active Report controls and variables Create a simple Active Report using Static and Data-driven controls Change filtering and selection behavior in a report Create interaction between multiple controls and variables

Active Report charts and decks Create an Active Report with a Data deck Use Master detail relationships with Decks Optimize Active Reports Create an Active Report with new visualizations

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

20. Apr 2023 bis 21. Apr 2023	8. Jun 2023 bis 9. Jun 2023	27. Jul 2023 bis 28. Jul 2023
21. Sep 2023 bis 22. Sep 2023	30. Nov 2023 bis 1. Dez 2023	

IBM B6252G - IBM Cognos Framework Manager: Design Metadata Models (v11.1.x)

Live Online oder Präsenz

Dauer : 32h00

Nr. : 30266

Preis : 3.200,00 € netto
3.808,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This offering provides participants with introductory to advanced knowledge of metadata modeling concepts, and how to model metadata for predictable reporting and analysis results using IBM Cognos Framework Manager. Participants will learn the full scope of the metadata modeling process, from initial project creation, to publishing of metadata to the web, enabling end users to easily author reports and analyze data.

Wer sollte teilnehmen:

Zielgruppe

Audience

Data Modelers

Voraussetzungen

Prerequisites

- Knowledge of common industry-standard data structures and design
- Experience with SQL
- Experience gathering requirements and analyzing data
- IBM Cognos Analytics: Author Reports Fundamentals (v11.1.x) (recommended)

Trainingsprogramm

Course Outline

Introduction to IBM Cognos Framework ManagerModel data and identifying related dataDefine requirements and modeling strategiesOverview of IBM Cognos Framework ManagerCreate a baseline projectExtend a modelPrepare reusable metadataModel for predictable results in IBM Cognos Framework ManagerIdentify query issuesIdentify

reporting trapsModel virtual star schemasUse query subjects, modify relationships, and consolidate metadata using virtual objectsCreate calculations, filter data, and customize metadata for runtimeImplement a time dimension and specify determinantsModel for presentation in IBM Cognos Framework ManagerCreate a presentation viewExamine data source query subject types and stored procedure query subject typesSpecify data security and package securitySpecify object security and dynamic data securityCreate analysis objectsManage OLAP data sourcesAdvanced capabilities in IBM Cognos Framework ManagerExplore SQL generation and the use of governorsExamine the use of IBM Cognos SQL and generated SQL for DMR dataOther query considerationsUse session parameters, prompt macros, and security macro functionsUse materialized views, minimize SQL, and enable Dynamic Query Mode (DQM)DQM, CQM, caching metadata, query processing, aggregate calculation, and other ways to improve performanceExtended capabilities in IBM Cognos Framework ManagerPerform basic maintenance and management on a modelRemap metadata to another source and import and link additional data sourcesRun scripts to automate or update a model and report on a modelSegment a project, link a project, and branch a modelNest packages and specify package languages and functionsExplore additional modeling techniques and customize metadata for a multilingual audience

Objective

Introduction to IBM Cognos Framework Manager Model data and identifying related data Define requirements and modeling strategies Overview of IBM Cognos Framework Manager Create a baseline project Extend a model Prepare reusable metadata

Model for predictable results in IBM Cognos Framework Manager Identify query issues Identify reporting traps Model virtual star schemas Use query subjects, modify relationships, and consolidate metadata using virtual objects Create calculations, filter data, and customize metadata for runtime Implement a time dimension and specify determinants

Model for presentation in IBM Cognos Framework Manager Create a presentation view Examine data source query subject types and stored procedure query subject types Specify data security and package security Specify object security and dynamic data security Create analysis objects Manage OLAP data sources

Advanced capabilities in IBM Cognos Framework Manager Explore SQL generation and the use of governors Examine the use of IBM Cognos SQL and generated SQL for DMR data Other query considerations Use session parameters, prompt macros, and security macro functions Use materialized views, minimize SQL, and enable Dynamic Query Mode (DQM) DQM, CQM, caching metadata, query processing, aggregate calculation, and other ways to improve performance

Extended capabilities in IBM Cognos Framework Manager Perform basic maintenance and management on a model Remap metadata to another source and import and link additional data sources Run scripts to automate or update a model and report on a model Segment a project, link a project, and branch a model Nest packages and specify package languages and functions Explore additional modeling techniques and customize metadata for a multilingual audience

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

19. Jun 2023 bis 22. Jun 2023

7. Aug 2023 bis 10. Aug 2023

18. Sep 2023 bis 21. Sep 2023

13. Nov 2023 bis 16. Nov 2023

IBM B6255G - IBM Cognos Analytics: Enterprise Administration (V11.1.x)

Live Online oder Präsenz

Dauer : 16h00

Nr. : 30192

Preis : 1.600,00 € netto
1.904,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This offering covers the fundamental concepts of installing and configuring IBM Cognos Analytics, and administering servers and content, in a distributed environment. In the course, participants will identify requirements for the installation and configuration of a distributed IBM Cognos Analytics software environment, implement security in the environment, and manage the server components. Students will also monitor and schedule tasks, create data sources, and manage and deploy content in the portal and IBM Cognos Administration.

Wer sollte teilnehmen:

Zielgruppe

Audience

Administrators

Voraussetzungen

Prerequisites

- Basic knowledge of Web application server architectures
- Basic knowledge of security systems administration
- Experience using basic Windows functionality
- Knowledge of your business requirements

Trainingsprogramm

Course Outline

Introduction to IBM Cognos Analytics administrationIBM Cognos Analytics componentsAdministration workflowIBM Cognos AdministrationIBM Cognos ConfigurationIdentify IBM Cognos Analytics architectureFeatures of the IBM Cognos Analytics architectureExamine the multi-tiered architecture, and identify logging types and filesExamine IBM

Cognos Analytics servletsPerformance and installation planningBalance the request loadConfigure IBM Cognos AnalyticsSecure the IBM Cognos Analytics environmentIdentify the IBM Cognos Analytics security modelDefine authentication in IBM Cognos AnalyticsDefine authorization in IBM Cognos AnalyticsIdentify security policiesSecure the IBM Cognos Analytics environmentAdminister the IBM Cognos Analytics server environmentAdminister IBM Cognos Analytics serversMonitor system performanceManage dispatchers and servicesTune system performance, and troubleshoot the serverAudit loggingDynamic cube data source administration workflowManage run activitiesView current, past, and upcoming activitiesManage schedulesManage content in IBM Cognos AdministrationData sources and packagesManage visualizations in the libraryDeploymentOther content management tasksExamine departmental administration capabilitiesCreate and manage team membersManage activitiesCreate and manage content and dataManage system settingsManage Themes, Extensions, and ViewsShare services with multiple tenants

Objective

Introduction to IBM Cognos Analytics administration IBM Cognos Analytics components Administration workflow IBM Cognos Administration IBM Cognos Configuration

Identify IBM Cognos Analytics architecture Features of the IBM Cognos Analytics architecture Examine the multi-tiered architecture, and identify logging types and files Examine IBM Cognos Analytics servlets Performance and installation planning Balance the request load Configure IBM Cognos Analytics

Secure the IBM Cognos Analytics environment Identify the IBM Cognos Analytics security model Define authentication in IBM Cognos Analytics Define authorization in IBM Cognos Analytics Identify security policies Secure the IBM Cognos Analytics environment

Administer the IBM Cognos Analytics server environment Administer IBM Cognos Analytics servers Monitor system performance Manage dispatchers and services Tune system performance, and troubleshoot the server Audit logging Dynamic cube data source administration workflow

Manage run activities View current, past, and upcoming activities Manage schedules

Manage content in IBM Cognos Administration Data sources and packages Manage visualizations in the library Deployment Other content management tasks

Examine departmental administration capabilities Create and manage team members Manage activities Create and manage content and data Manage system settings Manage Themes, Extensions, and Views Share services with multiple tenants

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

31. Mai 2023 bis 1. Jun 2023	20. Nov 2023 bis 21. Nov 2023

IBM B6258G - IBM Cognos Analytics: Author Reports Fundamentals (V11.1.x)

Live Online oder Präsenz

Dauer : 24h00

Nr. : 30124

Preis : 2.400,00 € netto
2.856,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course provides authors with an introduction to build reports using Cognos Analytics. Techniques to enhance, customize, and manage reports will be explored. Activities will illustrate and reinforce key concepts during this learning opportunity.

Wer sollte teilnehmen:

Zielgruppe

Audience

Authors

Voraussetzungen

Prerequisites

- Knowledge of your business requirements
- Experience using IBM Cognos Analytics as a consumer

Trainingsprogramm

Course Outline

What is IBM Cognos Analytics - Reporting?The Welcome pageConsume report contentInteractive filteringWorking with reportsDimensionally modeled relational dataUse personal data sources and data modulesUpload personal dataUpload custom imagesUsing navigation paths in a data moduleExamine list reportsGroup dataFormat columnsInclude headers and footersAggregate fact dataIdentify differences in aggregationMultiple facts and repeated informationUse shared dimensions to create multi-fact queriesPresent repeated informationAdd repeated information to reportsCreate a mailing list reportCreate crosstab reportsAdd measures to a crosstabData sources for

a crosstabCreate complex crosstab reportsAdd items as peersCreate crosstab nodes and crosstab membersWork with crosstab dataFormat, sort, and aggregate a crosstabCreate discontinuous crosstab reportsCreate visualization reportsVisualization categoriesCustomize visualizationsClient side visualizationsEnhanced map visualizationsFocus reports using filtersCreate filters to narrow the focusUse advanced detail filtersApply a filter with aggregationUse summary filtersFocus reports using promptsExamine parameters and promptsCreate a parameter for a report itemAdd a prompt pageAdd a prompt item to a reportIdentify a prompt typeCreate a cascading promptUse calculationsWhat are calculations?Add Date and Time functionsAdd string functionsDisplay prompt selections in report titlesCustomize reports with conditional formattingThree steps for conditional formattingCreate a variableAssign the variable to a report objectFormat based on the conditional valueConditionally render report objectsDrill-through definitionsNavigate to related dataEnhance report layoutView the structure of a reportUse Guided report layoutForce page breaksCreate horizontal paginationModify the report structureFormat objects across reportsUse additional report-building techniquesEnhance a report designAdd objects to reportsConvert a list to a crosstabExplore reuse

Objective

- What is IBM Cognos Analytics - Reporting?
- Dimensionally modeled relational data
- Use personal data sources and data modules
- Examine list reports
- Aggregate fact data
- Multiple facts and repeated information
- Add repeated information to reports
- Create crosstab reports
- Customize reports with conditional formatting
- Drill-through definitions
- Work with crosstab data
- Create discontinuous crosstab reports
- Create visualization reports
- Focus reports using filters
- Focus reports using prompts
- Use calculations
- Enhance report layout
- Use additional report-building techniques

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

24. Apr 2023 bis 26. Apr 2023	8. Mai 2023 bis 10. Mai 2023	5. Jun 2023 bis 7. Jun 2023
26. Jul 2023 bis 28. Jul 2023	18. Sep 2023 bis 20. Sep 2023	27. Nov 2023 bis 29. Nov 2023

IBM B6259G - IBM Cognos Analytics: Author Reports Advanced (V11.1.x)

Live Online oder Präsenz

Dauer : 16h00

Nr. : 30008

Preis : 1.600,00 € netto
1.904,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course teaches experienced authors advanced report building techniques to enhance, customize, manage, and distribute reports. Additionally, the student will learn how to create highly interactive and engaging reports that can be run offline by creating Active Reports.

Wer sollte teilnehmen:

Zielgruppe

Audience

Authors

Voraussetzungen

Prerequisites

- Knowledge of your business requirements
- Previous experience building reports with IBM Cognos Analytics V11.1.x, or you have taken the IBM Cognos Analytics: Author Reports Fundamentals (V11.1.x) course.

Trainingsprogramm

Course Outline

Create query modelsBuild a query and connect it to a reportAnswer a business question by referencing data in a separate queryCreate reports based on query relationshipsCreate join relationships between queriesCombine data containers based on relationships from different queriesCreate a report comparing the percentage of changeIntroduction to dimensional reporting conceptsExamine data sources and model typesDescribe the dimensional approach to queriesApply report authoring stylesIntroduction to dimensional data in reportsUse members to create reportsIdentify sets and tuples in reportsUse query calculations and set definitionsDimensional

report contextExamine dimensional report membersExamine dimensional report measuresUse the default measure to create a summarized column in a reportFocus your dimensional dataFocus your report by excluding members of a defined setCompare the use of the filter() function to a detail filterFilter dimensional data using slicersCalculations and dimensional functionsExamine dimensional functionsShow totals and exclude membersCreate a percent of base calculationCreate advanced dynamic reportsUse query macrosControl report output using a query macroCreate a dynamic growth reportCreate a report that displays summary data before detailed data and uses singletons to summarize informationDesign effective promptsCreate a prompt that allows users to select conditional formatting valuesCreate a prompt that provides users a choice between different filtersCreate a prompt to let users choose a column sort orderCreate a prompt to let users select a display typeExamine the report specificationExamine report specification flowIdentify considerations when modifying report specificationsCustomize reporting objectsDistribute reportsBurst a report to email recipients by using a data itemBurst a list report to the IBM Cognos Analytics portal by using a burst tableBurst a crosstab report to the IBM Cognos Analytics portal by using a burst table and a master detail relationshipEnhance user interaction with HTMLCreate interactive reports using HTMLInclude additional information with tooltipsSend emails using links in a reportIntroduction to IBM Cognos Active ReportsExamine Active Report controls and variablesCreate a simple Active Report using Static and Data-driven controlsChange filtering and selection behavior in a reportCreate interaction between multiple controls and variablesActive Report charts and decksCreate an Active Report with a DeckCreate an Active Report with 11.0 visualizations

Objective

- Create query models
- Build a query and connect it to a report
- Answer a business question by referencing data in a separate query
- Create reports based on query relationships
- Create join relationships between queries
- Combine data containers based on relationships from different queries
- Create a report comparing the percentage of change Introduction to dimensional reporting concepts
- Examine data sources and model types
- Describe the dimensional approach to queries
- Apply report authoring styles
- Introduction to dimensional data in reports
- Use members to create reports
- Identify sets and tuples in reports
- Use query calculations and set definitions
- Dimensional report context
- Examine dimensional report members
- Examine dimensional report measures
- Use the default measure to create a summarized column in a report
- Focus your dimensional data
- Focus your report by excluding members of a defined set
- Compare the use of the filter() function to a detail filter
- Filter dimensional data using slicers
- Enhance user interaction with HTML
- Create interactive reports using HTML
- Include additional information with tooltips
- Send emails using links in a report

- Calculations and dimensional functions
- Examine dimensional functions
- Show totals and exclude members
- Create a percent of base calculation

- Create advanced dynamic reports
- Use query macros
- Control report output using a query macro
- Create a dynamic growth report
- Create a report that displays summary data before detailed data and uses singletons to summarize information
- Design effective prompts
- Create a prompt that allows users to select conditional formatting values
- Create a prompt that provides users a choice between different filters
- Create a prompt to let users choose a column sort order
- Create a prompt to let users select a display type
- Examine the report specification
- Examine report specification flow
- Identify considerations when modifying report specifications
- Customize reporting objects
- Distribute reports Burst a report to email recipients by using a data item
- Burst a list report to the IBM Cognos Analytics portal by using a burst table
- Burst a crosstab report to the IBM Cognos Analytics portal by using a burst table and a master detail relationship

- Introduction to IBM Cognos Active Reports
- Examine Active Report controls and variables
- Create a simple Active Report using Static and Data-driven controls
- Change filtering and selection behavior in a report
- Create interaction between multiple controls and variables
- Active Report charts and decks
- Create an Active Report with a Deck
- Create an Active Report with 11.0 visualizations

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

20. Apr 2023 bis 21. Apr 2023	8. Jun 2023 bis 9. Jun 2023	27. Jul 2023 bis 28. Jul 2023
21. Sep 2023 bis 22. Sep 2023	30. Nov 2023 bis 1. Dez 2023	

IBM CE121G - DB2 SQL Workshop

Live Online oder Präsenz

Dauer : 16h00

Nr. : 30047

Preis : 1.600,00 € netto
1.904,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course provides an introduction to the SQL language.

This course is appropriate for customers working in all DB2 environments, that is, z/OS, VM/VSE, iSeries, Linux, UNIX, and Windows. It is also appropriate for customers working in an Informix environment.

Wer sollte teilnehmen:

Zielgruppe

Audience

This basic course is for everyone needing to write, support, or understand SQL queries. This includes but is not limited to end-users, programmers, application designers, database administrators, and system administrators who do not yet have knowledge of the SQL Data Manipulation Language (DML).

Voraussetzungen

Prerequisites

You should have:

- Basic computer literacy
- Basic editing skills

Database skills are not required.

Trainingsprogramm

Course Outline

- Introduction
- Simple SQL Queries
- Retrieving Data from Multiple Tables
- Scalar Functions and Arithmetic
- Column Functions and Grouping
- UNION and UNION ALL
- Using Subqueries
- Maintaining data

Objective

- Code SQL statements to retrieve data from a DB2 or Informix table, including the SELECT, FROM, WHERE, GROUP BY, HAVING and ORDER BY clauses
- Code inner joins and non-correlated subqueries
- Use SQL arithmetic operations
- Use scalar and column functions
- Use UNION and UNION ALL
- INSERT, UPDATE and DELETE rows
- Code simple CREATE TABLE and CREATE VIEW statements

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

5. Jul 2023 bis 6. Jul 2023	16. Okt 2023 bis 17. Okt 2023	8. Nov 2023 bis 10. Nov 2023

IBM CE131G - DB2 SQL Workshop for Experienced Users

Live Online oder Präsenz

Dauer : 20h00

Nr. : 30353

Preis : 2.400,00 € netto
2.856,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course teaches you how to make use of advanced SQL techniques to access DB2 databases in different environments. This course is appropriate for customers working in all DB2 environments, specifically for z/OS, Linux, UNIX, and Windows.

Wer sollte teilnehmen:

Zielgruppe

Audience

This intermediate course is for experienced SQL end users, application programmers, database administrators, and user support staff who need more advanced knowledge of SQL.

Voraussetzungen

Prerequisites

You should have experience with:

- coding and executing basic SQL statements.

These skills can be developed by attending

- SQL Workshop (CE120), or equivalent experience.

Trainingsprogramm

Course Outline

Introduction

- Identify the purpose of the clauses in the SELECT statement
- Describe the key differences among the IBM DB2 platforms
- Describe and use some of the OLAP features of DB2, such as GROUPING functions like CUBE and ROLLUP, and the RANK, DENSE_RANK and ROW_NUMBER functions

Create Objects

- Code statements to: Create tables and views, Alter tables, Create indexes, Implement referential integrity (RI), and Define triggers and check constraints
- Identify impacts and advantages of referential integrity, including impacts of delete rules
- Identify considerations when using triggers and check constraints
- Define and make use of INSTEAD OF triggers

Join

- Retrieve data from more than one table via inner and outer joins
- Use outer joins (LEFT, RIGHT, FULL)
- Use ANTI JOINS
- Join a table to itself
- Use UNION and UNION ALL
- Use EXCEPT and INTERCEPT

CASE, CAST, Summary Tables, and Materialized Query Tables

- Identify when CASE expressions can be used
- Code CASE expressions in SELECT list and in the WHERE clause
- Identify when CAST specifications can be used
- Identify the advantages of using Summary (Materialized Query) Tables and Temporary tables
- Identify the advantages of using Materialized Query Tables (MQTs)
  - Identify when and how to use Temporary tables

Using Subqueries

- Code subqueries using the ALL, ANY/SOME, and EXISTS keywords
- Code correlated subqueries
- Choose the proper type of subquery to use in each case

Scalar Functions

- Extend your knowledge of scalar functions which: Manipulate arithmetic data, Manipulate date values, and Manipulate character data
- Examples of scalar functions that are addressed in this course:
  - SUBSTR
  - POSSTR
  - COALESCE/VALUE
  - DECIMAL
  - ROUND
  - DIGITS
  - CHAR
  - DATE/TIME

Table Expressions and Recursive SQL

- Identify reasons for using table expressions and recursive SQL
- Use nested and common table expressions

- Identify the difference between views and table expressions
- Code recursive SQL
- Control the depth of recursion when coding recursive SQL

UDTs/UDFs and Performance

- Describe the concepts behind User-Defined Types, User-Defined Functions and Stored Procedures
- Predict when queries will use indexes to get better performance
- Identify concepts of predicate processing
- State introductory concepts about index structure
- State general best practices advice

Objective

- Discuss basic relational database concepts
- Use some of the OLAP features of DB2, such as GROUPing and RANKing functions
- Create tables, views and indexes
- Use referential integrity, check constraints and triggers
- Use outer joins, and join tables to themselves
- Use CASE expressions, and the CAST function
- Identify the impact of Summary Tables, Materialized Query Tables, and temporary tables
- Use complex subqueries
- Use a greater number of scalar SQL functions
- Use advanced SQL constructs, such as recursive SQL and table expressions
- Define User-Defined Distinct Types and User-Defined Functions
- Avoid several of the most common causes for poorly-performing SQL

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

10. Jul 2023 bis 12. Jul 2023	9. Okt 2023 bis 11. Okt 2023

IBM CL207G - Db2 11.1 Administration Workshop for Linux

Live Online oder Präsenz

Dauer : 32h00

Nr. : 30248

Preis : 3.200,00 € netto
3.808,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course teaches database administrators to perform basic database administrative tasks using Db2 11.1. These tasks include creating database objects like tables, indexes and views, and loading data into the database with Db2 utilities like LOAD and INGEST. Various diagnostic methods will be presented, including using db2pd command options, and monitoring with SQL statements that reference Db2 monitor functions. Students will learn how to implement automatic archival for database logs and how to recover a database to a specific point in time using the archived logs. The course covers using EXPLAIN tools to review the access plans for SQL statements and adding indexes to improve SQL performance. We will cover the locking performed by Db2 and the effect the application isolation level has on locking and lock wait conditions. Students will learn how to implement database security, including adding a security administrator, SECADM user, and implement database roles to simplify security management. We will also describe implementing Db2 native encryption for a database.

Wer sollte teilnehmen:

Zielgruppe

Audience

This is an intermediate level course for students that will perform Database Administration tasks, who plan, implement, and maintain D22 11.1 databases.

Voraussetzungen

Prerequisites

- Perform basic database administration tasks on a relational database system
- Use basic OS functions such as utilities, file permissions, hierarchical file system, commands, and editor
- State the functions of the Structured Query Language (SQL) and be able to construct DDL, DML, and authorization statements
- Discuss basic relational database concepts and objects such as tables, indexes, views, and joins

These skills can be developed by taking:

- DB2 SQL Workshop
- DB2 Fundamentals

Trainingsprogramm

Course Outline

Overview of Db2 11.1Db2 Command Line Processor (CLP) and GUI toolsThe Db2 database manager instanceCreating Databases and Data PlacementCreating Database ObjectsMoving DataBackup and RecoveryDatabase Maintenance, Monitoring and Problem DeterminationLocking and concurrencySecurity

Objective

Please refer to course overview

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

3. Apr 2023 bis 6. Apr 2023	6. Jun 2023 bis 9. Jun 2023	3. Jul 2023 bis 6. Jul 2023
31. Okt 2023 bis 3. Nov 2023		

IBM CL451G - DB2 11 BLU Acceleration Implementation and Use

Live Online oder Präsenz

Dauer : 16h00

Nr. : 30104

Preis : 1.600,00 € netto
1.904,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

The course is intended for Data Administrators that need to prepare for using the DB2 BLU Acceleration facilities of DB2 11.1 for Linux, UNIX and Windows systems.
The concepts and facilities of the BLU Acceleration feature of DB2 11 are presented including loading data into column-organized tables and monitoring the processing of SQL statements that access the tables.
The DB2 10.5 Fix Pack 4, referred to as Cancun, added support for Shadow tables, a new type of Materialized Query Table, and also Column-organized User Maintained MQT tables. One lecture unit describes these features. A demonstration allows students to implement and experiment with these functions.
With DB2 11.1, BLU Acceleration can be used in a clustered multiple database partition DB2 environment. This course includes a lecture and demonstration that allows students to create a set of column-organized tables from an existing set of row-organized tables and execute and analyze the performance of BLU Acceleration in a MPP database.
The lab demonstrations are performed using DB2 LUW 11.1 for Linux.

Wer sollte teilnehmen:

Zielgruppe

Audience

This is an advanced course for DB2 LUW experienced database administrators who support DB2 for UNIX, Windows, and Linux databases and want to learn more about the DB2 with BLU acceleration capabilities in DB2 11.1. These skills can also be utilized to support cloud based databases using DB2 on Cloud or IBM dashDB.

Voraussetzungen

Prerequisites

Participants should have completed one of the following courses:
o DB2 11.1 Administration Workshop for Linux (CL206)
o DB2 11.1 Quickstart for Experienced Relational DBAs (CL486)

Trainingsprogramm

Course Outline

Topics Covered:BLU Acceleration ConceptsBLU Acceleration Implementation and UseImplementing Shadow Tables and BLU MQTsDB2 BLU MPP support

Objective

Please refer to course overview

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

12. Jul 2023 bis 13. Jul 2023	6. Dez 2023 bis 7. Dez 2023

IBM CL464G - Db2 11.1 Advanced Database Administration

Live Online oder Präsenz

Dauer : 16h00

Nr. : 30397

Preis : 1.600,00 € netto
1.904,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course is designed to teach you how to:
• Perform advanced monitoring using the Db2 administrative views and routines in SQL queries.
• Manage the disk space assigned in Database Managed Storage (DMS) and Automatic Storage table spaces, including the activities of the rebalancer.
• Use SQL queries and Db2 commands to check the high water mark on table spaces and to monitor the rebalance operation.
• Utilize the REBUILD option of RESTORE, which can build a database copy with a subset of the tablespaces using database or tablespace backup images.
• Plan and execute the TRANSPORT option of RESTORE to copy schemas of objects between two Db2 databases.
• Create incremental database or tablespace level backups to reduce backup processing and backup image storage requirements.
• Implement automatic storage management for table spaces and storage groups or enable automatic resize options for DMS managed table spaces to reduce administration requirements and complexity.
• Describe the various types of database memory including buffer pools, sort memory, lock memory and utility processing memory.
• Adjust database or Db2 instance configuration options to improve application performance or processing efficiency.
• Implement Db2 Self Tuning Memory management for specific database memory areas.

Wer sollte teilnehmen:

Zielgruppe

Audience

This is an advanced course for DBAs and technical individuals who plan, implement, and maintain Db2 11.1 databases

Voraussetzungen

Prerequisites

- Perform basic database administration tasks for a Db2 database server, including using Db2 commands like BACKUP and RESTORE
- Utilize Structured Query Language (SQL) and be able to construct DDL, DML, and authorization statements
- These skills can be developed by taking:
  - CL207 Db2 11.1 Administration Workshop for Linux

Trainingsprogramm

Course Outline

Advanced MonitoringDb2 Table Space ManagementDb2 Database Memory ManagementDatabase rebuild supportDb2 database and tablespace relocationDb2 Incremental Backup

Objective

Please refer to course overview

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

17. Jul 2023 bis 18. Jul 2023	27. Nov 2023 bis 28. Nov 2023

IBM CL487G - Db2 11.1 Quickstart for Experienced Relational DBAs

Live Online oder Präsenz

Dauer : 32h00

Nr. : 30312

Preis : 3.200,00 € netto
3.808,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course teaches you to perform, basic and advanced, database administrative tasks using Db2 11.1. These tasks include creating and populating databases and implementing a logical design to support recovery requirements. The access strategies selected by the Db2 Optimizer will be examined using the Db2 Explain tools. Various diagnostic methods will be presented, including using various db2pd command options. Students will learn how to implement automatic archival for database logs and how to plan a redirected database restore to relocate either selected table spaces or an entire database. The REBUILD option of RESTORE, which can build a database copy with a subset of the tablespaces, will be discussed. We will also cover using the TRANSPORT option of RESTORE to copy schemas of objects between two Db2 databases. The selection of indexes to improve application performance and the use of SQL statements to track database performance and health will be covered. This course provides a quick start to Db2 database administration skills for experienced relational Database Administrators (DBA).

The lab demonstrations are performed using DB2 LUW 11.1 for Linux. For some lab tasks, students will have the option to complete the task using a DB2 command line processor, or using the graphical interface provided by IBM Data Server Manager.

Wer sollte teilnehmen:

Zielgruppe

Audience

This is an intermediate course for experienced DBAs and technical individuals, with experience on other relational database platforms, who plan, implement, and maintain Db2 11.1 for Linux, UNIX, and Windows databases. These skills can also be utilize to support cloud based databases using Db2 on Cloud or Db2 Hosted environments.

Voraussetzungen

Prerequisites

Participants should have the following skills:
o Perform basic database administration tasks on a relational database system

o Use basic OS functions such as utilities, file permissions, hierarchical file system, commands, and editor
o State the functions of the Structured Query Language (SQL) and be able to construct DDL, DML, and authorization statements
o Discuss basic relational database concepts and objects such as tables, indexes, views, and joins
o These skills can be developed by taking:
- DB2 SQL Workshop
- DB2 Fundamentals

Trainingsprogramm

Course Outline

Topics Covered:Overview of Db2 11Command Line Processor (CLP) and GUI UsageThe Db2 EnvironmentCreating Databases and Data PlacementCreating Database ObjectsMoving DataBackup and RecoveryLocks and ConcurrencyDatabase Maintenance, Monitoring and Problem DeterminationSecurityDatabase Rebuild SupportDb2 Database and Table Space RelocationUsing Explain ToolsUsing Indexes for PerformanceAdvanced Monitoring

Objective

Please refer to course overview

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

25. Jul 2023 bis 28. Jul 2023	31. Okt 2023 bis 3. Nov 2023

IBM CL810G - Db2 11.1 HADR Workshop

Live Online oder Präsenz

Dauer : 8h00

Nr. : 30100

Preis : 800,00 € netto
952,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course teaches database administrators how to plan, implement and manage Db2 11.1 databases using the High Availability Disaster Recovery HADR) feature. The lectures cover the processing performed for a Db2 Primary and Standby Db2 database. The Db2 database configuration options that define and control the HADR function are covered. The option to define and operate multiple HADR standby databases will be explained. The course also covers the special considerations for allowing read only access by applications to a HADR Standby database. Students will learn the Db2 commands like TAKEOVER, START HADR and STOP HADR that are used to control HADR primary and standby database activity. The monitoring for HADR status of the primary and standby databases using the db2pd commands will be presented. The course also presents usage of HADR with Db2 pureScale databases.

Wer sollte teilnehmen:

Zielgruppe

Audience

• This course is intended for students that will manage Db2 11.1 databases using the High Availability Disaster Recovery feature.

Voraussetzungen

Prerequisites

- A working knowledge of Db2 11.1 database server management including backup and recovery operations, Db2 utility execution and database monitoring with db2pd commands.
- Use basic Linux OS functions such as file management, file permissions, and text file editing.
- These skills can be developed by taking:
  - CL207 Db2 11.1 Administration Workshop for Linux or
  - CL487 Db2 11.1 quickstart for experienced relational DBAs

Trainingsprogramm

Course Outline

Db2 HADR Concepts and implementationDb2 HADR Standby database managementDb2 HADR for pureScale

Objective

Please refer to course overview

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

3. Aug 2023	9. Nov 2023

IBM CV021G - Introduction to DB2 for zOS for Systems and Operations Personnel

Live Online oder Präsenz

Dauer : 24h00

Nr. : 30370

Preis : 2.400,00 € netto
2.856,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

DB2 11 for z/OS beginning DBAs can develop fundamental skills or recognition through lectures and hands-on exercises of:

- DB2 Objects
- Structured Query Language
- DB2 Commands
- DB2 Utilities
- DB2 Logging
- DB2 Program Preparation

The course materials cover DB2 11 for z/OS.

Wer sollte teilnehmen:

Zielgruppe

Audience

This course is for beginning DB2 for z/OS database administrators who need to acquire the basic skills required to administer a DB2 database in a z/OS environment.

Voraussetzungen

Prerequisites

You should have a working knowledge of

- z/OS, TSO, ISPF, and SDSF
- sequential, partitioned, and VSAM data sets
- and basic JCL

Trainingsprogramm

Course Outline

CONTENTS:

z/OS Prequisite Review

DB2 Relational Database Concepts

Structured Query Language (SQL) and SPUFI

DB2 Objects

The DB2 System

DB2 Commands and Program Preparation

DB2 Utilities

DB2 Shutdown, Startup, and Recovery

Course Summary

AGENDA:

Day 1

- (00:15) Welcome
- (00:30) Unit 1: z/OS Prerequisite Review
- (00:10) Exercise 1: Connecting to z/OS and Creating Data Sets
- (00:05) Exercise 1 Review
- (01:15) Unit 2: DB2 Relational Database Concepts
- (01:15) Unit 3: Structured Query Language (SQL) and SPUFI
- (00:45) Exercise 2: SQL and SPUFI
- (00:15) Exercise 2 Review
- (01:30) Unit 4: DB2 Objects (Databases and Table Spaces)
- (00:45) Exercise 3: Databases and Table Spaces
- (00:15) Exercise 3 Review
- (01:30) Unit 4: DB2 Objects (Tables, Indexes, and Views)

Day 2

- (00:45) Exercise 4: Tables, Indexes, and Views
- (00:15) Exercise 4 Review
- (01:00) Unit 4: DB2 Objects (Qualified Names, Implicit Object Creation, and SQL Statements)
- (00:30) Exercise 5: Qualified Names, Implicit Object Creation, and SQL Statements
- (00:15) Exercise 5 Review
- (01:30) Unit 5: The DB2 System
- (00:45) Exercise 6: The DB2 System
- (00:15) Exercise 6 Review
- (02:00) Unit 6: DB2 Commands and Program Preparation

Day 3

- (00:45) Exercise 7: DB2 Commands
- (00:15) Exercise 7 Review
- (02:00) Unit 7: DB2 Utilities
- (01:00) Exercise 8: DB2 Utilities
- (00:15) Exercise 8 Review
- (01:15) Unit 8: DB2 Shutdown, Startup, and Recovery
- (00:45) Exercise 9: DB2 Recovery
- (00:15) Exercise 9 Review
- (00:30) Unit 9: Course Summary

Objective

- Give an overview of the DB2 9 environment
- Describe and utilize DB2 Objects
- Describe and utilize several DB2 Utilities
- Describe the DB2I (DB2 Interactive Facility) environment
- Use SPUFI (SQL Processing Using File Input) to compose and execute SQL
- Setup and execute DB2 Commands
- Understand DB2 Logging
- Describe DB2 program preparation process
- Understand DB2 startup and shutdown
- Understand and utilize DB2 recovery strategies

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

26. Apr 2023 bis 28. Apr 2023

14. Jun 2023 bis 16. Jun 2023
Garantietermin

9. Aug 2023 bis 11. Aug 2023

15. Nov 2023 bis 17. Nov 2023

IBM CV041G - z/OS and DB2 Basics for DB2 for z/OS DBA Beginners

Live Online oder Präsenz

Dauer : 40h00

Nr. : 30020

Preis : 4.000,00 € netto
4.760,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

DB2 11 for z/OS beginning DBAs can develop fundamental skills or recognition through lectures and hands-on exercises of:

- TSO/E and ISPF
- Data sets
- DB2 Objects
- Structured Query Language
- DB2 Commands
- JCL and SDSF
- DB2 Utilities
- DB2 Logging
- DB2 Program Preparation

The course materials cover DB2 11 for z/OS.

Wer sollte teilnehmen:

Zielgruppe

Audience

This beginning DB2 basic course is for z/OS database administrators who need to acquire the basic skills required to administer a DB2 database in a z/OS environment.

Voraussetzungen

Prerequisites

There are no formal prerequisites for this course.

Trainingsprogramm

Course Outline

CONTENTS :

- Introduction
- TSO/E and ISPF
- Data Sets
- JCL and SDSF
- DB2 Relational Database Concepts
- Structured Query Language (SQL) and SPUFI
- DB2 Objects
- The DB2 System
- DB2 Commands and Program Preparation
- DB2 Utilities
- DB2 Shutdown, Startup, and Recovery
- Course Summary

AGENDA :

Day 1

- (00:30) Welcome
- (01:00) Unit 1: Introduction
- (01:30) Unit 2: TSO/E and ISPF
- (01:00) Exercise 1: TSO and ISPF
- (00:15) Exercise 1 Review
- (01:00) Unit 3: Data Sets (Data Sets and Sequential Data Sets)
- (01:00) Exercise 2: Sequential Data Sets
- (00:15) Exercise 2 Review

Day 2

- (01:00) Unit 3: Data Sets (Partitioned Data Sets)
- (01:00) Exercise 3: Partitioned Data Sets
- (00:15) Exercise 3 Review
- (00:45) Unit 3: Data Sets (VSAM Data Sets)
- (00:30) Exercise 4: VSAM Data Sets
- (00:15) Exercise 4 Review
- (01:30) Unit 4: JCL and SDSF
- (01:30) Exercise 5: JCL and SDSF
- (00:15) Exercise 5 Review

Day 3

- (01:15) Unit 5: DB2 Relational Database Concepts
- (01:15) Unit 6: Structured Query Language (SQL) and SPUFI
- (00:45) Exercise 6: SQL and SPUFI
- (00:15) Exercise 6 Review
- (01:30) Unit 7: DB2 Objects (Databases and Table Spaces)
- (00:45) Exercise 7: Databases and Table Spaces
- (00:15) Exercise 7 Review

- (01:30) Unit 7: DB2 Objects (Tables, Indexes, and Views)
- (00:45) Exercise 8: Tables, Indexes, and Views
- (00:15) Exercise 8 Review

Day 4

- (01:00) Unit 7: DB2 Objects (Qualified Names, Implicit Object Creation, and SQL Statements)
- (00:30) Exercise 9: Qualified Names, Implicit Object Creation, and SQL Statements
- (00:15) Exercise 9 Review
- (01:30) Unit 8: The DB2 System
- (00:45) Exercise 10: The DB2 System
- (00:15) Exercise 10 Review
- (02:00) Unit 9: DB2 Commands and Program Preparation
- (00:45) Exercise 11: DB2 Commands
- (00:15) Exercise 11 Review

Day 5

- (02:00) Unit 10: DB2 Utilities
- (01:00) Exercise 12: DB2 Utilities
- (00:15) Exercise 12 Review
- (01:15) Unit 11: DB2 Shutdown, Startup, and Recovery
- (00:45) Exercise 13: DB2 Recovery
- (00:15) Exercise 13 Review
- (00:30) Unit 12: Course Summary

Objective

- Describe several services provided in a z/OS environment
- Explain workloads in the batch environment
- Explain workloads in the online environment
- Describe job roles in a z/OS environment
- Log On to TSO/E
- Navigate TSO/E and ISPF
- Use TSO commands
- Setup and utilize JCL (Job Control Language)
- Utilize SDSF
- Describe the different types of data sets in a z/OS environment
- Allocate data sets and list data set information and content
- Create and modify data set content
- Give an overview of the DB2 9 environment
- Describe and utilize DB2 Objects
- Describe and utilize several DB2 Utilities
- Describe the DB2I (DB2 Interactive Facility) environment
- Use SPUFI (SQL Processing Using File Input) to compose and execute SQL
- Setup and execute DB2 Commands
- Understand DB2 Logging
- Describe DB2 program preparation process
- Understand DB2 startup and shutdown
- Understand and utilize DB2 recovery strategies

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

24. Apr 2023 bis 28. Apr 2023	12. Jun 2023 bis 16. Jun 2023	14. Aug 2023 bis 18. Aug 2023
9. Okt 2023 bis 13. Okt 2023	20. Nov 2023 bis 24. Nov 2023	

IBM CV320G - New Functions and Features in DB2 11 for zOS

Live Online oder Präsenz

Dauer : 24h00

Nr. : 30215

Preis : 2.400,00 € netto
2.856,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

Learn about the new features and enhancements of DB2 11 for z/OS, including the technical detail of the functional enhancements of this significant new version of DB2 for z/OS.

Note: This course shall be made available a unit at a time. If you wish to receive training on this new version of DB2 11 for z/OS, contact your training provider to request a class containing the latest content.

Wer sollte teilnehmen:

Zielgruppe

Audience

This is an intermediate course for system and database administrators, application developers, and other individuals who need a technical introduction to selected new features of DB2 11 for z/OS.

Voraussetzungen

Prerequisites

You should have practical experience with DB2 for z/OS and have good knowledge of the functions and usage of DB2 10 for z/OS.

Trainingsprogramm

Course Outline

- Availability
- SQL
- Security
- Data Sharing

- Utilities
- Application Enablement
- Connectivity and Administration Routines
- XML
- Performance
- Scalabiity
- Installation and Migration

Objective

- Describe selected new features and enhancements of DB2 11 for z/OS
- Evaluate the usefulness of the new features and enhancements of DB2 11 for z/OS

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

5. Jun 2023 bis 7. Jun 2023	6. Nov 2023 bis 8. Nov 2023

IBM CV722G - DB2 11 for z/OS Application Programming Workshop

Live Online oder Präsenz

Dauer : 24h00

Nr. : 30139

Preis : 2.400,00 € netto
2.856,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course enables you to acquire the skills necessary to produce application programs that manipulate DB2 databases.

Emphasis is on embedding Structured Query Language (SQL) statements and preparing programs for execution.

Wer sollte teilnehmen:

Zielgruppe

Audience

This intermediate course is for application programmers who need to write embedded SQL programs in COBOL or PL/I (on z/OS).

Voraussetzungen

Prerequisites

You should already have experience with one of the supported programming languages, COBOL or PL/I for z/OS. You are also expected to already be able to construct and use SQL statements.

Trainingsprogramm

Course Outline

- DB2 Concepts
- Program Structure I
- Program Preparation
- Program Structure II
- Recovery and Locking Concepts
- Dynamic SQL Introduction

- Managing Test Data
- Performance Considerations

Objective

- Incorporate static SQL statements in an application program
- Prepare the program for execution
- Validate execution results are correct
- Produce code to support multiple rows being returned from the database manager using cursors
- Identify considerations regarding units of work, concurrency, and restart of programs
- Identify differences between static and dynamic SQL
- Provide test data for applications
- Discuss program and DB2 options relative to performance of static SQL

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

19. Apr 2023 bis 21. Apr 2023	12. Jun 2023 bis 14. Jun 2023	9. Aug 2023 bis 11. Aug 2023
3. Okt 2023 bis 5. Okt 2023	6. Nov 2023 bis 8. Nov 2023	

IBM CV832G - DB2 11 for z/OS Database Administration Workshop Part 1

Live Online oder Präsenz

Dauer : 40h00

Nr. : 30306

Preis : 4.000,00 € netto
4.760,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course provides you with instruction on how to physically implement a logical database design in DB2. The course includes instruction on DB2 data management, DB2 catalog tables, the bind process, database utilities such as LOAD and REORG, and security considerations.

Note: This course material is at the DB2 11 for z/OS level.

Wer sollte teilnehmen:

Zielgruppe

Audience

This intermediate course is for future DB2 for z/OS database administrators who need to acquire the basic skills required to administer a DB2 database.

Voraussetzungen

Prerequisites

You should be able to:

- Design a relational table
- Describe the SQL data manipulation statements to access and change the contents of DB2 tables

You should also take DB2 Family Fundamentals (CE031G) and DB2 SQL Workshop (CE121G), or have equivalent experience.

Trainingsprogramm

Course Outline

- Setting up a DB2 database
- Referential integrity
- Getting data into and out of DB2
- Keeping your DB2 data in good shape
- Application data recovery basics
- Program preparation and Bind
- Security
- Serialization

The course includes extensive machine exercises.

Objective

- Implement a DB2 database design
- Use database utilities to load and reorganize data
- Define and implement a DB2 database recovery strategy
- Control access to database using DB2 authorization facilities

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

2. Mai 2023 bis 5. Mai 2023	19. Jun 2023 bis 23. Jun 2023	21. Aug 2023 bis 25. Aug 2023
16. Okt 2023 bis 20. Okt 2023	27. Nov 2023 bis 1. Dez 2023	

IBM CV842G - DB2 10 for z/OS Database Administration Part 2

Live Online oder Präsenz

Dauer : 24h00

Nr. : 30325

Preis : 2.400,00 € netto
2.856,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course is a continuation of course *DB2 10 for z/OS Database Administration Workshop Part 1 (CV831)* and is designed to teach you how to perform additional database administration tasks.

This course replaces *DB2 for z/OS Database Administration Workshop Part 2 (CV841*). This is the Classroom version of Instructor-led online course *DB2 10 for z/OS Database Administration Part 2 - ILO (3V842)*.

Wer sollte teilnehmen:

Zielgruppe

Audience

This intermediate course is for Database Administrators and System Programmers who would like to get insight into database administration tasks. The course lab exercises are performed on a DB2 10 for z/OS environment.

Voraussetzungen

Prerequisites

You should have attended course:

- DB2 10 for z/OS Database Administration Workshop Part 1 (CV831)

or have attained a similar level of experience.

Trainingsprogramm

Course Outline

Day 1

- Welcome
- Unit 1: Transition from DB2 9 for z/OS Database Administration Workshop Part 1 (CV830) to DB2 for z/OS Database Administration Workshop Part 2 (CV841)
- Unit 2: Program Preparation and Use of Packages
- Exercise 1: Program Preparation
- Unit 3: Online Schema Changes
- Exercise 2: Online Schema Changes

Day 2

- Unit 4: Clone Tables
- Exercise 3: Clone Tables
- Unit 5: Partition Management
- Exercise 4: Partition Management
- Unit 6: UDTs and UDFs
- Exercise 5: UDTs and UDFs

Day 3

- Unit 7: Stored Procedures
- Exercise 6: Stored Procedures
- Unit 8: Triggers
- Exercise 7: Triggers
- Unit 9: Large Objects
- Exercise 8: LOBs

Objective

- Execute program preparation steps including resolving common problems, defining collections and packages, and versioning of packages
- Alter table characteristics such as data types of columns and identify the impact of making such changes
- Alter indexes to add columns or to change the varying length or clustering characteristics of the index, and identify the impact of making such changes
- React to the Advisory Reorg Database Exception Table state
- Make appropriate decisions to successfully handle table space versions
- Given the usage of the data, determine an appropriate option for dealing with the need for adding partitions or rebalancing data partitions
- Determine the applicability and implement clone tables, user-defined distinct types, user-defined functions, stored procedures, triggers, and large objects

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

26. Jun 2023 bis 28. Jun 2023	4. Dez 2023 bis 6. Dez 2023

IBM CV843G - DB2 11 for zOS Database Administration Workshop Part 2

Live Online oder Präsenz

Dauer : 24h00

Nr. : 30012

Preis : 2.400,00 € netto
2.856,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course teaches database administrators various features they must be familiar with as DB2 11 for z/OS Database Administrators. These include program preparation, online schema changes, user defined functions, archive-enabled and temporal tables, partition management, stored procedures, and triggers. The course includes many hands-on demonstrations which give the students experience with the included topics. Additionally, there is information on other features in the course appendices, including schemas and user defined data types, clone tables, materialized query tables, large objects, global variables, and row permissions and column masks. This course is a follow-on course to CV832 – IBM DB2 11 for z/OS Database Administration Workshop Part 1. Note: This course is 3 days in length. If the instructor has time, he can cover the optional appendices as desired.

Wer sollte teilnehmen:

Zielgruppe

Audience

Database Administrators and System Programmers who would like to get further insight into database administration tasks.

Voraussetzungen

Prerequisites

DB2 11 for z/OS Database Administration Part 1 (CV832) or equivalent experience or knowledge.

Trainingsprogramm

Course Outline

1: Program preparation and the use of packages part 1Go through the program preparation steps and execute programs in the DB2 environment using the TSO Attachment FacilityResolve some of the most commonly occurring

problems, for example SQL error -805Understand the importance of collections and packagesUnderstand how to access different tables and views at execution time without changing the program2: Online schema changes part 1Discuss immediate, online schema changesChange data types and lengths of columnsRename indexesAdd columns to indexesRelate implications of renaming a column in a table or renaming an indexDescribe versioning3: Online schema changes part 2Explore pending schema changesMaterialize pending schema changesDrop a columnMigrate existing classic table space types to UTSChange table space characteristics such as DSSIZE, page size, and SEGSIZETake care of the implications of applying those pending online schema changes4: UDFsDifferentiate between external scalar functions, external table functions, SQL scalar functions, and sourced functionsDetermine which user-defined function will be invoked given the invocation statementCreate a user-defined function

5: Archive-enabled tablesDescribe transparent archivingUnderstand archive-enabled and archive tables6: Temporal tablesUnderstand the need for temporal tablesUtilize System Time temporal tablesUtilize Business Time temporal tablesUtilize Bitemporal tables7: Partition management part 1Add partitionsRotate partitions8. Partition management part 2Modify limit keysRebalance partitions9. Stored procedures part 1Explain what a stored procedure isDescribe how to implement and maintain stored proceduresDiscuss types of stored proceduresDefine external stored proceduresExamine DB2 commands affecting stored procedures10. Stored procedures part 2Examine native SQL stored proceduresExplain native SQL procedure versioning and deployment

Objective

- Introduce program preparation and the use of packages
- Discuss immediate and pending online schema changes
- Utilize UDFs
- Utilize archive enabled tables
- Utilize temporal tables
- Manage partitions
- Utilize Stored Procedures
- Work with Triggers

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

8. Mai 2023 bis 10. Mai 2023	3. Jul 2023 bis 5. Jul 2023	28. Aug 2023 bis 30. Aug 2023
28. Aug 2023 bis 30. Aug 2023	23. Okt 2023 bis 25. Okt 2023	11. Dez 2023 bis 13. Dez 2023

IBM CV844G - Db2 12 for z/OS Basic Database Administration

Live Online oder Präsenz

Dauer : 24h00

Nr. : 30351

Preis : 2.400,00 € netto
2.856,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course will expose the beginning z/OS DBAs (Database Administrators) to fundamentals of Database Administration for a Db2 12 for z/OS. This course will teach the students how to physically implement a logical database design using DDL, and teaches considerations of referentially related tables. This course discusses the use of basic utilities, program preparation, serialization, and basic database security. This course does not cover distributed data processing, nor does it cover data sharing.

Wer sollte teilnehmen:

Zielgruppe

Audience

- Students who will be performing the role of Db2 for z/OS database administrators who need to acquire the basic skills required to administer a Db2 database.

Voraussetzungen

Prerequisites

- Familiarity with the z/OS operating system, including TSO, ISPF, and SDSF
- Familiarity with SQL data manipulation statements (SELECT, INSERT, UPDATE, and DELETE) to access and change the contents of Db2 tables

Trainingsprogramm

Course Outline

PrefaceCourse OverviewIntended AudienceCourse ObjectivesPrerequisitesUnit 1 - Db2 Relational database conceptsRelational Database designData accessInteracting with Db2Catalog and directoryUnit 2 - SQL and SPUFISQL SELECT statement reviewSQL INSERT, UPDATE, DELETE reviewSQL COMMIT and ROLLBACK reviewJoining

tablesExecuting SQL using SPUFIUnit 3 - Db2 objects (Storage groups, databases, and table spaces)Object conceptsStorage GroupsDatabasesTable SpacesUnit 4 - Db2 Objects (Tables, indexes, and views)Tables o AliasesTable constraints o Primary key o Foreign key o Check o Referential integrityIndexesViewsQualified namesImplicit object creationUnit 5 - UtilitiesUtility CategoriesLoad UtilityCheck Data UtilityUnload UtilityRunstats UtilityReorg UtilityUnit 6 - Commands and program preparationDb2 Command StructureDisplay CommandArchiving LogsStop and Start CommandsExecuting CommandsProgram PreparationUnit 7 - The Db2 systemSystem Parameters (zParms)Address SpacesSystem DatabasesBuffer PoolsLoggingIntegritySecurityUnit 8 - Db2 Shutdown, startup, and recoveryStart and Stop CommandsDb2 Shutdown ProcessDb2 Startup PhasesSystem RecoveryObject RecoveryCopy UtilityRecover UtilityAppendix A - Demonstration solutions

Objective

Please refer to course overview

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

8. Mai 2023 bis 10. Mai 2023	10. Jul 2023 bis 12. Jul 2023	28. Aug 2023 bis 30. Aug 2023
23. Okt 2023 bis 25. Okt 2023	11. Dez 2023 bis 13. Dez 2023	

IBM CV851G - DB2 10 for zOS System Administration

Live Online oder Präsenz

Dauer : 40h00

Nr. : 30018

Preis : 4.000,00 € netto
4.760,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

The course is updated for DB2 10 for z/OS. This course is the classroom delivered version of the Instructor led Online course DB2 10 for z/OS System Administration - ILO (3V851).

Administrators of DB2 10 for z/OS can acquire a view of the architecture and fundamental processes required to manage a DB2 10 for z/OS subsystem. Engage in lectures and hands-on labs to gain experience to:

- Relate the z/OS IPL process to a DB2 subsystem
- Explain effects of stopping and starting DB2
- Explain how DB2 sets and use Integrated Catalog Facility (ICF) catalog names
- The use of DSN command processor running in batch and foreground
- Use views to minimize your ability to see into the DB2 catalog
- See how the catalog (through grant activity) controls access to data
- Search the catalog for problem situations
- Use the catalog and DB2 utilities to determine data recovery requirements
- Describe Internal Resource Lock Manager (IRLM) in a DB2 environment
- Implement DB2 and Resource Access Control Facility (RACF) security
- Describe DB2 program flow for all environments
- Display normal and problem threads and database status
- See how the SQL Processor Using File Input (SPUFI) AUTOCOMMIT option defers the COMMIT/ROLLBACK decision
- Interpret lock displays
- Identify and cancel particular threads
- Describe available DB2 utilities to manage system and user page sets

Wer sollte teilnehmen:

Zielgruppe

Audience

This intermediate course is for system administrators, database administrators, and other technical individuals, who manage and implement DB2 10 for z/OS.

Voraussetzungen

Prerequisites

You should have an understanding of the objects (tables, indexes, databases, and so forth) used in DB2 systems, and of how those objects are created, managed, and recovered.

These skills can be developed by taking the DB2 Database Administration Workshop (CF83) / DB2 9 for z/OS Database Administration Workshop Part 1 (CV830) or through equivalent experience. You should also have a working knowledge of SQL. The DB2 SQL Workshop (CF12) / SQL Workshop - Instructor Led Online (3E120) provides that.

In addition, you should have:

- At least one year as a z/OS systems programmer or equivalent experience
- Or, one year working with DB2 on the mainframe as a DBA on the mainframe or equivalent experience

Trainingsprogramm

Course Outline

Basic architecture and fundamental mechanisms

- Explain the principles of:
  - IPLing z/OS
  - TSO/E LOGON
  - Allocation CLIST
  - Control of DB2
  - START DB2 process
  - DSNZPARM member
  - DB2 address space structure
  - DB2 log
  - Catalog and directory
  - Data sharing feature
  - Connection process
  - Command routing process
  - Program preparation and execution processes
  - Transaction and points of consistency
- Set up and tune the IRLM
- Recognize the important IRLM parameters

System security

- Protect DB2 data sets when DB2 is up or down
- Protect connections to DB2
- Describe the high-level operation of DB2 security exits

DB2 program flow for all environments

- Describe DB2 program execution
- Explain what a DB2 thread is
- Explain commit processing
- Describe connection types

- DSN
- CAF
- IMS
- CICS
- RRSAF

TSO and batch environments

- Describe TSO facilities
- Describe the facilities of DB2I
- Invoke the DSN command processor in various ways
- Invoke DB2 utilities
- Describe the QMF environment

DB2 authorization

- Provide appropriate authorization for your user community
- Monitor authorization in the DB2 catalog
- Effectively assign administrative authorities like SYSADM, DBADM, and BINDAGENT
- Create objects for others

Logging

- Explain the basic algorithms of the DB2 logging facility
- Set up and operate your log efficiently
- Recover from BSDS failures
- Recover from certain lost log data set situations
- Explain the use of the log maintenance tools

DB2 9 for z/OS utilities

- Categorize and discuss DB2 utilities
- Explain how to back up and recover DB2 objects using BACKUP SYSTEM and RESTORE SYSTEM utilities
- Define high-level qualifier for catalog and directory
- Rename DB2 data sets
- Print log map of BSDS

Object recovery

- Describe the different types of application recovery
- Perform various health checks to detect damaged data
- Read the log using DSN1LOGP
- Avoid certain lost log scenarios

Transaction flow in IMS and CICS

- Describe the two-phase commit process
- Explain thread recycling and the complete connection process for a DB2 thread
- Describe the input to and output from a SIGNON exit

CICS - DB2 environment

- Outline a CICS connection to DB2
- Use the DSNC transaction
- Encourage CICS thread recycling

Operations (monitoring and controlling DB2)

- Monitor and control DB2
- Train operators at your local site
- Discuss the functions of ATS (Administrative Task Scheduler)

System recovery/restart

- Describe the DB2 restart process following both normal and abnormal terminations
- Prevent restart failures
- Recover from restart failures
- Begin planning for offsite recovery

IMS - DB2 environment

- Integrate IMS transactions into the DB2 environment
- Integrate IMS BATCH jobs into the DB2 environment
- Control which plans, subsystems, and connection IDs transactions and batch jobs use

Distributed - DB2 environment

- Describe the use of DB2 for z/OS enterprise servers in a multitier environment
- Explain the difference between JDBC and SQLJ
- Describe the Java database connectivity capabilities: use SQLJ and/or JDBC
- Document the requirements to set up the DB2 and Java environment in a z/OS environment

Objective

- Start and stop the DB2 subsystem
- Explain the allocation CLIST used at logon for DB2 data sets
- Use Set SYSPARM command
- Locate the Command recognition character for the DB2 subsystem
- Query the system log to gain knowledge about the IPL process and information in the system log when DB2 is initialized or stopped
- Explore DB2 Address Spaces information
- Select the DB2 functions that best satisfy your site requirements
- Explain the use of RACF for DB2 connection security
- Explain the use of Roles and Trusted Context
- Implement security procedures for a DB2 environment
- Describe the components and address space structure of a DB2 subsystem
- Explain DB2 Program Flow for all environments
- Explain parameter settings for the IRLM
- Display storage values for the IRLMPROC
- Dynamically change IRLM storage
- Estimate lock storage required for the IRLM
- Invoke and use DB2 TSO Facilities
- Use the DB2 Catalog to monitor authorizations
- Increase the size of the Active Log data sets
- Explain DB2 Logging
- Use SET LOG SUSPEND and SET LOG RESUME
- Use DSNJU004 to Print Log Map
- Interpret the output of Print Log Map
- Use DSNJU003 to rename DB2 data sets
- Plan for recovery of a BSDS failure

- Monitor and control DB2
- Explain transaction flow in IMS and CICS
- Describe the CICS and DB2 environment
- Explain the difference between JDBC and SQLJ

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

1. Mai 2023 bis 5. Mai 2023	19. Jun 2023 bis 23. Jun 2023	14. Aug 2023 bis 18. Aug 2023
9. Okt 2023 bis 13. Okt 2023	13. Nov 2023 bis 17. Nov 2023	

IBM CV852G - DB2 11 for zOS System Administration

Live Online oder Präsenz

Dauer : 40h00

Nr. : 30350

Preis : 4.000,00 € netto
4.760,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

Administrators of DB2 11 for z/OS can acquire a view of the architecture and fundamental processes required to manage a DB2 11 for z/OS subsystem. Engage in lectures and hands-on labs to gain experience to:

- Relate the z/OS IPL process to a DB2 subsystem
- Explain effects of stopping and starting DB2
- Explain how DB2 sets and use Integrated Catalog Facility (ICF) catalog names
- The use of DSN command processor running in batch and foreground
- Use views to minimize users' ability to see into the DB2 catalog
- See how the catalog (through grant activity) controls access to data
- Search the catalog for problem situations
- Use the catalog and DB2 utilities to determine data recovery requirements
- Describe Internal Resource Lock Manager (IRLM) in a DB2 environment
- Implement DB2 and Resource Access Control Facility (RACF) security
- Describe DB2 program flow for all environments
- Display normal and problem threads and database status
- See how the SQL Processor Using File Input (SPUFI) AUTOCOMMIT option defers the COMMIT/ROLLBACK decision
- Interpret lock displays
- Identify and cancel particular threads
- Describe available DB2 utilities to manage system and user page sets

Wer sollte teilnehmen:

Zielgruppe

Audience

This is an intermediate course for system administrators, database administrators, and other technical individuals, who manage and implement DB2 10 for z/OS.

Voraussetzungen

Prerequisites

You should have:

- an understanding of the objects (tables, indexes, databases, and so forth) used in DB2 systems, and of how those objects are created, managed, and recovered. These skills can be developed by taking the DB2 Database Administration Workshop (CF83G) / (CV830) or through equivalent experience.
- a working knowledge of SQL. The SQL Workshop (CE120G) / (3E12G) provides that.
- At least one year as a z/OS systems programmer or equivalent experience
- Or, one year working with DB2 on the mainframe as a DBA on the mainframe or equivalent experience

Trainingsprogramm

Course Outline

Please refer to course overview for description information.

Objective

- Start and stop the DB2 subsystem
- Explain the allocation CLIST used at logon for DB2 data sets
- Use Set SYSPARM command
- Locate the Command recognition character for the DB2 subsystem
- Query the system log to gain knowledge about the IPL process and information in the system log when DB2 is initialized or stopped
- Explore DB2 Address Spaces information
- Select the DB2 functions that best satisfy your site requirements
- Explain the use of RACF for DB2 connection security
- Explain the use of Roles and Trusted Context
- Implement security procedures for a DB2 environment
- Describe the components and address space structure of a DB2 subsystem
- Explain DB2 Program Flow for all environments
- Invoke and use DB2 TSO Facilities
- Use the DB2 Catalog to monitor authorizations
- Increase the size of the Active Log data sets
- Explain DB2 Logging
- Use SET LOG SUSPEND and SET LOG RESUME
- Use DSNJU004 to Print Log Map
- Interpret the output of the Print Log Map Utility DSNJU004
- Use DSNJU003 to rename DB2 data sets
- Plan for recovery of a BSDS failure
- Monitor and control DB2
- Explain transaction flow in IMS and CICS
- Describe the CICS and DB2 environment
- Make use and inplement the extended 10-byte RBA and LRSN

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

1. Mai 2023 bis 5. Mai 2023	19. Jun 2023 bis 23. Jun 2023	14. Aug 2023 bis 18. Aug 2023
9. Okt 2023 bis 13. Okt 2023	13. Nov 2023 bis 17. Nov 2023	

IBM CV853G - Db2 12 for z/OS Introduction to System Administration

Live Online oder Präsenz

Dauer : 24h00

Nr. : 30214

Preis : 2.400,00 € netto
2.856,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course provides students with an introduction to the skills and knowledge needed to administer a Db2 12 for z/OS system.

Wer sollte teilnehmen:

Zielgruppe

Audience

This course is intended for z/OS system administrators, database administrators, or other technical individuals who will be managing Db2 12 for z/OS.

Voraussetzungen

Prerequisites

- Understanding of the objects (such as databases, table spaces, tables, indexes, and so forth) used in a Db2 subsystem
- Basic knowledge of SQL
- At least one year as a z/OS systems programmer or equivalent knowledge

OR

- At least one year as a Db2 for z/OS Database Administrator

Trainingsprogramm

Course Outline

Starting, stopping, and accessing Db2Starting Db2 as part of the z/OS IPL processData set allocation and APF

authorizationThe START DB2 and STOP DB2 commandszParms, DSNTIJUZ, and DSNZPARMAddress spacesIRLM and lock storageDb2 components and processesBSDS and loggingCatalog and directoryProgram preparation and executionTransaction executionData sharing in the sysplexSystem securityProtecting Db2 data setsControlling connections to Db2Db2 authorization exitsTrusted context and rolesSecuring an application serverDb2 authorizationAuthorizationsControlling access for dynamic and static SQLAccess control authorization exitsDistributed securityProgram flow for all environmentsConnection types and language interfacesProgram flowTSO and batch environmentsTSOUtilitiesTransaction flow in IMS and CICS (optional)Transaction processingThread reuseSIGNON exitCICS - Db2 environment (optional)CICS connections to Db2DSNC transactionIMS - Db2 environment (optional)IMS-Db2 introductionIMS TMIMS/DLI batch environmentDistributed - Db2 environmentDistributed attachmentLocation aliasesDDF profilingBlock fetchDb2 REST servicesLoggingThe Db2 logLog commandsArchiving considerationsBSDSDb2 utilitiesCategorizationDSNJU003 and DSNJU004BACKUP and RESTORE SYSTEMOperations (monitoring and controlling Db2)Issuing Db2 commandsBasic workload controlsMonitoring and controlling utilitiesDISPLAY commandsStarting / stopping databasesRecoveryPlanning for recoveryTable space recoveryLog considerationsDISPLAY and SET LOG commandsRecovery considerationsSystem recover/restartSystem checkpointsSystem restart after normal shutdownPage externalizationTwo-phase commit processingSystem restart after system failureRecovery considerationsJava with Db2 (optional)JavaAdministrative task scheduler (optional)OverviewRoutinesScheduling featuresLife cycleSyncronizationCommands

Objective

After completing this course, students should be able to:

- Start and stop a Db2 subsystem
- Use the SET SYSPARM command
- Access the system log to gather information about the subsystem initialization, operation, or shutdown
- Describe the components and address space structure of a Db2 subsystem
- Explain the use of RACF (or another external security program) for Db2 connection security
- Explain the use of Roles and Trusted Contexts
- Implement security procredures for a Db2 subsystem
- Explain Db2 program flow for all environments
- Explain parameter setting for the IRLM
- Invoke and utilitze Db2 TSO facilities
- Use the Db2 Catalog to monitor subsystem authorizations
- Work with the Active Log data sets
- Explain Db2 logging
- Use SET LOG SUSPEND and SET LOG RESUME
- Use DSNJU004 to print log map and interpret the results
- Use DSNJU003 to rename Db2 data sets
- Plan for recovery of a BSDS failure
- Monitor and control a Db2 subsystem
- Explain transaction flow in IMS and CICS environments (optional)
- Describe the CICS and DB2 environment (optional)
- Explain the difference between JDBC and SQLJ
- And much more

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

26. Jun 2023 bis 28. Jun 2023	13. Nov 2023 bis 15. Nov 2023

IBM CV862G - DB2 11 for zOS Implementation Workshop

Live Online oder Präsenz

Dauer : 40h00

Nr. : 30069

Preis : 4.000,00 € netto
4.760,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course is for installers of DB2 10 z/OS and/or migration to DB2 11 for z/OS using the Install CLIST. The participants are involved in lectures that explain DB2 11 components and pointers, and the processes used to install or migrate from DB2 10 for z/OS. To reinforce the lectures, a series of labs are provided to give each participant hands-on experience installing DB2 10 for z/OS and migrating to DB2 11 for z/OS.

Students access a mainframe environment for the labs.

Wer sollte teilnehmen:

Zielgruppe

Audience

Anyone responsible for maintaining, installing or migrating DB2 10 for z/OS to DB2 11 for z/OS, or installing DB2 11 for z/OS.

Voraussetzungen

Prerequisites

The following prerequisites are suggested:

- The basic concepts and facilities of DB2
- The basic concepts of Structured Query Language (SQL)
- z/OS Time Sharing Option (TSO) and the z/OS interactive System Productivity Facility (ISPF)
- Course CV832 Database Administration Part I or equivalent Work experience in a z/OS environment
- Course CV852 System Administration or equivalent
- Work experience in a z/OS environment
- Defining and allocating z/OS data sets using z/OS job control language (JCL) or equivalent experience.

Trainingsprogramm

Course Outline

Installation preparation for DB2 10 for z/OS Installation CLIST Installing the DB2 10 subsystem Verification of DB2 10 with the sample applications Performing parameter update Migrating to DB2 11 conversion mode DB2 10 enabling-new-function and new-function modes Verification of DB2 11 with the sample applications 10-byte RBA and LRSN (new)

Objective

After completing this course, you should be able to:

- Prepare z/OS TSO environment to run the Install CLIST
- Provide appropriate parameters for the Install CLIST
- Execute the Install CLIST
- Define DB2 10 for z/OS
- Define VSAM catalog and alias
- Define system data sets and databases
- Initialize system data sets and databases
- Define DB2 10 for z/OS initialization parameters
- Define user authorization exits
- Record DB2 11 for z/OS data to SMF
- Establish subsystem security
- Verify the DB2 10 for z/OS installation
- Update subsystem parameters
- Create a new subsystem parameter module
- Migrate DB2 10 for z/OS to DB2 11 for z/OS Conversion Mode
- Enable DB2 11 for z/OS New Function Mode
- Verify migration
- Convert the BSDS and Catalog/Directory to 10-byte RBA and LRSN usage

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

8. Mai 2023 bis 12. Mai 2023

3. Jul 2023 bis 7. Jul 2023

24. Jul 2023 bis 28. Jul 2023

20. Nov 2023 bis 24. Nov 2023

IBM CV871G - DB2 10 for z/OS Utilities for Database Administrators

Live Online oder Präsenz

Dauer : 24h00

Nr. : 30208

Preis : 2.400,00 € netto
2.856,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course is designed to teach you advanced topics about DB2 for z/OS utilities. It is assumed that you attended course *DB2 10 for z/OS Database Administration Workshop Part 1 (CV831)* so that you already have basic skills about the main utilities. Recovery-oriented topics are not part of this course, so such utility functions are not presented.

Wer sollte teilnehmen:

Zielgruppe

Audience

Please refer to course overview.

Voraussetzungen

Prerequisites

You should have attended course:

- DB2 9 for z/OS Database Administration Workshop Part 1 (CV830) or DB2 10 for z/OS Database Administration Workshop Part 1 (CV831), or have attained a similar level of knowledge

Trainingsprogramm

Course Outline

- (CV831) utilities review
- RUNSTATS, DSN1COPY,REPAIR, and DIAGNOSE
- LOAD and REBUILD INDEX performance and availability
- Online CHECK DATA
- REORG performance and availability

- UNLOAD performance and availability
- Generic utility jobs (LISTDEF and TEMPLATE)
- Appendix: Clone tables

The course includes extensive machine exercises.

Objective

- Use RUNSTATS to accelerate the performance of a given SQL access
- Employ DSN1COPY, REPAIR, and DIAGNOSE for DBA tasks which are not recovery-oriented
- Use parallel index build with the LOAD, REORG and REBUILD INDEX utilities
- Load partitions in parallel
- Determine the appropriate LOAD options to use while considering concurrency and performance requirements
- Choose appropriate options with REORG and UNLOAD to achieve optimal performance and availability
- Provide appropriate LISTDEF, TEMPLATE, and OPTIONS utility control statements for use in DB2 utilities

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

10. Jul 2023 bis 12. Jul 2023	27. Nov 2023 bis 29. Nov 2023

IBM CV880G - Db2 12 for zOS Advanced Database Administration

Live Online oder Präsenz

Dauer : 16h00

Nr. : 30237

Preis : 1.600,00 € netto
1.904,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course will introduce the student to advanced database administration skills, including program preparation and the use of packages, online schema changes, partition management, and stored procedures; as well as performance and availability features of utilities (including LOAD, REBUILD INDEX, REORG, and UNLOAD). This course does not cover distributed data processing, nor does it cover data sharing.

Wer sollte teilnehmen:

Zielgruppe

Audience

Students needing to augment their skill set in administering a Db2 12 for z/OS database environment.

Voraussetzungen

Prerequisites

- Familiarity with the z/OS operating system, including TSO, ISPF, and SDSF.
- Familiarity with SQL DML (SELECT, INSERT, UPDATE, DELETE, and MERGE) and DDL (CREATE, ALTER, DROP) statements
- Basic skills administering a Db2 12 for z/OS database environment, including the use of basic utilities, serialization, and basic database security.

Trainingsprogramm

Course Outline

Program preparation and the use of packages part 1 Program preparation overview Execution time errors BIND

actions Package status and REBIND Deleting a package Determining the table/view qualifier Online schema changes part 1 Changing data type Adding columns to a table Renaming columns in a table Renaming indexes Adding columns to indexes Versioning Online schema changes part 2 Pending online schema changes Dropping columns from a table Converting to UTS Other pending changes Impact of pending changes on immediate options Restrictions and considerations Partition management part 1 Adding partitions Rotating partitions Partition management part 2 Modifying limit keys Rebalancing partitions Stored procedures part 1 External stored procedures WLM-established application environments Altering and dropping a stored procedure Commands for stored procedures Execution privileges Catalog information LOAD and REBUILD INDEX LOAD with parallel index build LOAD partitions in parallel REBUILD INDEX Inline image copies and statistics LOAD SHRLEVEL CHANGE LOAD REPLACE SHRLEVEL REFERENCE REORG Performance features of REORG Online REORG Inline image copies and statistics Considerations for PBG table spaces Online REORG with LOBs (optional)

UNLOAD Overview Image copy specification Table-only input specification SHRLEVEL option Modes of operation Program preparation and the use of packages part 2 (optional) Table mirroring Package versioning Plan management Other REBIND PACKAGE options Application compatibility Stored procedures part 2 (optional) Native stored procedures Native procedure deployment

Objective

Program preparation and the use of packages part 1Program preparation overviewExecution time errorsBIND actionsPackage status and REBINDDeleting a packageDetermining the table/view qualifier

Online schema changes part 1Changing data typeAdding columns to a tableRenaming columns in a tableRenaming indexesAdding columns to indexesVersioning

Online schema changes part 2Pending online schema changesDropping columns from a tableConverting to UTSOther pending changesImpact of pending changes on immediate optionsRestrictions and considerations

Partition management part 1Adding partitionsRotating partitions

Partition management part 2Modifying limit keysRebalancing partitions

Stored procedures part 1External stored proceduresWLM-established application environmentsAltering and dropping a stored procedureCommands for stored proceduresExecution privilegesCatalog information

LOAD and REBUILD INDEXLOAD with parallel index buildLOAD partitions in parallelREBUILD INDEXInline image copies and statisticsLOAD SHRLEVEL CHANGELOAD REPLACE SHRLEVEL REFERENCE

REORGPerformance features of REORGOnline REORGInline image copies and statisticsConsideratons for PBG table spacesOnline REORG with LOBs (optional)

UNLOADOverviewImage copy specification Table-only input specificationSHRLEVEL optionModes of operation

Program preparation and the use of packages part 2 (optional)Table mirroringPackage versioningPlan managementOther REBIND PACKAGE optionsApplication compatibility

Stored procedures part 2 (optional)Native stored proceduresNative procedure deployment

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

10. Jul 2023 bis 11. Jul 2023	27. Nov 2023 bis 28. Nov 2023

IBM CV963G - DB2 11 for z/OS Application Performance and Tuning

Live Online oder Präsenz

Dauer : 40h00

Nr. : 30321

Preis : 4.000,00 € netto
4.760,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This Application Performance and Tuning course is designed to teach the students how to prevent application performance problems and to improve the performance of existing applications. Students will learn about indexes, table design, locking, and other issues relevant to application performance. This course includes paper exercises and machine exercises designed to reinforce the lecture content.

Wer sollte teilnehmen:

Zielgruppe

Audience

This intermediate course is designed for DB2 for z/OS application developers, DB2 for z/OS DBAs, and anyone else who is responsible for application performance and tuning in a DB2 for z/OS environment.

Voraussetzungen

Prerequisites

You should have:

- Familiarity with DB2 for z/OS application programming and SQL.

Trainingsprogramm

Course Outline

- Introduction to Application Performance and Tuning
- List common causes of application performance problems
- Evalutate different approaches for detecting the problems
- Describe possible solutions

- Performance Analysis Tools
- Understand components of local response time (LRT)
- Identify touch random (TR), touch sequential (TS), and fetch (F) time costs
- Utilize VQUBE3 to estimate local response time (LRT)
- Locate necessary time values in an accounting trace report
- Draw and interpret a bubble chart
- Towards Better Indexes
- Understand DB2 index structure and usage
- Evalute the cost of creating a new index or modifying an existing index
- Design the best possible index for a single table query
- Describe prefetch operations and multi-index access
- Multiple Table Access
- Identify various join methods and join types
- Predict table join order
- Design the best indexes for joining tables
- Optimmize correlated and non-correlated subqueries
- Utilize UNION, INTERSECT, and EXCEPT operations
- Towards Better Tables
- Evaluate clustering alternatives
- Understand basic rules of nomalization
- Consider conditions for denormalization
- Define materialized query tables
- Learning to Live with the Optimizer
- Describe the limitations related to dangerous predicates
- Identify situations when the optimizer needs help with filter factor estimates
- Massive Batch
- Detect performance problems with massive batch jobs
- Make batch jobs run faster
- Locking Issues
- Describe DB2 serialization
- Understand transaction locking
- Avoid locking problems in application design
- Course Summary
- Summarize the topics covered in this course

Objective

- Design better indexes
- Determine how to live with the optimizer (avoid pitfalls, help when necessary)
- Avoid locking problems
- Use accounting trace information to find significant performance problems in an operational application

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

29. Mai 2023 bis 2. Jun 2023	7. Aug 2023 bis 11. Aug 2023	4. Dez 2023 bis 8. Dez 2023

IBM CV964G - Db2 12 for z/OS SQL Performance and Tuning

Live Online oder Präsenz

Dauer : 24h00

Nr. : 30196

Preis : 3.200,00 € netto
3.808,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course is designed to teach the students how to prevent SQL performance problems and how to improve the performance of existing SQL.

Wer sollte teilnehmen:

Zielgruppe

Audience

This course is for Db2 12 for z/OS application developers, Db2 12 for z/OS DBAs, and anyone else with a responsibility for SQL performance and tuning in a Db2 12 for z/OS environment.

Voraussetzungen

Prerequisites

- Familiarity with SQL
- Familiarity with Db2 12 for z/OS
- Familiarity with Db2 12 for z/OS application programming

Trainingsprogramm

Course Outline

Introduction to SQL performance and tuningPerformance issuesSimple exampleVisualizing the problemSummaryPerformance analysis toolsComponents of response timeTime estimates with VQUBE3SQL EXPLAINThe accounting traceThe bubble chartPerformance thresholdsIndex basicsIndexesIndex structureEstimating index I/OsClustering indexIndex page splitsAccess pathsClassificationMatching versus ScreeningVariationsHash accessPrefetchCaveatMore on indexesInclude indexIndex on expressionRandom indexPartitioned and partitioning, NPSI and DPSIPage range screeningFeatures and limitationsTuning methodology and index costMethodologyIndex

cost: Disk spaceIndex cost: MaintenanceUtilities and indexesModifying and creating indexesAvoiding sortsIndex designApproachDesigning indexesAdvanced access pathsPrefetchList prefetchMultiple index accessRuntime adaptive indexMultiple table accessJoin methodsJoin typesDesigning indexes for joinsPredicting table orderSubqueriesCorrelated subqueriesNon-correlated subqueriesORDER BY and FETCH FIRST with subqueriesGlobal query optimizationVirtual tablesExplain for subqueriesSet operations (optional)UNION, EXCEPT, and INTERSECTRulesMore about the set operatorsUNION ALL performance improvementsTable design (optional)Number of tablesClustering sequenceDenormalizationMaterialized query tables (MQTs)Temporal tablesArchive enabled tablesWorking with the optimizerIndexable versus non-indexable predicatesBoolean versus non-Boolean predicatesStage 1 versus stage 2Filter factorsHelping the optimizerPaginationLocking issuesThe ACID testReasons for serializationSerialization mechanismsTransaction lockingLock promotion, escalation, and avoidanceMore locking issues (optional)Skip locked dataCurrently committed dataOptimistic lockingHot spotsApplication designAnalyzing lock waitsMassive batch (optional)Batch performance issuesBuffer pool operationsImproving performanceBenefit analysisMassive deletes

Objective

After completing this course, students will be able to:

- Understand and design better indexes
- Determine how to work with the optimizer (avoid pitfalls, provide guidence)
- Optimize multi-table access
- Work with subqueries
- Avoid locking problems
- Use accounting traces and other tools to locate performance problems in existing SQL
- and more

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

15. Aug 2023 bis 17. Aug 2023	11. Dez 2023 bis 13. Dez 2023

IBM F226G - IBM StoredIQ 7.6 - Core Skills

Live Online oder Präsenz

Dauer : 8h00

Nr. : 30129

Preis : 800,00 € netto
952,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This unit provides training on IBM StoredIQ. You learn about StoredIQ architecture, features, and functions. You also learn the core skills for data experts, matter experts, and administrators. You work with an IBM StoredIQ system to practice the skills that you learn.

If you are enrolling in a Self Paced Virtual Classroom or Web Based Training course, before you enroll, please review the Self-Paced Virtual Classes and Web-Based Training Classes on our Terms and Conditions page, as well as the system requirements, to ensure that your system meets the minimum requirements for this course. /terms

Wer sollte teilnehmen:

Zielgruppe

Audience

This intermediate course is for:

StoredIQ Global Administrators who are responsible for the following activities:

- Managing the StoredIQ installation.
- Working with data sources, indexes, Data Servers, jobs, infosets, and actions.
- Mounting volumes,
- Managing SIQ platform and back-end data servers.

Data Experts who are responsible for the following activities:

- Creating use-case specific filters, actions, infosets, and workflows.

Subject Matter Experts who are responsible for the following activities:

- Creating and using use-case specific dashboards, Data Workbench, eDiscovery, Data Script, and Policy Manager.

Voraussetzungen

Prerequisites

This course has no prerequisites.

Trainingsprogramm

Course Outline

- Introduction to StoredIQ
- View Data
- Refine Data
- Act on Data
- Harvest Data
- View Audits and Logs

Objective

Describe what IBM StoredIQ is and what it does.

- Identify use-cases for IBM StoredIQ
- Identify the responsibilities of StoredIQ roles.
- Identify StoredIQ architectural components

Describe how StoredIQ processes data.

- Define in-place data management.
- Describe how data is harvested from data sources.
- Explain metadata and full-text indexing.
- Describe the capabilities of Content Classification integration.

Use Data Workbench to inspect a system infoset.

- Use Data Workbench.
- Apply view filters a system infoset.

Create and refine an infoset.

Use a macro to create a filter

- Create a filter.
- Use a built-in macro.
- Create a custom infoset.
- Create an overlay.

Move files to a another volume.

- Create a primary volume.
- Create a move action.
- Use the move action to move files to another volume.

Use Policy Manager to automatically delete files.

- Use Policy Manager.

Create a system infoset.

- Delete a primary volume
- Create a primary volume.
- Harvest data.
- Set up full-text indexing.

View harvest audits.

View event logs.

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

26. Jun 2023	20. Nov 2023

IBM KM020G - IBM InfoSphere Data Replication - InfoSphere Change Data Capture Essentials

Live Online oder Präsenz

Dauer : 24h00

Nr. : 30016

Preis : 2.400,00 € netto
2.856,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course will teach about the InfoSphere Change Data Capture (CDC) component of the IBM InfoSphere Data Replication family of solutions. This course will examine the architecture, components and capabilities of CDC, and discuss various ways to setup and implement the software. This course will explore how to operate and troubleshoot CDC and discuss Best Practices in maintaining the Environment. Lastly, use cases will be provided to help student understand how replication is used using InfoSphere Change Data Capture to a Business Environment.

Wer sollte teilnehmen:

Zielgruppe

Audience

This course will enable Database Administrators, Data Warehouse Managers, Business analysts and IT Managers to develop a strong data replication solution that will meet everyday business challenges. This course will be focusing on InfoSphere Change Data Capture as a solution to meet challenges arising from unifying company data brought about by Globalization, Acquisitions, Government Regulations, Competition, Shrinking IT Budgets. InfoSphere Change Data Capture is a real time data replication solution that synchronizes data within heterogenous systems Transforms disparate data forms on the fly, detect data collision and resolve it automatically. Learn all these in this course.

Voraussetzungen

Prerequisites

None

Trainingsprogramm

Course Outline

- Unit 1: An Introduction to InfoSphere Change Data Capture
- Unit 2: InfoSphjere Change Data Capture Architecture
- UNit 3: InfoSphere Change Data Capture Components
- Unit 4: InfoSphere Change Data Capture Capabilities
- Unit 5: InfoSphere Change Data Capture, Other Capabilities
- Unit 6: InfoSphere Change Data Capture Apply Methods
- Unit 7: InfoSphere Change Data Capture Replication Scenarios
- Unit 8: Setting Up InfoSphere CDC Replication
- Unit 9: Collision Detection and Resolution
- Unit 10: Monitoring Infosphere CDC
- Unit 11: InfoSphere CDC Utilities
- Unit 12: Troubleshooting InfoSphere CDC
- Unit 13: InfoSphere Use Cases
- Unit 14 InfoSphere CDC Best Practices

Objective

- Be Familiar with InfoSphere Change data Capture Features
- Be Familiar with InfoSphere Change Data Capture Components
- Be Familiar with InfoSphere Change data Capture Capabilities
- To Learn various InfoSphere Change Data Capture Apply Methods
- Learn To Setup InfoSphere Change Data Capture Components
- Learn to Setup InfoSphere Change Data Capture Replication
- Learn to Monitor InfoSphere Change Data Capture Replication
- Learn to Use InfoSphere Change Data Capture Utilities
- Learn to Troubleshoot InfoSphere Change Data Capture
- Learn to maintain InfoSphere Change Data Capture Environments
- Learn to Apply InfoSphere Change Data Capture as a Business Solution to Various Business Challenges

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

4. Jul 2023 bis 6. Jul 2023	28. Nov 2023 bis 30. Nov 2023

IBM KM204G - IBM InfoSphere DataStage Essentials (v11.5)

Live Online oder Präsenz

Dauer : 32h00

Nr. : 30268

Preis : 3.200,00 € netto
3.808,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course enables the project administrators and ETL developers to acquire the skills necessary to develop parallel jobs in DataStage. The emphasis is on developers. Only administrative functions that are relevant to DataStage developers are fully discussed. Students will learn to create parallel jobs that access sequential and relational data and combine and transform the data using functions and other job components.

Wer sollte teilnehmen:

Zielgruppe

Audience

Project administrators and ETL developers responsible for data extraction and transformation using DataStage.

Voraussetzungen

Prerequisites

- Basic knowledge of Windows operating system
- Familiarity with database access techniques

Trainingsprogramm

Course Outline

1. Introduction to DataStage2. Deployment3. DataStage Administration4. Work with Metadata5. Create Parallel Jobs6. Access Sequential Data7. Partitioning and Collecting Algorithms8. Combine Data9. Group Processing Stages10. Transformer Stage11. Repository Functions12. Work with Relational Data13. Control Jobs

Objective

- Describe the uses of DataStage and the DataStage workflow
- Describe the Information Server architecture and how DataStage fits within it
- Describe the Information Server and DataStage deployment options
- Use the Information Server Web Console and the DataStage Administrator client to create DataStage users and to configure the DataStage environment
- Import and export DataStage objects to a file
- Import table definitions for sequential files and relational tables
- Design, compile, run, and monitor DataStage parallel jobs
- Design jobs that read and write to sequential files
- Describe the DataStage parallel processing architecture
- Design jobs that combine data using joins and lookups
- Design jobs that sort and aggregate data
- Implement complex business logic using the DataStage Transformer stage
- Debug DataStage jobs using the DataStage PX Debugger

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

24. Apr 2023 bis 27. Apr 2023	13. Jun 2023 bis 16. Jun 2023	15. Aug 2023 bis 18. Aug 2023
17. Okt 2023 bis 20. Okt 2023	5. Dez 2023 bis 8. Dez 2023	

IBM KM404G - IBM InfoSphere Advanced DataStage - Parallel Framework v11.5

Live Online oder Präsenz

Dauer : 24h00

Nr. : 30369

Preis : 2.400,00 € netto
2.856,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course is designed to introduce advanced parallel job development techniques in DataStage v11.5. In this course you will develop a deeper understanding of the DataStage architecture, including a deeper understanding of the DataStage development and runtime environments. This will enable you to design parallel jobs that are robust, less subject to errors, reusable, and optimized for better performance.

Wer sollte teilnehmen:

Zielgruppe

Audience

Experienced DataStage developers seeking training in more advanced DataStage job techniques and who seek an understanding of the parallel framework architecture.

Voraussetzungen

Prerequisites

IBM InfoSphere DataStage Essentials course or equivalent and at least one year of experience developing parallel jobs using DataStage.

Trainingsprogramm

Course Outline

1: Introduction to the parallel framework architectureDescribe the parallel processing architectureDescribe pipeline and partition parallelismDescribe the role of the configuration fileDesign a job that creates robust test data2: Compiling and executing jobsDescribe the main parts of the configuration fileDescribe the compile process and the

OSH that the compilation process generatesDescribe the role and the main parts of the ScoreDescribe the job execution process3: Partitioning and collecting dataUnderstand how partitioning works in the FrameworkViewing partitioners in the ScoreSelecting partitioning algorithmsGenerate sequences of numbers (surrogate keys) in a partitioned, parallel environment4: Sorting dataSort data in the parallel frameworkFind inserted sorts in the ScoreReduce the number of inserted sortsOptimize Fork-Join jobsUse Sort stages to determine the last row in a groupDescribe sort key and partitioner key logic in the parallel framework5: Buffering in parallel jobsDescribe how buffering works in parallel jobsTune buffers in parallel jobsAvoid buffer contentions6: Parallel framework data typesDescribe virtual data setsDescribe schemasDescribe data type mappings and conversionsDescribe how external data is processedHandle nullsWork with complex data7: Reusable componentsCreate a schema fileRead a sequential file using a schemaDescribe Runtime Column Propagation (RCP)Enable and disable RCPCreate and use shared containers8: Balanced OptimizationEnable Balanced Optimization functionality in DesignerDescribe the Balanced Optimization workflowList the different Balanced Optimization options.Push stage processing to a data sourcePush stage processing to a data targetOptimize a job accessing Hadoop HDFS file systemUnderstand the limitations of Balanced Optimizations

Objective

Please refer to course overview

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

19. Jul 2023 bis 21. Jul 2023	8. Nov 2023 bis 10. Nov 2023

IBM KM413G - IBM InfoSphere Advanced QualityStage V11.5

Live Online oder Präsenz

Dauer : 24h00

Nr. : 30382

Preis : 2.400,00 € netto
2.856,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course will step you through the QualityStage data cleansing process. You will transform an unstructured data source into a format suitable for loading into an existing data target. You will cleanse the source data by building a customer rule set that you create and use that rule set to standardize the data. You will next build a reference match to relate the cleansed source data to the existing target data.

Wer sollte teilnehmen:

Zielgruppe

Audience

The intended audience for this course are:
• QualityStage programmers
• Data Analysts responsible for data quality using QualityStage
• Data Quality Architects
• Data Cleansing Developers
• Data Quality Developers needing to customize QualityStage rule sets

Voraussetzungen

Prerequisites

Participants should have:
• Compled the QualityStage Essentials course, or have equivalent experience
• familiarity with Windows and a text editor
• familiarity with elementary statistics and probability concepts (desirable but not essential)

Trainingsprogramm

Course Outline

After completing this course, you should be able to:Modify rule setsBuild custom rule setsStandardize data using the custom rule setPerform a reference match using standardized data and a reference data setUse advanced techniques to refine a Two-source match

Objective

Please refer to the course overview

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

24. Jul 2023 bis 26. Jul 2023	13. Nov 2023 bis 15. Nov 2023

IBM KM510G - IBM InfoSphere Information Server Administrative Tasks V11.5

Live Online oder Präsenz

Dauer : 8h00

Nr. : 30392

Preis : 800,00 € netto
952,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course gets those charged with administering Information Server v11.5 and its suite of many products and components started with the basic administrative tasks necessary to support Information Server users and developers.

The course begins with a functional overview of Information Server and the products and components that support these functions. Then it focuses on the basic administrative tasks an Information Server administrator will need to perform including user management, session management, and reporting management tasks. The course covers both the use of Information Server administrative clients such as the Administration Console and Metadata Asset Manager and the use of command line tools such as istool and encrypt.

Wer sollte teilnehmen:

Zielgruppe

Audience

This basic course is for those who will be administering Information Server and its product components.

Voraussetzungen

Prerequisites

There are no pre-requisites for this course.

Trainingsprogramm

Course Outline

Unit 1: Information Server technical overview

List the Information Server functional categories

List the Information Server products and components that support these functional categories

List the Information Server architectural tiers

Unit 2: Working with Information Server clients

Use the Information Server Launch Pad to access Information Server thin clients including the Administrative Console, Information Governance Catalog, and Metadata Asset Manager

Access Information Server Engine Clients including DataStage, QualityStage, FastTrack, and Information Server Manager

Access Information Server Console Clients including Information Analyzer and Information Services Director

Unit 3: Authentication and suite security

Configure Suite users and groups

Configure DataStage credentials for Engine users

Unit 4: Session management

View a list of active sessions

View session properties

Disconnect sessions

Configure global session properties

Unit 5: Managing reports

Create and manage report folders

Create a report

Run a report

View report results

Unit 6: Administrative tools

Session Admin tool

Directory Command tool

Encrypt tool

Unit 7: Managing Information Server repository assets

Use istool to export and import common metadata assets

Use istool to query information assets

Use istool to export and import security assets

Use istool to export and import reporting assets

Objective

- List Information Server functional categories and the Information Server products and components that support them
- List and describe the Information Server architectural tiers
- Access Information Server clients, including thin clients using the Information Server Launch Pad, the Information Server Engine clients, and the Information Server Console clients including Information Analyzer and Information Services Director
- Create and configure Information Server users and groups
- Manage Information Server active sessions
- Manage Information Server reporting
- Work with Information Server command-line tools including tools for session administration, user and group management, and encryption
- Use the istool functionality to query, export, and import Information Server Repository assets

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

31. Jul 2023	20. Nov 2023

IBM KM520G - IBM InfoSphere DataStage engine Administration for Information Server v11.5

Live Online oder Präsenz

Dauer : 8h00

Nr. : 30383

Preis : 800,00 € netto
952,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course teaches Information Server and/or DataStage administrators to configure, manage, and monitor the DataStage Engine which plays a crucial role in Information Server. It not only runs high performance parallel ETL jobs designed and built in DataStage. It also supports other Information Server products including Information Analyzer, QualityStage, and Data Click. After introducing DataStage parallel jobs and the Engine that runs them, the course describes DataStage project configuration, the Engine's development and runtime environments, and the Engine's data source connectivity. In addition the course explains how to import and export DataStage objects, how to run and monitor DataStage jobs through the command line and GUI, and how to use some important Engine utilities.

Wer sollte teilnehmen:

Zielgruppe

Audience

This course is recommended for those who will be administering Information Server and DataStage.

Voraussetzungen

Prerequisites

It is recommend that students take KM510 "IBM InfoSphere Administrative Tasks for Information Server v11.5" course.

Trainingsprogramm

Course Outline

Unit 1: Introduction to the Information Server (DataStage) engineInformation Server architectureHow the DataStage

Engine is used in Information ServerDataStage Engine featuresUnit 2: Elements of a DataStage jobAnatomy of a DataStage parallel jobExplore the elements of an example DataStage job, including its stages and job parametersUnderstand the OSH that is generated by the job during compileUnit 3: Engine architecturePartition parallelismRuntime architectureConfiguration filesThe “Score”Unit 4: Engine project configurationDataStage project authorizationsRuntime Column Propagation (RCP)Environment variablesUnit 5: Configuring database connectivityConfiguring ODBC data sourcesConfiguring native database connectionsUnit 6: Running DataStage jobsRunning jobs from the command lineMonitoring jobs in Director and the Operations ConsoleWorkload managementStarting and stopping the EngineUnit 7: Engine utilitiesData set utilitiesMultiple job compileResource estimation toolUnit 8: Importing and exporting DataStage objectsDataStage Designer exports and importsCommand line exports and imports

Objective

After completing this course, you should be able to:
- Describe how the DataStage Engine is used within Information Server
- Describe how the engine achieves high performance through partition parallelism
- Describe the DataStage job compilation process
- Describe the engine runtime process and environment
- Describe the purpose and format of the DataStage configuration file
- Describe how to configure the engine using environment variables
- Describe how to configure data source connections
- Describe the ways of running DataStage jobs
- Describe how to monitor DataStage jobs and the runtime environment
- Describe engine workload management
- Import and export DataStage jobs and other engine objects

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

1. Aug 2023	21. Nov 2023

IBM KM615G - IBM InfoSphere Information Governance Catalog v11.5.0.2: Building the Catalog

Live Online oder Präsenz

Dauer : 8h00

Nr. : 30014

Preis : 800,00 € netto
952,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

In this course students learn how the Information Governance Catalog is used to govern information assets through the development of a governance catalog of categories and terms. This catalog documents information assets and governance policies and rules that implement the high-level strategy and objectives of a governance program.

Wer sollte teilnehmen:

Zielgruppe

Audience

This is a basic course for those who will be using the Information Governance Catalog to develop and implement their information governance strategy.

Voraussetzungen

Prerequisites

Those taking this course should have basic knowledge of the Windows operating system. Familiarity with Information Server products is desirable but not required

Trainingsprogramm

Course Outline

1. Introduction to the Information Governance CatalogDescribe information governanceDescribe how the Information Governance Catalog supports information governanceDescribe the IBM Information Server environment that Information Governance Catalog is a part ofDescribe the governance role of the Information Governance Catalog within Information Server2. Building a Business GlossaryDescribe categories and termsDescribe the category

hierarchyDescribe the kind of information in categories and termsDescribe how to create categories and terms3. Governance Policies and RulesDescribe policies and rulesDescribe the rules hierarchyDescribe the kind of information in policies and rulesDescribe how to create policies and rules4. Catalog WorkflowDescribe Information Governance Catalog security rolesDescribe Catalog workflowCreate a new category and mark it for reviewReview a categoryEdit the category based on the reviewer's feedbackApprove a categoryPublish the CatalogIBM InfoSphere Stewardship Center5. Catalog ManagementRestrict access to Catalog contentCreate labelsManage stewardsCreate custom attributesImport and export a business glossary6. IBM Glossary AnywhereConfigure IBM Glossary AnywhereSearch for governance assets using IBM Glossary AnywhereUse text capture to search for governance assets7. Information Governance Dashboard (optional)Explore the Information Governance DashboardDrilling down in the Cognos charts

Objective

Please refer to course overview

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

2. Aug 2023	22. Nov 2023

IBM KM700G - IBM BigIntegrate for Data Engineers v11.5.0.2

Live Online oder Präsenz

Dauer : 8h00

Nr. : 30357

Preis : 800,00 € netto
952,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

Teaches data engineers how to run DataStage jobs in a Hadoop environment. You will run jobs in traditional and YARN mode, access HDFS files and Hive tables using different file formats and connector stages.

Wer sollte teilnehmen:

Zielgruppe

Audience

This course is intended for Analysts and Contributors.

Voraussetzungen

Prerequisites

- Knowledge of OLAP fundamentals is recommended

Trainingsprogramm

Course Outline

Introductions to BigData and BigQualityYARN for dynamic DataStage job allocationTracing and debugging in YARN modeUsing log filesUnderstanding configuration parametersAccessing Hadoop data using WebHDFS and HttpFS and using various connector stages

Objective

Please refer to course overview

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

7. Aug 2023	27. Nov 2023

IBM O3100G - Watson Explorer Foundational Components (v11)

Live Online oder Präsenz

Dauer : 32h00

Nr. : 30247

Preis : 3.200,00 € netto
3.808,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

In this course, you will learn the core features and functionality of Watson Explorer Foundational Components. This core functionality is found in all editions of Watson Explorer (Enterprise and Advanced edition).

This course is designed to introduce the technical student to using the enterprise search functionality in creating applications using the Search Engine and Application Builder capabilities. In this course will look at configuring search collection and engine components for ingesting, converting, indexing, and querying. This course will also introduce you to the design process of creating an Application Builder 360-degree application.

This course offers hands-on labs giving students exposure to the various aspects of configuring components that will be used in solutions that will involve Watson Explorer Foundational Components functionality.

Wer sollte teilnehmen:

Zielgruppe

Audience

This is an intermediate course for Solution Architects/Designers, Software Architects/Engineers, and Software Developers who will develop, deploy, manage and/or maintain Watson Explorer Enterprise Search and 360-Degree applications.

Voraussetzungen

Prerequisites

- Basic knowledge of the use of search in enterprise applications
- Knowledge of accessing enterprise resources
- Knowledge of XML and the usage of XSL (XSLT/XPath)
- Knowledge of coding applications using an API framework, compiled language, or scripting language.

Trainingsprogramm

Course Outline

The main focus is on using the Foundational Components functionality in support of the development of your discovery, enterprise search and 360-degree solution needs.

- Understand the technical challenges Foundational Components helps you to solve, its architecture, and what major use cases it addresses.
- Become familiar with project, collections, and sources component capabilities along with the role they play in your enterprise discovery/search solutions.
- Become familiar with the crawling processing by configuring the crawler, converter and indexer collection component functionality.
- Become familiar with the query result configuration capability using the source, clustering, and display component functionality.
- Build an Application Builder discovery 360-degree view application using search indexed data.

Objective

Please refer to course overview

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

31. Jul 2023 bis 3. Aug 2023	7. Nov 2023 bis 10. Nov 2023

IBM O3110G - Watson Explorer Analytical Components (v11)

Live Online oder Präsenz

Dauer : 32h00

Nr. : 30144

Preis : 3.200,00 € netto
3.808,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

In this course, you will learn the core features and functionality of Watson Explorer Analytical Components. This functionality is found in Watson Explorer Advanced Edition. The Advanced Edition also includes the Foundational Components functionality which is covered in a separate 4 day course (O3100).

This course is designed to introduce the technical student to using the content analytics, annotator, and content mining functionality. This primary functionality is found in an Analytics collections crawling, parsing, indexing, annotating, and searching components. In this course we will look at the results of analytic collections thru the products Content Miner application. This course will also look at creating and deploying a custom annotator using Content Analytics Studio.

This course offers hands-on labs giving students exposure to the various aspects of configuring analytics collections and creating custom annotators that can be used in solutions that will involve Watson Explorer Analytical Components functionality.

Wer sollte teilnehmen:

Zielgruppe

Audience

This is an intermediate course for System Administrators, Solution Architects/Designers, Software Architects/Engineers, and Software Developers who will deploy, manage and/or administer IBM Watson Explorer Advanced Edition (Analytical Components).

Voraussetzungen

Prerequisites

- Basic knowledge of Enterprise Content Management concepts
- Basic knowledge of the challenges in processing text
- Knowledge of accessing enterprise resources
- Knowledge of development using a programming/scripting language

- Knowledge of structured/unstructured data formats

Trainingsprogramm

Course Outline

The main focus is on using the Analytical Components functionality so you can decide how its capability can be used meet your content analytics and content mining solution needs.

- Understand the functional architecture of Watson Explorer Analytical Components.
- Be able to create and configure a text analytics collection
- Be able to do content analytics mining using the Content Analytics Miner application
- Be able to use the Content Analytics Studio to create an annotator
- Understand how to customize using the customization features of the Administration Console and Content Analytics Miner.
- Be able to explain how to administer Content Analytics using the Administration Console
- Understand the security options

Objective

Please refer to course overview

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

7. Aug 2023 bis 10. Aug 2023	7. Nov 2023 bis 10. Nov 2023

IBM O3201G - Fundamentals of IBM Watson Explorer Deep Analytics Edition oneWEX (V12.0.x)

Live Online oder Präsenz

Dauer : 16h00

Nr. : 30027

Preis : 1.600,00 € netto
1.904,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course is designed to teach students core concepts of IBM Watson Explorer Deep Analytics Edition oneWEX. Students will learn to identify the oneWEX platforms as well as the process flow and data flow of oneWEX projects. Students will explore oneWEX tools, such as Content Miner and the Admin Console, while gaining hands-on experience in data acquisition and enrichment. Finally, students will be exposed to more advanced topics, such as Application Builder, Content Analytics Studio, and API usage.

Wer sollte teilnehmen:

Zielgruppe

Audience

This course is for analysts, developers, and administrators of IBM Watson Explorer Deep Analytics Edition oneWEX.

Voraussetzungen

Prerequisites

None

Trainingsprogramm

Course Outline

Overview of oneWEXIntroduction to oneWEXExplore oneWEX architectureIdentify installation optionsNavigation in oneWEXExplore the Admin ConsoleExplore navigation using Content MinerThe Collection detail viewThe REST APIData flowExplore the data flow of oneWEXSearch and Analytics collection templatesIdentify data acquisitionData ingestionWork with datasetsWork with crawlersUse an importerExplore conversionData ingestion log filesAnalysis

using oneWEX Content MinerExplore analysis using Content MinerThe Guided Analysis ExperienceThe Guided Analysis viewExplore AnnotatorsEnrichment using AnnotatorsAnnotator typesEnrichment using LabelerIdentify enrichmentIdentify document classificationClassify using training dataClassification versus clusteringThe document classification processEnrichment using RankerIdentify enrichment using RankerThe ranking processMigrate annotators from Content Analytics StudioMigrate Content Analytics Studio annotatorsIdentify the UIMA pipeline configuration for oneWEXUpdate annotatorsUsing Application Builder with oneWEXApplication Builder and user rolesExplore Application BuilderSet up a oneWEX data sourceFunctionality for oneWEX data sources

Objective

Identify oneWEX platforms
Identify the process and data flows of oneWEX projects
Explore the oneWEX user interface
Explain ingestion and conversion
Utilize Content Miner
Define enrichment
Identify advanced features of oneWEX

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

15. Aug 2023 bis 16. Aug 2023	14. Nov 2023 bis 15. Nov 2023

IBM P8221G - IBM Cognos Controller: Develop Applications (v10.2/v10.3)

Live Online oder Präsenz

Dauer : 40h00

Nr. : 30143

Preis : 4.000,00 € netto
4.760,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course teaches application developers how to set up a Controller application and effectively use Controller in their organization’s consolidation process. Students will also design and generate financial reports using Controller. Through a series of lectures and hands-on exercises, students will set up a Controller application by creating the necessary structures (such as accounts and companies), and then test the application to ensure that it works properly. Students will also learn how to work with currency translation, allocations, intercompany transactions, investments in subsidiaries, advanced formula calculations, and user-defined business rules, as well as define configuration settings and user access to the application.

Wer sollte teilnehmen:

Zielgruppe

Audience

Application Developers

Voraussetzungen

Prerequisites

Basic knowledge of group accounting

Trainingsprogramm

Course Outline

Create companies, consolidation types, and account structuresCreate and organize forms for entering data into the Controller applicationGenerate movement accounts to show changes to data over timeCreate extended dimensions to enhance data analysisLink structures to customize end users’ access to Controller dataDefine and schedule the data entry processTest the Controller application setupAdjust data through journal entriesTranslate foreign

currenciesEnable automatically created journal entriesAllocate valuesReconcile and eliminate intercompany transactionsWork with shareholdings and investments in group companiesCalculate and eliminate acquisition valuesConsolidate a group’s reported valuesDefine security restrictions to different parts of the applicationEliminate intercompany profitCreate complex stored calculationsCustomize the consolidation process using user-defined business rules (UDBRs)Create ad hoc reports to quickly analyze and compare figuresRun standard reports to verify and analyze data for consolidationCreate custom reports using the Report GeneratorCreate, modify, and run reports in Excel using the Excel LinkRun multiple reports simultaneously by grouping reports into report booksIdentify different consolidation models (Optional)

Objective

Please refer to course overview

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

21. Aug 2023 bis 25. Aug 2023	20. Nov 2023 bis 24. Nov 2023

IBM P8222G - IBM Cognos Controller: Author Reports (v10.2/v10.3)

Live Online oder Präsenz

Dauer : 8h00

Nr. : 30217

Preis : 800,00 € netto
952,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course teaches authors, with basic knowledge of group accounting and Microsoft Excel, how to design and generate financial reports using IBM Cognos Controller. Students will learn how to create ad hoc and standard reports to analyze data. They will also develop custom reports using the Report Generator utility and the Excel Link. In addition, students will learn how to run multiple reports at the same time with report books.

If you are enrolling in a Self Paced Virtual Classroom or Web Based Training course, before you enroll, please review the Self-Paced Virtual Classes and Web-Based Training Classes on our Terms and Conditions page, as well as the system requirements, to ensure that your system meets the minimum requirements for this course. /terms

Wer sollte teilnehmen:

Zielgruppe

Audience

Authors

Voraussetzungen

Prerequisites

Basic knowledge of group accounting
Basic knowledge of Microsoft Excel

Trainingsprogramm

Course Outline

Create ad hoc reports to quickly analyze and compare figuresRun standard reports to verify and analyze data for consolidationCreate custom reports using the Report GeneratorCreate, modify, and run reports in Excel using the

Excel LinkRun multiple reports simultaneously by grouping reports into report books

Objective

Please refer to course overview

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

28. Aug 2023	27. Nov 2023

IBM P8357G - IBM Planning Analytics: Analyze Data and Create Reports (V2.0.x)

Live Online oder Präsenz

Dauer : 16h00

Nr. : 30267

Preis : 1.600,00 € netto
1.904,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course is designed to teach analysts how to use IBM Planning Analytics to analyze data to discover trends and exceptions, create and customize reports and templates, and contribute data to plans. Through a series of lectures and hands-on activities, you will learn how use Planning Analytics Workspace and Planning Analytics for Microsoft Excel to create analyses, enter data, create custom views and dashboards, and build formatted reports and forms.

Wer sollte teilnehmen:

Zielgruppe

Audience

Analysts

Voraussetzungen

Prerequisites

- Knowledge of your business requirements
- Basic knowledge of Microsoft Excel

Trainingsprogramm

Course Outline

Understanding IBM Planning Analytics dataUnderstanding modelsUnderstanding cubesUnderstanding dimensionsUnderstanding viewsUnderstanding sets

Creating booksCreating booksAdding contentCreating new sheetsSaving, closing, and opening views

Creating and saving viewsCompare two views of the same cubeCreate new viewsSave a view

Changing the way data is displayedMove and filter dimensionsShow different levels of detailCreate an asymmetric viewDisplay cells as percentagesAdd top or bottom filtersShow attributes for dimension members

Displaying specific members by using setsDisplay existing setsAdd, remove, and reorganize members in a setFind members by using searches and filtersView attributesSave setsEdit a set

Adding calculations to viewsAdd summary calculationsAdd member calculationsRemove and rename calculations

Highlighting exceptions by using conditional formattingApply conditional formattingAdd an additional condition

Entering dataDistribute data to multiple cells by using data spreadingEnter and hold data using quick commandsCopy and paste and use calculationsAdd a comment to a cell

Experimenting with data by using sandboxesCreating sandboxesComparing sandboxesCommitting data and deleting sandboxes

Working with spreadsheets online by using websheetsFind and add websheets to your bookExplore websheets

Formatting for reportingCreating a new viewFormatting the view for reporting

Exploring data by using visualizationsExamine different visualizationsCustomize a visualization

Creating dashboardsAdding and reusing objectsSynchronizing objectsNavigating the book and perform tasks by using buttonsChanging the appearance of a viewHiding informationProven Practices for Dashboards

Examining performance by using scorecardsReading scorecardsAdding scorecards to a book

Exporting dataExporting a view to Microsoft Excel

Introduction to IBM Planning Analytics for Microsoft ExcelExamining report types

Exploring data in Planning Analytics for Microsoft ExcelConnect to a system, and add an ExplorationDisplay different dimension membersModify and save the view

Create reports easily by using Quick ReportsConvert an Exploration to a Quick ReportDrag a view to add a Quick ReportSynchronize reports by using cell referencingChange members on rows or columnsAdd columns or rows and apply stylesApply custom formatting

Expanding and formatting members by using Dynamic ReportsCreate and explore a Dynamic ReportFormatting the Dynamic ReportRebuild the Dynamic Report

Exploring TM1 functionsExamine the TM1 functions in a Dynamic ReportDerive rows based on saved setsDerive rows based on MDXCreate custom format definitionsCreate custom columnsAdd new sections and multiple Dynamic Reports to a single sheet

Creating Custom ReportsCreate two custom reportsCombine the two reports

Entering Data in Planning Analytics for Microsoft ExcelEntering data in cube viewerEntering data in Dynamic ReportsEntering data in Explorations and Quick ReportsUsing Sandboxes to experiment with data

Simplify tasks by using action buttonsEnable action buttonsAdd an action button to navigate to another worksheetEdit an action buttonCreate an action button that rebuilds a worksheet

Creating websheetsPublish a websheetManage websheetsAdd the websheet to a Planning Analytics Workspace book

Objective

- Understanding IBM Planning Analytics data
- Creating books
- Creating and saving views
- Changing the way data is displayed
- Displaying specific members by using sets
- Adding calculations to views
- Highlighting exceptions by using conditional formatting
- Entering data
- Experimenting with data by using sandboxes

- Working with spreadsheets online by using websheets
- Formatting for reporting
- Exploring data by using visualizations
- Creating dashboards
- Examining performance by using scorecards
- Exporting data
- Introduction to IBM Planning Analytics for Microsoft Excel
- Exploring data in Planning Analytics for Microsoft Excel
- Create reports easily by using Quick Reports
- Expanding and formatting members by using Dynamic Reports
- Exploring TM1 functions
- Creating Custom Reports
- Entering Data in Planning Analytics for Microsoft Excel
- Simplify tasks by using action buttons
- Creating websheets

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

19. Jun 2023 bis 20. Jun 2023	13. Nov 2023 bis 14. Nov 2023

IBM P8362G - IBM Planning Analytics: Design and Develop Models in Planning Analytics Workspace (V2.0.x)

Live Online oder Präsenz

Dauer : 40h00

Nr. : 30230

Preis : 4.000,00 € netto
4.760,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course is designed to teach modelers how to build a complete model in IBM Planning Analytics using Planning Analytics Workspace. Through a series of lectures and hands-on exercises, students will learn how to set up dimensions and cubes, manually enter data into these structures, and define the data that users can see. Students will also learn how to transfer data into the IBM Planning Analytics model, including the use of TurboIntegrator scripts to perform data transfer. In addition, the course outlines how to customize drill paths, convert currencies, and model for different fiscal requirements.

Wer sollte teilnehmen:

Zielgruppe

Audience

Data Modelers

Voraussetzungen

Prerequisites

- Knowledge of your business requirements
- IBM Planning Analytics: Analyze Data and Create Reports (V2.0.x)

Trainingsprogramm

Course Outline

Overview of IBM Planning Analytics Modeling in IBM Planning Analytics: overview IBM Planning Analytics: data tier In-memory data storage Calculating versus caching data Important files in TM1 Create dimensions What is a dimension? What are weights? Time dimensions Member attributes Hierarchies Load and maintain data What is

TurboIntegrator? Defining data sources and process parameters in TurboIntegrator Validate and run processes TurboIntegrator chores Add business rules What are rules? How do you create a rule? Review rule processing Use a rule to override aggregation Use a function in a rule Optimize rule performance Understanding consolidations and sparsity Optimize your rules using SKIPCHECK Using feeder statements Inter-cube feeders Feeding string rules Trace cell values and feeders Transfer data into your model Link cubes with different dimensions Review TurboIntegrator Dealing with data Use IBM Planning Analytics as a data source Tips for scripting in TurboIntegrator Customize drill paths View related data Create a drill path Use rules for advanced modeling Describe a virtual cube Utilize a lookup cube Use relative spreading and a spread profiles cube Use attributes in rules Convert currencies Converting currency: overview Review control cubes Model for different fiscal requirements Understanding time Discrete time dimensions Continuous time dimensions Develop a continuous time model

Objective

- Overview of IBM Planning Analytics
- Create dimensions
- Load and maintain data
- Add business rules
- Optimize rule performance
- Transfer data into your model
- Customize drill paths
- Use rules for advanced modeling
- Convert currencies
- Model for different fiscal requirements

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

26. Jun 2023 bis 30. Jun 2023	20. Nov 2023 bis 24. Nov 2023

IBM ZZ720G - InfoSphere MDM Virtual Foundation V11.4

Live Online oder Präsenz

Dauer : 24h00

Nr. : 30224

Preis : 2.400,00 € netto
2.856,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course is designed as the starting point for any technical specialist working with the InfoSphere MDM Virtual module. This course walks you through the major components of the InfoSphere MDM Virtual module, the data model, the matching engine and how customization can be implementated. You will learn how to invoke the InfoSphere MDM interactions and the various configuration and extension points of a service. The course is also used as an intro to various compoments that make up the MDM Architecture and prepares you to identify how the MDM will fit into their organization and what pieces may be customize to fit their business requirements.

This course has a heavy emphasis on the exercises, where you will deploy a new MDM configuration, invoke interactions, walk through the default matching algorithm, and create a custom handler and composite view.

At the end of this course, it is expected that you will feel comfortable implementating a new Virtual configuration data model, invoking interactions and creating customization to the Virtual MDM.

Wer sollte teilnehmen:

Zielgruppe

Audience

This intermediate course is for technical specialist who will be developing a solution using the InfoSphere MDM Virtual Module.

Voraussetzungen

Prerequisites

There are no prerequisites to this course.

Trainingsprogramm

Course Outline

Unit 1: MDM and the Enterprise

- MDM Overview and Scenarios
- MDM implementation stypes
- Virtual and Physical Modules

Unit 2: Architecture

- InfoSphere MDM Architecture and Components
- Core Processes

Unit 3: MDM Virtual Data Model

- Metadata
- Member Tables
- Entity Tables
- Relationships
- Audit Tables
- Tasks

Unit 4: How InfoSphere MDM services are Invoked

- Java API and Web Services
- Brokers
- eSOA Toolkit
- REST Interface
- Master Data Extract

Unit 5: Linking and Duplicates

- Probabalistic Matching Engine
- Algorithms
- Weights
- Virtual Module Linking

Unit 6: How Services are Configured (Virtual)

- Event Notifications
- Callout Handlers
- Composite Views

Unit 7: Other Components

- Loggin and Serviceability
- Quality Stage Standardization
- Security
- Hybrid
- Application Toolkit

Agenda :

Day 1

- Unit 1: MDM and the Enterprise

- Unit 2: Architecture
- Unit 3: MDM Virtual Model

Day 2

- Unit 4: How InfoSphere MDM services are Invoked
- Unit 5: Linking and Duplicates

Day 3

- Unit 6: How Services are Configured
- Unit 7: Other Components

Objective

- Understand the InfoSphereVirtual MDM Architecture and how an interaction on the Virtual MDM are handled
- Understand the Configuration Points of the InfoSphere MDM
- Understand the Tables of the Virtual MDM
- Understand the Configuration Points of the InfoSphere MDM Virtual Hub
- Understand the Common components Virtual MDM

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

28. Jun 2023 bis 30. Jun 2023	8. Nov 2023 bis 10. Nov 2023

IBM ZZ780G - InfoSphere MDM Algorithms V11

Live Online oder Präsenz

Dauer : 24h00

Nr. : 30289

Preis : 2.400,00 € netto
2.856,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

Do you want to find match member records, link member records, and perfect a search algorithm for your InfoSphere MDM Virtual and Physical implementation? Then this course is designed for you.

The InfoSphere MDM Algorithms V11 course prepares you to work with and customize the algorithm configurations deployed to the InfoSphere MDM Probabilistic Matching Engine (PME) for a Virtual and Physical MDM implementations. The PME is the heart of all Matching, Linking, and Searching for entities (Person, Organization, etc) that exist in InfoSphere MDM.

This course has a heavy emphasis on the exercises, where you will implement the customization discussed in the course to perform matching, linking, and searching on fields not provided by the default implementation.

At the end of this course it is expected you will feel comfortable customizing an algorithm for the PME for a Virtual and Physical MDM implementations.

Wer sollte teilnehmen:

Zielgruppe

Audience

This advanced course is for Business and Technical Specialist working with the Matching, Linking, and Search services of InfoSphere MDM.

Voraussetzungen

Prerequisites

You should have completed:

- (1Z801)

or experience with InfoSphere MDM

Trainingsprogramm

Course Outline

Content

PME and Virtual Overview

- Virtual MDM Overview
- Terminology (Source, Entity, Member, Attributes)
- PME and Virtual MDM (Algorithms, Weights, Comparison Scores, Thresholds)
- Virtual MDM Linkages and Tasks

Virtual MDM Algorithms

- Standardization
- Bucketing
- Comparison Functions
- Exercise: Creating a new Algorithm

Virtual PME Data Model

- Algorithm configuration tables
- Member Derived Data
- Bucketing Data
- Exercise: Loading Members and viewing Algorithm and Derived data

Bucket Analysis

- Analysis Overview
- Attribute Completeness
- Bucket Analysis
- Exercise: Analyzing our Buckets

Weights

- Weights Overview (Frequency-based weights, Edit Distance weights and Parameterize weights)
- The weight formula
- Running weight generation
- Analyzing weights
- Exercise: Generate Weights and analyzing weight distribution

Threshold

- Bulk Cross Match process
- Pair Manager
- Threshold calculations
- Entity Analytics
- Exercise: Threshold Calculations
- Exercise: Pair Manager
- Exercise: Testing our algorithm

PME and Physical Overview

- Physical MDM Overview

- Terminology (Entity, Critical Data, Business Object)
- PME and Physical MDM (Algorithms, Weights, Comparison Scores, Thresholds)
- Physical MDM Suspect Duplicate Processing
- Physical MDM Probabilistic Search
- Exercise: Testing the default Physical PME algorithm

Physical PME Data Model and Mapping

- Default Physical BObjs and mapping to PME
- Virtual Party Template
- Default Party Configuration project
- Exercise: Loading default Physical PME Configuration project

Physical MDM Algorithms

- Standardization
- Bucketing
- Comparison Functions
- Exercise: Explore and customize the default Physical Algorithm
- Exercise: Analyzing our Buckets
- Exercise: Generate Weights
- Exercise: Deploying the Physical MDM PME Configuration

Physical MDM PME Adapters and Converters

- MDM PME Adapter overview
- MDM Outbound and Inbound Converters
- Exercise: Creating a custom converter

Agenda:

Day 1

- Unit 1: PME and Virtual Overview
- Unit 2: Virtual MDM Algorithms
- Unit 3: Virtual PME Data Model

Day 2

- Unit 4: Bucket Analysis
- Unit 5: Weights
- Unit 6: Threshold

Day 3

- Unit 7: PME and Physical Overview
- Unit 8: Physical PME Data Model and Mapping
- Unit 9: Physical MDM Algorithms
- Unit 10: Physical MDM PME Adapters and Converters

Objective

- Understand how Matching and Linking work for both the Virtual Implementations of InfoSphere MDM
- Learn how Duplicate Suspect Processing and Search (using PME) work for Physical Implementations of InfoSphere MDM
- Know and understand the MDM configuration project and database tables used by the PME

- Understand the PME Algorithms (Standardization, Bucketing and Comparison steps) and how to create and customize the algorithms using the workbench
- Learn how to analyze the Bucketing steps in an algorithm
- Understand how to generate weights for a given algorithm and how those weights are generated based on a sample database set.
- Understand how to analyze the weights that are generated using the workbench
- Learn how to deploy the PME configuration for the Virtual implementations of InfoSphere MDM.
- Understand how to deploy the PME configuration for a Physical implementation of InfoSphere MDM.
- Understand the integration between the Physical module and the PME

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

4. Jul 2023 bis 6. Jul 2023	14. Nov 2023 bis 16. Nov 2023

IBM ZZ820G - InfoSphere MDM Architecture V11

Live Online oder Präsenz

Dauer : 24h00

Nr. : 30256

Preis : 2.400,00 € netto
2.856,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course is designed for anyone who wants to get an understanding of the InfoSphere MDM Architecture (including the Virtual and Physical Hubs). This course walks you through the major components of the InfoSphere MDM and how each component interacts. You will learn how InfoSphere MDM responds once a service is invoked and the various configuration and extension points of a service. The course is used as an introduction to various components that make up the MDM Architecture and prepares you to identify how MDM will fit into their organization and what pieces may be customized to fit their business requirements.

The next courses that may be of interest to you include:

- Data Model and Service Mapping for the InfoSphere MDM Advanced Edition V10 (ZZ610)
- Customizing the InfoSphere MDM Advanced Edition V10 (ZZ640)
- IBM InfoSphere MDM Server Service Customization for MDM Server 9 (ZZ340)
- InfoSphere MDM Server User Interface Generator (DC560)

Wer sollte teilnehmen:

Zielgruppe

Audience

This intermediate course is designed for the following participants who want to get an understanding of the InfoSphere MDM Architecture (including the Virtual and Physical Hubs):

- Infrastructure Specialist
- Senior Technical Specialist
- Technical Specialist
- Support Engineers
- System Architects

Voraussetzungen

Prerequisites

It is recommended you have:

- Working knowledge Java EE architecture

Trainingsprogramm

Course Outline

Unit 1: MDM and the Enterprise

- Physical, Virtual and Hybrid Hubs
- Working with Physical Hub
- Working with Virtual Hub
- Working with Hybrid Hub

Unit 2: Architecture

- Big Picture
- How InfoSphere MDM Works
- Architecture Overview

Unit 3: MDM Physical Model

- Party Domain
- Account Domain
- Product Domain
- Metadata
- Common Domain

Unit 4: MDM Virtual Model

- Member Tables
- Dictionary Tables
- Entity and Relationship Tables
- Audit Tables

Unit 5: How InfoSphere MDM services are Invoked

- InfoSphere MDM Consumers
- How Services are invoked
- How Services are Handled

Unit 6: How Services are implemented

- Handing Physical Hub Services
- Handing Virtual Hub Services

Unit 7: Linking and Duplicates

- Probabalistic Matching Engine
- Algorithms
- Bucketing
- Standardization

- Comparison Functions
- Weights
- Physical Hub Suspect Processing
- Virtual Hub Linking

Unit 8: How Services are Extended (Physical Hub)

- Types of Extensions
- Data Extension
- Data Additions
- Specs
- Behavior Extensions
- Composite Services

Unit 9: How Services are Configured (Virtual)

- Data Model Customizations
- Algorithms
- Handlers
- Events
- Composite Views

Unit 10: Common Services

- External Rules
- Validation
- Rules of Visibility
- Configuration
- Standardization
- Logging and Servicibility
- Multi-Timezone
- Search Framework

Unit 11: Integration

- Information Server
- BPM
- Identity Insight

Agenda :

Day 1

- Unit 1: MDM and the Enterprise
- Unit 2: Architecture
- Unit 3: MDM Physical Model
- Unit 4: MDM Virtual Model

Day 2

- Unit 5: How InfoSphere MDM services are Invoked
- Unit 6: How Services are implemented
- Unit 7: Linking and Duplicates
- Unit 8: How Services are Extended (Physical Hub)

Day 3

- Unit 9: How Services are Configured (Virtual)
- Unit 10: Common Services
- Unit 11: Integration

Objective

- Understand the InfoSphere MDM Architecture and how a service on the Virtual and Physical Hub are handled
- Understand the Configuration Points of the InfoSphere MDM
- Understand the Core Data Entities of the Physical Hub and their relationship to each other
- Understand the Tables of the virtual Hub
- Understand the Extension Points of the InfoSphere MDM Physical Hub
- Understand the Configuration Points of the InfoSphere MDM Virtual Hub
- Understand the Common components and services of the Physical and Virtual Hubs

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

11. Jul 2023 bis 13. Jul 2023	21. Nov 2023 bis 23. Nov 2023

IBM ZZ840G - InfoSphere MDM Workbench V11

Live Online oder Präsenz

Dauer : 24h00

Nr. : 30346

Preis : 2.400,00 € netto
2.856,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course is designed for anyone who wants to get an understanding of how to use and customize the InfoSphere Master Data Management using the InfoSphere MDM Workbench. This course takes a participant through the process customizing both the Virtual and Physical MDM using the InfoSphere MDM Workbench. The focus of the course is on the core features of the Workbench: Creating a Physical MDM Addition, creating a Physical MDM Extension, creating a Physical MDM Behavior Extension, creating a composite service, deploying a Virtual MDM configuration, configuring the Virtual Data Model, creating a Virtual custom Composite View, creating a Virtual Callout Handler, generating an enterprise service interface using the Virtual data model and customizing a Hybrid implementation. For each core area, the instructor will explain the high-level concepts, have the participants work with the feature and then demo and review the feature details. Heavy emphasis is put on exercises and activities, allowing course participants to apply the knowledge that they learn in the classroom, after course conclusion.

Wer sollte teilnehmen:

Zielgruppe

Audience

This advanced course is for Infrastructure Specialist, Senior Technical Specialist,Technical Specialist, Support Engineers, and System Architects.

Voraussetzungen

Prerequisites

You should have attended:

- InfoSphere MDM Physical Domains V11.4 (ZZ930)

It is also recommended that you have working knowledge of Java development and XML concepts as it will be used during the exercises.

Trainingsprogramm

Course Outline

CONTENTS:

Introduction

- InfoSphere MDM Architecture
  - Virtual, Physical and Hybrid MDM
  - Request/Response Framework
  - Core Physical MDM
  - Core Virtual MDM
- OSGi and MDM
- Physical MDM Data Additions
  - Additions Architecture
  - Creating an MDM Module Project
  - Creating an Addition
  - Core Property Files
  - Custom Code Tables
- Physical MDM Data Extensions
  - Extensions Architecture
  - Creating an Extension
- Physical MDM Behavior Extensions
  - Behavior Extensions Architecture
  - Creating an Behavior Extension
- Composite Services
  - XML Composite Services
  - Java (Business Proxy) Composite Services
- Adaptive Service Interface (ASI)
  - How ASI fits into the InfoSphere MDM Architecture
  - How to build an new Service Mapping
  - How to tailor service for your organization
- Virtual Data Model
  - Virtual data model
  - Creating a new MDM Virtual Attribute Type
  - Deploying the Virtual Configuration
- Virtual Handlers
  - Callout Handlers
  - Event Handlers
  - Composite View Handlers
- eSOA Toolkit
  - Understand the eSOA Toolkit
  - Generate java and WebService client
- Hybrid MDM

    - Hybrid MDM assets
    - Hybrid MDM service flow
    - Hybrid MDM Customizations

- AGENDA:
- Day 1
    - Unit 1: InfoSphere MDM Architecture
    - Unit 2: OSGi and MDM

- Physical MDM

- Unit 3: Data Additions
- Exercise 1: Additions
- Unit 4: Physical Data Extensions
- Exercise 2: Extensions - New Person Attribute

- Day 2
    - Unit 5: MDM Physical Behavior Extensions
    - Exercise 3: Behavior Extension
    - Unit 6: Composite Services
    - Exercise 4: Composite Services
    - Unit 7: Adaptive Services Interface (ASI)

- Virtual MDM
    - Unit 8: Virtual Data Model
    - Exercise 5: Creating a Custom Attribute Type

- Day 3
    - Unit 9: Virtual Handlers
    - Exercise 6: Callout Handler
    - Exercise 7: Custom Composite View
    - Unit 10: eSOA Toolkit
    - Exercise 8: eSOAToolkig
    - Unit 11: Hybrid MDM
    - Exercise 9: Hybrid Customization

Objective

- Understand the MDM Architecture and how the Physical, Virtual and Hybrid MDM handles a service request
- Understand the core Workbench features available for the InfoSphere MDM
- Understand how MDM using OSGi for deploying customizations to the product
- Create a new Physical MDM Entity using the Workbench Wizard
- Extend an existing Physical MDM Entity using the Workbench Wizard
- Extend an existing Physical MDM Service using the Workbench Wizard
- Create a new Composite Service using a transiant object containing other existing business objects
- Customize and deploy a Virtual configuration
- Create a new Virtual Callout Handler
- Create a new Virtual Composite View
- Generate new Services based on the Virtual configuration (eSOA)
- Customize a Hybrid MDM implementation
- Understand the Adaptive Service Interface (ASI)

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

24. Apr 2023 bis 26. Apr 2023	17. Jul 2023 bis 19. Jul 2023	27. Nov 2023 bis 29. Nov 2023

IBM ZZ870G - InfoSphere MDM Application Toolkit V11.3

Live Online oder Präsenz

Dauer : 16h00

Nr. : 30117

Preis : 1.600,00 € netto
1.904,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

The InfoSphere MDM Application Toolkit course introduces students to the Business Process Manager (BPM) and the Process Designer to create processes that will use MDM data and services.

This course has a heavy emphasis on exercises and takes a participant through creating a process to search and update a customer's address. The search, get and update services are performed against the InfoSphere MDM.

If you are looking to get an introduction to how BPM and MDM can work together using the MDM Application Toolkit, then this course is for you.

Wer sollte teilnehmen:

Zielgruppe

Audience

The advanced course is designed for a technical audience that will be using the InfoSphere MDM Application Toolkit to build processes that involve the Physical or Virtual MDM.

Voraussetzungen

Prerequisites

You should be familiar with:

- The InfoSphere MDM software suite or attend the Introduction to InfoSphere MDM V11.3 (1Z801G) course available online.
- The Business Process Manager software suite or watch the following videos prior to attending class:

- Getting Started with IBM Business Process Manager V8.5.5 - https://www.youtube.com/watch?v=ktxvGBywj3I
- Getting Started with IBM Process Designer V8.5.5 - https://www.youtube.com/watch?v=OE497cRDQrY
- Getting Started with IBM Process Center V8.5.5 - https://www.youtube.com/watch?v=RYZRHp_oJRU
- Getting Started with IBM Process Admin Console V8.5.5 - https://www.youtube.com/watch?v=t3NQpYhDZ_U
- Getting Started with IBM Integration Designer V8.5.5 - https://www.youtube.com/watch?v=LEanpWlQ2Zo
- Getting started with IBM Process Portal V8.5.5 - https://www.youtube.com/watch?v=iBdoYyUgEAw

Trainingsprogramm

Course Outline

Day 1

- Unit 1: Introduction to BPM
- Unit 2: Using the Process Designer
  - Exercise: Create a new Process
  - Exercise: Create the User Interfaces

Day 2

- Unit 3: InfoSphere MDM Application Toolkit
  - Exercise: MDM Business Objects
  - Exercise: Integration Services
  - Exercise: MDM Error Handling
  - Exercise: MDM Entity Services
  - Exercise: MDM Code Tables

Objective

- Understand the basic components of the Business Process Manager Designer
- Understand the MDM Application Toolkit components
- Understand the Physical MDM Business Objects and Interaction services
- Understand the Virtual MDM Business Objects and Interaction services
- Create a simple process that uses MDM services
- Design and build a process requiring MDM data
- Handle an Error returned by an MDM Interaction service
- Configure and use an MDM Coach View

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

24. Apr 2023 bis 25. Apr 2023

24. Jul 2023 bis 25. Jul 2023

4. Dez 2023 bis 5. Dez 2023

4. Dez 2023 bis 5. Dez 2023

IBM ZZ880G - Virtual Module Algorithms for InfoSphere MDM V11

Live Online oder Präsenz

Dauer : 16h00

Nr. : 30250

Preis : 1.600,00 € netto
1.904,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

Do you want to find match member records, link member records, and perfect a search algorithm for your InfoSphere MDM Virtual implementation? Then this course is designed for you. The InfoSphere MDM Virtual Module Algorithms V.11 course prepares students to work with and customize the algorithm configurations deployed to the InfoSphere MDM Probabilistic Matching Engine (PME) for Virtual MDM implementations. The PME is the heart of all Matching, Linking, and Searching for entities (Person, Organization, etc) that exist in InfoSphere MDM. This course has a heavy emphasis on the exercises, where the students will implement the customization discussed in the course to perform matching, linking, and searching on fields not provided by the default implementation. At the end of this course, it is expected that students will feel comfortable customizing an algorithm for the PME for Virtual implementations.

Wer sollte teilnehmen:

Zielgruppe

Audience

This intermediate course is for Business and Technical Specialist working with the Matching, Linking, and Search services of InfoSphere MDM Virtual module.

Voraussetzungen

Prerequisites

It is recommended that you take the following course prior to enrolling in this course:

- (1Z801) or experience with InfoSphere MDM

Trainingsprogramm

Course Outline

PME and Virtual Overview

- Virtual MDM Overview
- Terminology (Source, Entity, Member, Attributes)
- PME and Virtual MDM (Algorithms, Weights, Comparison Scores, Thresholds)
- Virtual MDM Linkages and Tasks

Virtual MDM Algorithms

- Standardization
- Bucketing
- Comparison Functions
- Exercise: Creating a new Algorithm

Virtual PME Data Model

- Algorithm configuration tables
- Member Derived Data
- Bucketing Data
- Exercise: Loading Members and viewing Algorithm and Derived data

Bucket Analysis

- Analysis Overview
- Attribute Completeness
- Bucket Analysis
- Exercise: Analyzing our Buckets

Weights

- Weights Overview (Frequency-based weights, Edit Distance weights and Parameterize weights)
- The weight formula
- Running weight generation
- Analyzing weights
- Bulk Cross Match process
- Pair Manager
- Threshold calculations
- Exercise: Generate Weights and analyzing weight distribution
- Exercise: Pair Manager and Threshold Calculations
- Exercise: Testing our algorithm

Agenda:

Day 1

- Unit 1: PME and Virtual Overview
- Unit 2: Virtual MDM Algorithms
- Unit 3: Virtual PME Data Model

Day 2

- Unit 4: Bucket Analysis
- Unit 5: Weights

Objective

- Understand how Matching and Linking work for both the Virtual Implementations of InfoSphere MDM
- Understand the MDM configuration project and database tables used by the PME
- Understand the PME Algorithms (Standardization, Bucketing and Comparison steps) and how to create and customize the algorithms using the workbench
- Understand how to analyze the Bucketing steps in an algorithm
- Understand how to generate weights for a given algorithm and how those weights are generated based on a sample database set
- Understand how to analyze the weights that are generated using the workbench
- Understand how to deploy the PME configuration for the Virtual implementations of InfoSphere MDM

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

26. Apr 2023 bis 27. Apr 2023	26. Jul 2023 bis 27. Jul 2023	6. Dez 2023 bis 7. Dez 2023

IBM ZZ930G - InfoSphere MDM Physical Domains V11.4

Live Online oder Präsenz

Dauer : 24h00

Nr. : 30178

Preis : 2.400,00 € netto
2.856,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

This course is designed for anyone who wants to get an understanding of the Data Domains for the InfoSphere Master Data Management Physical Module. This course takes a comprehensive look at the three core data domains of InfoSphere MDM: Party, Account, and Product. For each of the domains spanned by InfoSphere MDM, participants will be exposed to the data model, services, and rules associated with the main entities of that domain. Heavy emphasis is put on exercises and activities so that the participants can apply the knowledge that they learn after course conclusion.

Wer sollte teilnehmen:

Zielgruppe

Audience

This basic course is designed for those who wants to get an understanding of the Data Domains for the InfoSphere Master Data Management Physical Module such as:

- Infrastructure Specialist
- Senior Technical Specialist
- Technical Specialist
- Product Consultants
- Support Engineers
- Technical Sales and Marketing Personnel
- Sales and Marketing Personnel
- Project Managers
- System Architects

Voraussetzungen

Prerequisites

You should have attended Introduction to InfoSphere Master Data Management V11.3 - WBT (1Z801G) OR have equivalent high-level understanding of InfoSphere MDM.

You should also have:

- High-level understanding of XML and be able to make simple modifications to XML documents.
- Discussed basic relational database concepts and objects such as tables.

Trainingsprogramm

Course Outline

Chapter 1: How InfoSphere MDM Works

- Unit 1: InfoSphere MDM Data Entities
- Unit 2: InfoSphere MDM Business Services
- Unit 3: The Request/Response Framework

Chapter 2: Party Domain

- Unit 1: Core Party Entities
- Unit 2: Location
- Unit 3: Party Identification
- Unit 4: Relationships
- Unit 5: Know You Client
- Unit 6: Suspect Duplicate Processing

Chapter 3: Product Domain

- Unit 1: Core Product Entities
- Unit 2: Product Type Hierarchy
- Unit 3: Product Dynamic Attributes
- Unit 4: Product Structures and Relationships
- Unit 5: Product Category Hierarchy

Chapter 4: Account Domain

- Unit 1: Core Account Entities
- Unit 2: Managed Accounts
- Unit 3: Value Packages

Chapter 5: Common Domain

- Unit 1: Terms and Conditions
- Unit 2: Specifications
- Unit 3: Maintenance Services

AGENDA

Day 1

- Chapter 1: How MDM Server Works
- Chapter 2: Party Domains Units 1-6

Day 2

- Chapter 2: Party Domains Units 7
- Chapter 3: Product Domain

Day 3

- Chapter 4: Account Domain
- Chapter 5: Common Domain

Objective

- Understand the Party Domain and the main Party Entities and Services available in InfoSphere MDM
- Understand the Product Domain and the main Product Entities and Services available in InfoSphere MDM
- Understand the Account Domain and the main Account Entities and Services available in InfoSphere MDM
- Understand the documentation available for the InfoSphere MDM Data Model and Services

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

2. Mai 2023 bis 4. Mai 2023	1. Aug 2023 bis 3. Aug 2023	28. Nov 2023 bis 30. Nov 2023

IBM ZZ981G - InfoSphere MDM Physical Module Algorithms V11

Live Online oder Präsenz

Dauer : 20h00

Nr. : 30105

Preis : 2.400,00 € netto
2.856,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

Do you want to find duplicates and perfect a search algorithm for your InfoSphere MDM Physical implementation? Then this course is designed for you. The InfoSphere MDM V11 Physical Module Algorithms course prepares you to work with and customize the algorithm configurations deployed to the InfoShere MDM Probabilistic Matching Engine (PME) for the Physical MDM implementation.

Wer sollte teilnehmen:

Zielgruppe

Audience

This advanced course is for Business and Technical Specialist working with Suspect Duplicate Processing and Search services of InfoSphere MDM.

Voraussetzungen

Prerequisites

If you are new to MDM, you should take the follwowing courses:

- Introduction to InfoSphere Master Data Management V11.3 - WBT (1Z801G)

If you have experience with InfoSphere MDM, you do not need to take course 1Z801G.

Trainingsprogramm

Course Outline

PME and Physical Overview

- Physical MDM Overview
- Terminology (Entity, Critical Data, Business Object)
- PME and Physical MDM (Algorithms, Weights, Comparison Scores, Thresholds)
- Physical MDM Suspect Duplicate Processing
- Physical MDM Probabilistic Search
- Exercise: Testing the default Physical PME algorithm

Physical PME Data Model and Mapping

- Default Physical BObjs and mapping to PME
- Virtual Party Template
- Default Party Configuration project
- Exercise: Loading default Physical PME Configuration project

Physical MDM Algorithms

- Standardization
- Bucketing
- Comparison Functions
- Exercise: Explore and customize the default Physical Algorithm

Bucket Analysis

- Analysis Overview
- Attribute Completeness
- Bucket Analysis
- Exercise: Analyzing our Buckets

Weights

- Weights Overview (Frequency-based weights, Edit Distance weights and Parameterize weights)
- The weight formula
- Running weight generation
- Analyzing weights
- Bulk Cross Match process
- Pair Manager
- Threshold calculations
- Exercise: Generate Weights
- Exercise: Pair Manager and Threshold Calculations
- Exercise: Deploying the Physical MDM PME Configuration

Physical MDM PME Adapters and Converters

- MDM PME Adapter overview
- MDM Outbound and Inbound Converters
- Exercise: Creating a custom converter

Objective

- Understand how Duplicate Suspect Processing and Search (using PME) work for Physical Implementations of InfoSphere MDM

- Understand the MDM configuration project and database tables used by the PME
- Understand the PME Algorithms (Standardization, Bucketing and Comparison steps) and how to create and customize the algorithms using the workbench
- Understand how to analyze the Bucketing steps in an algorithm
- Understand how to generate weights for a given algorithm and how those weights are generated based on a sample database set.
- Understand how to analyze the weights that are generated using the workbench
- Understand how to deploy the PME configuration for a Physical implementation of InfoSphere MDM.
- Understand the integration between the Physical module and the PME

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

9. Mai 2023 bis 11. Mai 2023	8. Aug 2023 bis 10. Aug 2023	5. Dez 2023 bis 7. Dez 2023

IBM 6XL631G - Troubleshooting IBM Cloud Pak for Data (V4.5)

Live Online oder Präsenz

Dauer : 6h00

Nr. : 30472

Preis : 800,00 € netto
952,00 € inkl. 19 % MwSt.

Inhouse-Paket : Auf Anfrage

Overview

In this course, you learn about common issues that can occur when working as a Cloud Pak for Data administrator. You learn how to troubleshoot them, and verify your acquired knowledge by completing the corresponding hands-on exercises.

These scenarios are general recommendations that might differ depending on your environment, workload, and installed services.

Wer sollte teilnehmen:

Zielgruppe

Audience

Professional administrators of IBM Cloud Pak for Data

Voraussetzungen

Prerequisites

The professional path is the intermediate level, and it is strongly recommended to complete the associate level path for administrators of Cloud Pak for Data before attending the courses in the professional level path. To be successful in this course, you must be familiar with the Cloud Pak for Data installation procedure and basic administrative tasks.

Trainingsprogramm

Course Outline

- Introduction

- Investigate a failing Cloud Pak for Data installation
- Troubleshoot operator issues
- Verify a cluster's health

Objective

After completing this course, you should be able to:

- Troubleshoot a failing installation of Cloud Pak for Data
- Investigate Operator issues
- Verify the Red Hat OpenShift cluster's health
- Troubleshoot common issues types

Schulungsmethode

presentation, discussion, hands-on exercises

Termine und Orte

Live Online Training

2. Mai 2023	19. Jun 2023