



IBM Cognos Framework Manager: Design Metadata Models (v10.2)

Varighed: 5 Days Kursus Kode: B5252G

Beskrivelse:

NOTE: This is a live, instructor-led online course. Do not make arrangements to travel.

IBM Cognos Education is now pleased to offer you our courses in an exciting new learning format, Instructor-led Online (ILO). You are offered

a similar experience to live classroom training, with the convenience of having it delivered directly to their desktop.

IBM Cognos Framework Manager: Design Metadata Models (V10.2) is a five-day, instructor-led online course that 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. You 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.

Målgruppe:

This advanced course is intended for Developers.

Agenda:

Please refer to Course Overview for description information.

Forudsætninger:

Required:

- Knowledge of common industry standard data structures and
- Experience with SQL
- Experience gathering requirements and analyzing data Recommended:
- IBM Cognos Report Studio: Author Professional Reports Fundamentals (V10.2)
- or CBT equivalent

Indhold:

Overview of IBM Cognos BI

- Discuss IBM Cognos and Performance Management
- Describe IBM Cognos components
- Describe IBM Cognos architecture at a high level
- Define IBM Cognos groups and roles
- Explain how to extend IBM Cognos

Identify Common Data Structures

- Examine the characteristics of operational databases and databases designed for reporting
- Examine relationships and cardinality
- Identify different data traps
- Examine dimensional data sources

Gather Requirements

- Examine key modeling recommendations
- Define reporting requirements
- Explore data sources to identify data access strategies

Create a Baseline Project

- Examine the IBM Cognos BI and Framework Manager workflow processes
- Define a project and its structure
- Describe the Framework Manager environment
- Create a baseline project
- Enhance the model with additional metadata

Prepare Reusable Metadata

- Identify facts and dimensions
- Examine relationships, and data traps
- Verify relationships and query item properties
- Ensure efficient filters by configuring prompt properties

Model for Predictable Results: Identify Reporting Issues

- Describe multi-fact queries and when full outer joins are appropriate
- Describe how IBM Cognos BI uses cardinality
- Identify reporting traps
- Use tools to analyze the model

Model for Predictable Results: Virtual Star Schemas

- Identify the advantages of modeling metadata as a star schema
- Model in layers
- Create aliases to avoid ambiguous joins
- Merge query subjects to create as view behavior

Implement a Time Dimension

- Make time-based queries simple to author by implementing a time dimension
- Resolve confusion caused by multiple relationships between a time dimension and another table

Specify Determinants

 Use determinants to specify multiple levels of granularity and prevent double-counting

Create the Presentation View

- Identify the dimensions associated with a fact table
- Identify conformed vs. non-conformed dimensions
- Create star schema groupings to provide authors with logical groupings of query subjects
- Rapidly create a model using the Model Design Accelerator

Work with Different Query Subject Types

- Identify key differences and recommendations for using data source, model, and stored procedure query subjects
- Identify the effects on generated SQL when modifying query subjects, SQL settings and relationships

Set Security in Framework Manager

- Examine the IBM Cognos BI security environment
- Restrict access to packages
- Create and apply security filters
- Restrict access to objects in the model

Create Analysis Objects

- Apply dimensional information to relational Metadata to enable OLAP-style queries
- Define members and member unique names
- Identify changes that impact a MUN
- Sort members for presentation and predictability

Manage OLAP Data Sources

- Connect to an OLAP data source (cube) in a Framework Manager project
- Publish an OLAP model
- Publish a model with multiple OLAP data sources
- Publish a model with an OLAP data source and a relational data source

Model Maintenance and Extensibility

- Perform basic maintenance and management on a model
- Remap metadata to another source
- Import and link a second data source
- Run scripts to automate or update a model
- Create a model report

Optimize and Tune Framework Manager Models

- Identify and implement techniques to optimize and tune your Framework Manager models
- Use Dynamic Query Mode in Framework Manager

Work in a Multi-Modeler Environment

- Segment and link a project
- Branch a project and merge results

Manage Framework Manager Packages

- Specify package languages and function sets
- Control model versioning
- Nest packages

Appendix A: Employ Additional Modeling Techniques

- Leverage a user defined function
- Set the order of operations in a model calculation
- Externalize query subjects
- Prepare IBM Cognos 10 content for use as a data source in Transformer
- Create query sets
- Use external source control through Windows Explorer

Appendix B: Model Multilingual Metadata

 Customize metadata for a multilingual audience

Appendix C: Additional Resources

 Links to sites where the customer can find more information about course-related material. Model for Predictable Results: Consolidate Metadata

- Create virtual facts to simplify writing queries
- Create virtual dimensions to resolve fact-to-fact joins
- Create a consolidated modeling layer for presentation purposes
- Consolidate snowflake dimensions with model query subjects
- Simplify facts by hiding unnecessary codes

Calculations and Filters

- Use calculations to create commonly-needed query items for authors
- Use static filters to reduce the data returned
- Use macros and parameters in calculations and filters to dynamically control the data returned

Advanced Generated SQL Concepts and Complex Queries

- Governors that affect SQL generation
- Stitch query SQL
- Conformed and non-conformed dimensions in generated SQL
- Multi-fact/multi-grain stitch query SQL
- Variances in Report Studio generated SQL
- Dimensionally modeled relational SQL generation
- Cross join SQL
- Various results sets for multi-fact queries

Use Advanced Parameterization Techniques in Framework Manger

- Identify environment and model session parameters
- Leverage session, model, and custom parameters
- Create prompt macros
- Leverage macro functions associated with security

Flere Informationer:

For yderligere informationer eller booking af kursus, kontakt os på tlf.nr.: 44 88 18 00 <u>training@globalknowledge.dk</u>

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