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## COGNOS 8 BI METADATA MODELING - PART 2

**Cognos 8 BI Metadata Modeling - Part 2** is a 2-day, instructor-led course that provides participants with advanced level understanding of the modeling recommendations, as provided in the Cognos 8 BI Metadata Modeling Part 1 course. Participants will review the modeling recommendations for modeling both transactional and dimensional metadata for predictable results, and identify the generated SQL for data source and model query subjects. They will also identify techniques for optimizing and tuning models for performance, modeling for effective drill-through, implementing advanced parameterization, and for managing projects.

### Identify Generated SQL for Modified Query Subjects

- Review recommendations for modeling operational and dimensional metadata to achieve predictable results
- Identify key differences and recommendations for using data source and model query subjects
- Identify the effects on generated SQL when modifying query subjects, SQL settings and relationships

### Identify SQL Generation in Complex Queries

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

### Optimize and Tune Framework Manager Models

- Identify the advantages of materialization of tables at the database
- Examine how to achieve minimized SQL
- Set governors to control query execution
- Examine report and metadata caching
- Specify where query processing and aggregate computation occurs
- Place filters on query subjects to reduce rows
- Set query item properties appropriately
- Limit the number of database connections
- Use the quality of service indicator to provide information about the performance impact of functions
- Examine the PC Optimizer utility for PowerCubes

### Manage Framework Manager Projects

- Implement repository control
- Segment and link a model
- Examine action logging and project synchronization
- Check a project

### Use Advanced Parameterization Techniques in Framework Manager

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

### Manage MUNs and Model for Drill-Through in Framework Manager

- describe model types and data entities
- define members and member unique names
- define a report drill-through
- identify drill-through combinations
- identify conformed drill-through values

### Appendix A: Manage Framework Manager Packages (Optional)

- Create and modify packages
- Specify package languages and function lists
- Analyze the impact of publishing a package
- Publish packages
- Control model versioning
- Nest packages

## **Appendix B: Employ Additional Framework Manager Modeling Techniques (Optional)**

- Externalize query subjects
- Set the order of operations in a model calculation
- Use a stored procedure to update a database
- Create query sets

## **INTENDED AUDIENCE**

This course is intended for data modelers.

## **PREREQUISITES**

- Cognos 8 BI Metadata Modeling - Part 1, or
- Cognos 8 BI Authoring & Modeling FastTrack
- Strong knowledge of data modeling and SQL

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