

Class Name: *Metadata Modeling with IBM Cognos Framework Manager*
Level: Intermediate
Duration: 2.0 days
Audience: SMEs, Business Analysts, BI Professionals
PreReqs: Cognos Report Authoring Experience
Description: Creating Cognos Packages by understanding and making relationships between data sources. Each module concludes with a bullet-point summary quick reference, extensive hands on exercises, and a multi-choice and fill-in-the-blank skills test

Outline: Module Description Time in Hours

DAY 1

- Overview of Database Designs and Uses 1.75
 - Understanding Transactional –vs- Reporting Databases
 - The origination and destination of data
 - Benefits and Detriments of reporting from source types
- Defining the Virtual Star Schema (VSS) .75
 - What is a Data Warehouse (DW)?
 - Considerations for DW design and creation
 - Reporting implications of DW design
 - VSS –vs- DW
- Essential Modeling Design Steps 1.00
 - The 10 key steps in successful model design
 - Implementing modeling techniques
- The Framework Manager (FM) Environment 1.25
 - Opening FM
 - Creating a new Project
 - Organizing Project layout into Namespaces
 - Saving Projects for safety and accessibility
 - Understand the function and files of the Project folder
- Metadata Origination and Organization 1.25
 - Overview of creating data source connections
 - Connecting to a database and import metadata of tables
 - Connecting to files and import metadata
 - Connecting to OLAP sources and import to the Project
- Setting Properties 1.00
 - Define and understand Facts
 - Define and understand Dimensions and dimension types
 - Correctly set Properties on imported metadata
- Understanding Cardinality 1.00
 - Examine natural relationships between tables
 - Understand common database joins
 - Challenges and problems with relationships and joins
 - Describe opportunities and challenges in multi-fact queries

Approximate Total Time **8.00 hrs**

DAY 2

• Developing the Project	2.00
- Understand relevant table relationships	
- Merge tables into Query Subjects	
- Create Fact Table Query Subjects	
• The Time Dimension	.75
- Purpose of the Time Dimension	
- Uses of alternate time dimensions	
- Create alternate time dimensions	
- Create Fact Table Query Subjects	
• Create the Relational View	1.00
- Transform the Consolidation View to the Relational View	
- Using the Star Schema Grouping Wizard	
- Aliases –vs- Shortcuts	
• Add Calculations and Filters	1.50
- Create new Facts with mathematical calculations	
- Create new Query Items with textual calculations	
- Use Functions in Calculations	
- Add Filters into Projects	
- Create Model Filters	
- Create built-in prompt filters	
• Determinants	.75
- Understanding the importance of Determinants	
- Apply determinants to the Time Dimension	
• Create the Dimensional View	1.50
- Use the Dimensional creation wizard	
- Validating the model	
- Ensure proper Fact roll-ups	
• Understanding Member Unique Names (MUNs)	.50
- MUN Types & Design	
- Changes that affect MUNs in reports	
Approximate Total Time	8.00 hrs
Total Course Time	16.00 hrs