Class Name: *Metadata Modeling with IBM Cognos Framework Manager*
Level: Intermediate
Duration: 2.0 days
Audience: SMEs, Business Analysists, BI Professionals
PreReqs: Cognos Report Authoring Experience
Description: Advanced topics in Metadata Modeling and utilizing additional features of Framework Manager. 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: <u>Module Description</u>   <u>Time in Hours</u>

DAY 1

• Using System Parameters in the Project   2.75
     - Environment Parameters
     - Model Session Parameters
     - Uses of Session and Model Parameters in the Project
     - Create prompt Macros
     - Uses of CSV parameters in the Project

• Package Security   1.75
     - Set permissions on first publish
     - Set permissions after publish
     - Permissions on Package elements based on user permissions

• Model Maintenance   2.00
     - Package deployment and modification techniques
     - Use Publish Impact
     - Review Project or Query Subject verification
     - Synchronize projects

• Manage Packages   2.00
     - Modify created Packages
     - Adding additional languages and Function Sets
     - Understand purpose of version controls
     - Nest Packages

DAY 2

• Tune FM Models   2.00
     - Apply Governors
     - The Run-Time Model (RTM)
     - Metadata Caching
     - Control where queries are processed
     - Customize Function definitions

• Advanced SQL and Understanding Complex Queries   2.75
     - Review FM generated SQL
     - Create Data Items with custom SQL
     - Examine derived tables
     - Understand use of Coalesce in queries
     - The difference of Conformed –vs- Non Conformed Dimensions
     - View and configure XSUM and RSUM
     - Compare Relational and Dimensional FM generated SQL
     - Create a Model Report

• Multi-Modeler Environment   1.00
    - Overview of Repository options (CVS/SCCS)
    - Outsource Query Subjects with Segments
    - Import external Project Query Subjects with Links

• Advanced Topics   2.25
    - Create Custom Data Items
    - Documenting Packages for Authors
    - Member Sorting
    - Display Cube Sizes
    - Add Burst Tables into a Project
    - Change Data Source Connections

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**