IBM Cognos Transformer: Design OLAP Models (v10.2)

Duration: 4 Days   Course Code: B5282G

Overview:

IBM Cognos Education is now pleased to offer you our courses in an exciting new learning format, Instructor-led Online (ILO). Students are offered a similar experience to live classroom training, with the convenience of having it delivered directly to their desktop.

IBM Cognos Transformer: Design OLAP Models (V10.2) is a four-day, instructor-led online course that provides developers with knowledge of OLAP modeling concepts using Transformer. Participants will learn how to design, build, and maintain PowerCubes for use in IBM Cognos BI so that end users can easily analyze data.

Target Audience:

This intermediate course is intended for Developers who design OLAP models for use in IBM Cognos BI.

Objectives:

- Please refer to course overview.

Prerequisites:

This offering is intended for Developers who understand the business need for ad hoc queries and analysis, and have experience gathering requirements and analyzing data. It is also recommended that students take the IBM Cognos Report Studio: Author Professional Reports Fundamentals (V10.2) course.

Content:

Overview of IBM Cognos BI

- Discuss IBM Cognos and Performance Management
- Describe IBM Cognos BI components
- Explain how to extend IBM Cognos BI

Transformer Fundamentals

- Discuss the basics of OLAP analysis
- Review Transformer capabilities and its role in IBM Cognos 8 BI
- Discuss Transformer components
- Define categories and members

The Transformer Development Process

- Describe the purpose of a model plan
- Match business requirements to the model
- Discuss an approach for creating a model plan

Data sources in Transformer

- Discuss the types of data used by Transformer
- Create data source files and define properties
- Preview source data and SQL
- Add IBM Cognos data sources to the model
- Discuss data filtering

Building a Model

- Create model structures and modify property sheets
- Confirm the data source origin
- Generate categories to populate the model
- Modify the model using the dimension diagram
- Verify the model and create a PowerCube
- Publish as a data source and package

Considerations for Designing Successful PowerCubes

- Describe model types and data entities
- Define members and member unique names
- Address changes that Impact a MUN
- Discuss when category codes can change

The Time Dimension

- Define a regular time dimension
- Examine standard and nonstandard time dimensions
- Limit the range of valid dates

Relative Time

- Compare trends over time
- Set the current period
- Create relative time categories
- Customize relative time categories

- Describe regular and calculated measures
- Set measure properties
- Compare rollup options
- Create a calculated measure
- Create calculations before or after rollups
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- Determine factors that affect PowerCube build time and user response time
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Advanced Dimensional Modeling

- Discuss techniques for customizing dimensions

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Use Multiple Data Sources

- Discuss the use of multiple data sources
- Plan the data sources
- Define data source types
- Uniqueness
- Identify and resolve conflicts between data sources
- Validate a multiple data source model
- Discuss a unique move

Working with Measures

- Discuss the purpose and uses of measures

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Considerations for Drill Through

- Identify conformed values between data sources

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- Incrementally update PowerCubes
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Allocated Measures

- Discuss measure allocation

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Currency Conversion

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Customize Cube Content

- Create various types of PowerCubes

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- Define a report drill through
- Define a package-based drill through
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- Create a time-based partitioned cube
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- Understand multi-file PowerCubes

Optimize PowerCubes

- Examine cube groups

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- Describe the benefits of alternate hierarchies

- Apply and use currency conversion techniques

Alternate Hierarchies within a Dimension

- Discuss primary and alternate hierarchies

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- Set measure properties

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Examine IBM Cognos Security

- Examine the security environment

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Partition PowerCubes

- Identify the pros and cons

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Applying Security

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- Compare rollup options

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Blank Model Plans (Optional)

Identify Common Data Structures (Optional)

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Maintain Models and PowerCubes

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Further Information:

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