



# 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
- Review Transformer capabilities and its role in IBM Cognos 8 BI
- Discuss Transformer components
- Define categories and members
- Match business requirements to the model
- Discuss an approach for creating a model plan
- Create data source files and define properties
- Preview source data and SQL
- Add IBM Cognos data sources to the model
- Discuss data filtering
- Confirm the data source origin
- Generate categories to populate the modelModify the model using the dimension
- diagram Verify the model and create a PowerCube
- Publish as a data source and package
- Define members and member unique names
- Address changes that Impact a MUN
- Discuss when category codes can change
- Examine standard and nonstandard time dimensions
- Limit the range of valid dates
- Set the current period
- Create relative time categories
- Customize relative time categories
- 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
- Describe regular and calculated measures
- Set measure properties
- Compare rollup options
- Create a calculated measure
- Create calculations before or after rollups
- Create a category count
- Allocate measures as a constant and by another measure
- Check measure distribution
- Describe the benefits of alternate hierarchies
- Create an alternate drill-down path
- Define convergence levels and identify uniqueness issues
- Add a new source level to an existing dimension
- Create a manual level in a dimension
- Create orphan categories
- Modify a dimension using a subdimension
- Create a special category

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Create a scenario dimension

### Use Multiple Data Sources

- Discuss the use of multiple data sources
- Describe IBM Cognos BI components
- Explain how to extend IBM Cognos BI
- Review Transformer capabilities and its role in IBM Cognos 8 BI
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- Add a new source level to an existing

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## Examine IBM Cognos Security

- Examine the security environment
- Describe IBM Cognos BI components
- Explain how to extend IBM Cognos BI
- Review Transformer capabilities and its role in IBM Cognos 8 BI

Discuss an approach for creating a model

- Discuss Transformer components
- Define categories and members
   Match business requirements to the model

Create data source files and define

Add IBM Cognos data sources to the

Generate categories to populate the model

Verify the model and create a PowerCube

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Modify the model using the dimension

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Modify a dimension using a subdimension

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another measure

uniqueness issues

Create orphan categories

Create a special category

hierarchies

dimension

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Create a calculated measure

Preview source data and SQL

Confirm the data source origin

plan

properties

Discuss data filtering

model

diagram

names

dimensions

Uniqueness

sources

- Use calculated columns and categories
- Omit dimensions and exclude measures
- Create and apply dimension views
- Identify the IBM Cognos BI security model
- Define authentication and authorization
- Identify security policies
- Create custom views
- Assign security to custom views
- Assign custom views to PowerCubes
- Combine custom views with dimension views
- Examine a union of custom views
- Understand data source, model, cube updates
- Synchronize the model and data source
- Incrementally update PowerCubes
- Copy and activate a newer version of the PowerCube without affecting users
- Discuss using drill through in IBM Cognos BI
- Define a report drill through
- Define a package-based drill through
- Identify drill-through values
- Discuss modeling recommendations
- Plan for disk space
- Optimize PowerCube inputs and outputs
- Determine factors that affect PowerCube build time and user response time
- Develop a partitioning strategy
- Create a time-based partitioned cube
- Automatic vs. manual partitioning
- Understand multi-file PowerCubes

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- dimension
- Create a manual level in a dimension

Create a scenario dimension

Identify security policies

Create custom views

views

updates

BI

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Assign security to custom views

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PowerCube without affecting users

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Explain how to extend IBM Cognos BI

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role in IBM Cognos 8 BI

plan

properties

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Define a report drill through

Identify drill-through values

Plan for disk space

Assign custom views to PowerCubes

Combine custom views with dimension

Understand data source, model, cube

Synchronize the model and data source

Copy and activate a newer version of the

Discuss using drill through in IBM Cognos

- Create orphan categories
- Modify a dimension using a subdimension
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PowerCube

- Confirm the data source origin
- Generate categories to populate the model
- Modify the model using the dimension diagram

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Verify the model and create a

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- Transformer Fundamentals

- Discuss the basics of OLAP analysis
- Describe IBM Cognos BI components
- Explain how to extend IBM Cognos BI
- Review Transformer capabilities and its role

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Customize relative time categories

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Plan the data sources

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PowerCube without affecting users

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Create a time-based partitioned cube

Describe IBM Cognos BI components

Explain how to extend IBM Cognos BI

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Automatic vs. manual partitioning
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Assign custom views to PowerCubes

Combine custom views with dimension

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- Automatic vs. manual partitioning
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Examine a union of custom views

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BI

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- Understand data source, model, cube updates
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- Plan for disk space
- Optimize PowerCube inputs and outputs

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- Understand multi-file PowerCubes
- Describe IBM Cognos BI components
- Explain how to extend IBM Cognos BI

Discuss Transformer components

Create data source files and define

Add IBM Cognos data sources to the

Generate categories to populate the model

Verify the model and create a PowerCube

Modify the model using the dimension

Publish as a data source and package

Define members and member unique

Address changes that Impact a MUN

Limit the range of valid dates

Create relative time categories

Customize relative time categories

Identify and resolve conflicts between data

Describe regular and calculated measures

Create calculations before or after rollups

Allocate measures as a constant and by

Validate a multiple data source model

Set the current period

Plan the data sources

Define data source types

Discuss a unique move

Set measure properties

Compare rollup options

Create a category count

Check measure distribution

Describe the benefits of alternate

Create an alternate drill-down path

Define convergence levels and identify

Add a new source level to an existing

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another measure

uniqueness issues

hierarchies

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Create a calculated measure

Discuss when category codes can change

Examine standard and nonstandard time

Preview source data and SQL

Confirm the data source origin

Discuss data filtering

Define categories and members

plan

properties

model

diagram

names

dimensions

Uniqueness

sources

Review Transformer capabilities and its role in IBM Cognos 8 BI

Match business requirements to the model

Discuss an approach for creating a model

- Determine factors that affect PowerCube build time and user response time
- Develop a partitioning strategy
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# Describe IBM Cognos BI components

- Explain how to extend IBM Cognos BI
- Review Transformer capabilities and its role in IBM Cognos 8 BI
- Discuss Transformer components
- Define categories and members
- Match business requirements to the model
- Discuss an approach for creating a model plan
- Create data source files and define properties
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- Plan the data sources
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#### dimension

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Blank Model Plans (Optional)

Identify Common Data Structures (Optional)

- Add a new source level to an existing dimension
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### Customize Cube Content

Create various types of PowerCubes

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#### model

- Modify the model using the dimension diagram
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- Discuss when category codes can change
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## **Further Information:**

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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