

**Cognos 10.2 Online Training**

**Duration: 25 hours**

**Introduction to Data Ware House**

**Introduction to the Reporting Application**

**Describe IBM Cognos BI components**

**IBM Cognos Report Studio: Author Professional Reports Fundamentals**

- Examine Report Studio and its interface
- Explore different report types
- Create a simple, sorted, and formatted report
- Explore how data items are added to queries

**Create List Reports**

- Format, group, and sort list reports
- Describe options for aggregating data
- Create a multi-fact query
- Create a report with repeated data

**Focus Reports Using Filters**

- Create filters to narrow the focus of reports
- Examine detail and summary filters
- Determine when to apply filters on aggregate data

**Create Crosstab Reports**

- Format and sort crosstab reports
- Convert a list to a crosstab
- Create complex crosstabs using drag and drop functionality
- Create crosstabs using unrelated data items

**Present Data Graphically**

- Create charts containing peer and nested items
- Add context to charts
- Create and reuse custom chart palettes
- Present key data in a single dashboard report

**Focus Reports Using Prompts**

- Identify various prompt types

- Use parameters and prompts to focus data
- Search for prompt items
- Customize prompts to facilitate users' choices
- Navigate between pages
- Display users' prompt selections in the report

### **Extend Reports Using Calculations**

- Create calculations based on data in the data source
- Add run-time information to the reports
- Create expressions using functions

### **Use Additional Report Building Techniques**

- Reuse objects within the same report
- Share layout components among separate reports
- Discuss report templates
- Add pages to a report
- Choose options to handle reports with no available data

### **Customize Reports with Conditional Formatting**

- Create multi-lingual reports
- Highlight exceptional data
- Show and hide data
- conditionally render objects in reports

### **Drill-Through From One Report to Another**

- Let users navigate from a specific report to a target report
- Pass parameter values to filter the data in drill-through targets

### **Drill-through Definitions**

- Parameter-driven drill through
- Steps to enable drill-through access for a package
- Drill through Assistant

### **Enhance Report Layout**

- Force page breaks in reports
- Modify existing report structures
- Apply horizontal formatting
- Specify print options for PDF reports
- Combine data containers displaying data from different queries

- Format data and report objects

## **IBM Cognos Report Studio: Author Professional Reports Advanced**

### **Create Query Models**

- Build query models and then connect them to the report layout
- Add filters and prompts to a report using the query model
- Edit an SQL statement to author custom queries

### **Create Query Reports Based on Relationships**

- Create reports by merging query results
- Create reports by joining queries
- Combine data containers based on relationships from different queries
- Create query containers containing a single data value

### **Distribute Reports through Bursting**

- Distribute reports using bursting
- create burst keys
- Identify report recipients and data items using burst tables
- Distribute reports using email and IBM Cognos Connection

### **Design Effective Prompts**

- Control report displays using prompts
- Specify conditional formatting values using prompts
- Create a report that formats based on prompts selection
- Create a sorted and filtered report based on prompt selection

### **Enhance User Interaction with HTML**

- Create tooltips that clarify report data
- Create a popup window that contains prompts
- Send emails using links in a report

### **Create Additional Advanced Reports**

- Create a report that displays summarized data before detailed data
  - Highlight alternate rows in a list report
- Create a report using an external data file
- Use single data items to summarize report information

### **Examine the Report Specification**

- Examine the report specification structure

- Save and edit reports locally
- Discuss considerations for modifying a report specification

## **IBM Cognos Report Studio: Author Active Reports**

### **Introduction to IBM Cognos Active Reports**

- Discuss the value of active reports
- Examine an active report and its controls
- Convert an existing report to an active report
- Debug and save an active report
- Explore interactive properties

### **Use Filter and Select in Active Reports**

- Distinguish between filter and select
- Examine decks and cards
- Explore properties to use in active reports
- Examine master-detail relationships and decks

### **Use Advanced Features with Active Reports**

- Drill through on an active report
- Drill up an down on an active report
- Create cascading prompts in an active report

### **Query studio:**

- Types of reports
- Query studio templates
- User interface
- Operation on list report
- Data formatting
- Expand and collapse group
- Custom groups
- Filters and calculations
- Conditional formatting

### **Analysis studio:**

- Introduction to analysis studio
- Types of analysis
- Rows columns and context

- Suppress zeros and nulls
- Filters and calculations
- Top and bottom rows
- Sorting
- Drill up and drill down
- Convert to chart
- Replacing columns and rows
- Open in report studio

### **Event studio:**

- Benefits of event studio
- Process flow
- Specify event condition
- Tasks
- Task execution rules
- Agents
- Scheduling an agent

### **Framework Manager**

#### **IBM Cognos Framework Manager: Design Metadata Models**

##### **Create a Baseline Project**

- Examine the IBM Cognos BI and Framework Manager Workflow processes
- Define a project and its structure
- Describe the Framework Manager environment
- Create a baseline project
- Enhance the model with additional metadata

##### **Prepare Reusable Metadata**

- Verify relationships and query item properties
- Ensure efficient filters by configuring prompt properties

##### **Calculations and Filters**

- Use calculations to create commonly-needed query items for authors
- Use static filters to reduce the data returned
- Use macros and parameters in calculations and filters to dynamically control the data Returned

##### **Specify Determinants**

- Use determinants to specify multiple levels of granularity and prevent double-counting

### **Create the Presentation View**

- Identify the dimensions associated with a fact table
- Identify conformed vs. non-conformed dimensions
- Create star schema groupings to provide authors with logical groupings of query subjects

### **Work with Different Query Subject Types**

- Identify key differences and recommendations for using data source, model, and stored

### **Procedure query subjects**

- Identify the effects on generated SQL when modifying query subjects, SQL settings and Relationships

### **Set Security in Framework Manager**

- Examine the IBM Cognos BI security environment
- Restrict access to packages
- Create and apply security filters
- Restrict access to objects in the model

### **Create Analysis Objects**

- Apply dimensional information to relational Metadata to enable OLAP-style queries

- Sort members for presentation and predictability

### **Advanced Generated SQL Concepts and Complex Queries**

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

### **Use Advanced Parameterization Techniques in Framework Manger**

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

### **Model Maintenance and Extensibility**

- Perform basic maintenance and management on a model
- Remap metadata to another source
- Import and link a second data source
- Run scripts to automate or update a model
- View lineage
- Create a model report

### **Optimize and Tune Framework Manager Models**

- Identify and implement techniques to optimize and tune your Framework Manager models

#### Work in a Multi-Modeler Environment

- Implement repository control
- Segment and link a project
- Branch a project and merge results

### **Manage OLAP Data Sources**

- Connect to an OLAP data source (cube) in a Framework Manager project
- Publish an OLAP model
- Publish a model with multiple OLAP data sources
- Publish a model with an OLAP data source and a relational data source

### **Manage Framework Manager Packages**

- Specify package languages and function sets
- Control model versioning
- Nest packages

## **IBM Cognos BI Administration**

- Describe IBM Cognos architecture at a high level
- Define IBM Cognos groups and roles
- Explain how to extend IBM Cognos BI

### **Introduction to IBM Cognos BI Administration**

- Describe the role of the Administrator in relation to the IBM Cognos BI administration workflow process.
- Describe the role of IBM Cognos Administration and IBM Cognos Configuration user interface components

### **Identify IBM Cognos BI Architecture**

- Identify features of the IBM Cognos BI architecture
- Identify an example of Cognos BI request processing
- Performance planning and installation options and configurations
- Perform IBM Cognos BI on a single machine

### **Secure the IBM Cognos BI Environment**

- Identify the IBM Cognos BI security model
- Define authentication and authorization in IBM Cognos BI.
- Identify security policies
- Secure administrative capabilities (access to functionality)
- Specify security settings after installation.
- Implement security in IBM Cognos Framework Manager and IBM Cognos Transformer

### **Administer the IBM Cognos BI Server Environment**

- Overview of administrative tasks that can be performed in IBM Cognos Administration
- Monitor system metrics
- Manage dispatchers and services
- Tune server performance
- Identify issues while troubleshooting the server environment
- Formulate the IBM Cognos BI backup strategy

### **Manage Run Activities**

- Manage current, past, and upcoming run activities
- Manage schedules

### **Manage Content in IBM Cognos Administration**

- Add and manage a data source
- Distribute data and create a distribution list and contacts
- Deploy IBM Cognos BI content
- Maintain the IBM Cognos BI content store
- Customize the appearance of IBM Cognos BI

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