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Essentials for IBM Cognos Analytics (v11.0)
Information

Length: 5.0 Days
Ref: B6070G-X
Delivery method: Classroom
Price: EUR

Overview

This accelerated offering is intended for core project team members wanting to acquire a broad understanding of IBM Cognos Analytic platform implementation. During the ILT segments, participants will perform hands-on demonstrations and exercises that cover three essential topic areas: modeling, report authoring, and administration of IBM Cognos Analytics. During the WBT portion of the course, students will be required to complete 16.5 hours of eLearning (6 WBTs and 1 recording).

eLearning:

- B5130G - IBM Cognos for Microsoft Office: Integrate with Microsoft Office (v10.1/10.2)
- B5231G - IBM Cognos BI Event Studio: Create and Manage Agents (v8.4/10.1)
- B5169G - IBM Cognos Transformer: Create PowerCubes (v10.1)
- B6088G - IBM Cognos Analytics for Consumers (v11.0)
- B6089G - IBM Cognos Analytics: Create Dashboards (v11.0)
- B6090G - IBM Cognos Analytics: Create Data Modules (v11.0)
- B6091G - IBM Cognos Analytics: Departmental Administration (v11.0)

Public

Core Project Team members

- Project Managers
- Technical Analysts
- Developers

Prerequisites

- Knowledge of common industry-standard data structures and design.
- Experience with SQL
- Experience gathering requirements and analyzing data.
- Knowledge of Web application server architectures
- Security systems administration
- Knowledge of your business requirements

- Experience using the Windows operating system
- Experience using a web browser

Objective

Please refer to course overview.

Topics

1: Introduction to IBM Cognos Analytics

- Describe IBM Cognos Analytics and its position within an analytics solution
- Describe IBM Cognos Analytics components
- Describe IBM Cognos Analytics at a high level
- Explain how to extend IBM Cognos Analytics

2: Identifying common data structures

- Define the role of a metadata model in Cognos Analytics
- Distinguish the characteristics of common data structures
- Understand the relative merits of each model type
- Examine relationships and cardinality
- Identify different data traps
- Identify data access strategies

3: Defining requirements

- Examine key modeling recommendations
- Define reporting requirements
- Explore data sources to identify data access strategies
- Identify the advantages of modeling metadata as a star schema
- Model in layers

4: Creating a baseline project

- Follow the IBM Cognos 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

5: Preparing reusable metadata

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

6: Modeling for predictable results: Identifying reporting Issues

- Describe multi-fact queries and when full outer joins are appropriate
- Describe how IBM Cognos uses cardinality
- Identify reporting traps
- Use tools to analyze the model

7: Modeling for predictable results: Virtual star schemas

- Understand the benefits of using model query subjects
- Use aliases to avoid ambiguous joins
- Merge query subjects to create as view behavior
- Resolve a recursive relationship
- Create a complex relationship expression

8: Modeling for predictable results: consolidate metadata

- Create virtual dimensions to resolve fact-to-fact joins
- Create a consolidated modeling layer for presentation purposes
- Consolidate snowflake dimensions with model query subjects
- Simplify facts by hiding unnecessary codes

9: Creating 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

10: Implementing a time dimension

- Make time-based queries simple to author by implementing a time dimension
- Resolve confusion caused by multiple relationships between a time dimension and another table

11: Specifying determinants

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

12: Creating 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

13: Creating Analysis objects

- Apply dimensional information to relational metadata to enable OLAP-style queries
- Sort members for presentation and predictability
- Define members and member unique names
- Identify changes that impact a MUN

14: Introduction to IBM Cognos Analytics - Reporting

- Examine IBM Cognos Analytics - Reporting and its interface
- Explore different report types
- Create reports in preview or design mode
- Create a simple, sorted, and formatted report
- Examine dimensionally modelled and dimensional data sources
- Explore how data items are added queries
- Examine personal data sources and data modules

15: Creating list reports

- Group, format, and sort list reports
- Describe options for aggregating data

- Create a multi-fact query
- Create a report with repeated data

16: Focusing reports using filters

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

17: Creating crosstab reports

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

18: Present data graphically

- Create charts containing peer and nested columns
- Present data using different chart type options
- Add context to charts
- Create and reuse custom chart palettes
- Introduce visualization
- Present key data in a single dashboard report

19: Focusing Reports Using Prompts

- Identify various prompt types
- Use parameters and prompts to focus data
- Search for prompt types
- Navigate between pages

20: Extend reports using calculations

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

21: Customizing reports with conditional formatting

- Create multi-lingual reports
- Highlight exceptional data
- Show and hide data
- Conditionally render objects in reports
- Conditionally format one crosstab measure based on another

22 Drill-through definitions

- Discuss parameter-driven drill through
- Discuss dynamic drill through
- Set up package-based drill-through definitions
- Set scope
- Use the Drill Through Assistant

23 Introduction to IBM Cognos BI Administration

- IBM Cognos Analytics enterprise components

- Role of the Administrator in relation to the IBM Cognos Analytics administration workflow process
- Role of IBM Cognos Administration and IBM Cognos Configuration

24 Identifying IBM Cognos architecture

- The features of the IBM Cognos Analytics architecture
- The three architectural tiers
- IBM Cognos Analytics servlets and services
- The default servlet container and alternatives to its use
- An example of IBM Cognos Analytics request processing
- Installation options
- Load balancing mechanisms
- Configuration options
- The IBM Cognos Application Firewall

25: Securing the IBM Cognos Analytics environment

- Identify the IBM Cognos Analytics security model
- Define authentication in IBM Cognos Analytics
- Define authorization in IBM Cognos Analytics
- Identify security policies
- Secure the IBM Cognos Analytics environment

26: Managing run activities

- Manage current, upcoming and past activities
- Manage schedules
- Enable and disable schedules
- Set queue priority for schedules
- Suspend a schedule until a later time

27: Managing content in IBM Cognos Administration

- Add a data source
- Distribute data and create a distribution list
- Add visualizations to the Library
- Plan and perform a deployment
- Identify how to maintain the IBM Cognos Analytics content store
- Configure saving content outside of the content store
- Customize the appearance of IBM Cognos Analytics using styles
- Use portlets to display custom Web content