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Cognos Syllabus

Cognos Overview

- Cognos 8 and 10 Overview
- Cognos 8 and 10 Architecture Overview
- Web based User Interface
- Windows Based user interface
- Cognos Gateways and Servers
- IBM Cognos 8 and 10 components
- Capabilities of Cognos BI

Cognos Connection Overview

- Cognos Connection details
- Creating Models and Packages
- Use published reports
- Specify run and view report options
- View the run history of a report
- Specify properties of an entry
- Organize content
- Schedule single and multiple reports
- Customize report outputs by using report views
- Demo 1: introduction to IBM Cognos Connection

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EXAMINE QUERY STUDIO

- List the packages types available for reporting
- Understand report types
- Open ad hoc reports
- Add data to ad hoc reports
- Save ad hoc reports
- View data by using charts
- Create ,sort and group adhoc report
- Add calculations to adhoc reports
- Display data graphically with charts
- Filter data in adhoc report
- Filter a data using prompt
- Demo 1: explore IBM Cognos query studio

EXAMINE REPORT STUDIO

- Examine the interface
- Explore report templates
- Explore report types
- Demo 2: explore IBM Cognos 8 report studio
- Examine list reports
 - Format list columns

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- Group data
- Data aggregation
- Focus reports using filters
 - Detail filters
 - Summary filters
- Crosstab reports
 - Add measures to crosstab reports
 - Create complex crosstab reports
 - Format Crosstab Reports
 - Discontinuous Crosstab
 - Handle Reports With No Data
- Present DATA GRAPHICALLY
 - Different CHART REPORTS
 - Customize CHARTS REPORT
 - Format CHART REPORT
- Focus Reports Using Prompts
 - Examine Parameters And Prompts
 - Identify Different Prompt Types
 - Create A Prompt Page
 - Create A Cascading Prompt
- Extend Reports Using Calculations.

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- Add Run-Time Information
- Add Calculations To A Report
- Display Prompt Selection In Report Titles
- Page Break
- Conditional Formatting
 - Change Displays Based On Conditions
 - Apply Formatting To Object Based On Condition Value
 - Highlight Exceptional Data
 - Conditionally Render Objects In Reports
- Drill-Through From One Report To Another
- Create A Master Detail Reports.
- Create A Simple Dashboard

EXAMINE ANALYSIS STUDIO

- Define Dimensions, Levels, And Items
- Examine Relative Time Items
- Define Measures
- Define Sets
- Selection Based Sets

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- Demo 2: Explore IBM Cognos
- Demo 3: Explore IBM Cognos Analysis Studio

Data Modeling Concepts

- Framework Manager
- Creating Project
- Adding data Source Connection
- Physical Layer Design
- Business Layer Design
- Presentation layer Design

Multi-dimensional Design Overview

- Cube Design
- Transformer Overview
- Cube Design using Transformer
- Rollup, Time Dimension
- Special Categories

Cognos Syllabus

EXAMINE EVENT STUDIO

- Improve Business Performance
- Identify The Event Studio Process Flow
- Add A Task
- Specify The Task Execution Rules
- Schedule An Agent
- Demo 1: Explore Event Studio

OVERVIEW OF COGNOS ADMINISTRATION.

Note: There will be practical sessions for almost every topic mentioned above in the syllabus.

Data warehousing Syllabus

- Evolution of Datawarehousing - History
- The need of Datawarehousing
- Why Datawarehousing
- What is Datawarehousing – The Definition
 1. Subject -Oriented
 2. Integrated

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- 3. Non – Volatile
- 4. Time Varying
- Datawarehousing Architecture
 - 1. Data Source Layer
 - 2. Data Extraction Layer
 - 3. Staging Layer
 - 4. ETL Layer
 - 5. Data Storage Layer
 - 6. Data Logic Layer
 - 7. Data Presentation Layer
 - 8. Metadata Layer
 - 9. System Operation Layer
- Dimension table
- Fact table
 - 1. Additive Facts
 - 2. Semi Additive Facts
 - 3. Non – Additive Fact
 - 4. Cumulative
 - 5. Snapshot
- Attribute

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- Hierarchy
- Types of Schema
 1. Star Schema
 2. Snow Flake Schema
 3. Fact Constellation Schema
- Slow Changing Dimension
 1. SCD1 – Advantages/ Disadvantages
 2. SCD2 – Advantages/ Disadvantages
 3. SCD3 – Advantages/ Disadvantages
- OLAP and OLTP
 - Difference between OLAP and OLTP
 - Types Of OLAP
 1. Multi-Dimensional (MOLAP)
 2. Relational(ROLAP)
 3. Hybrid(HOLAP)