

OBIEE Syllabus

BUILD METADATA REPOSITORY (RPD) COURSE CONTENT

❖ **Admin Tools and RPD Modelling**

- Creating Repository Using Administrative Tool
- Repository Basics
- Building Physical Layer of Repository
- Building Physical Model and BMM Layer of a Repository
- Building the Presentation Layer of a Repository
- Testing & Validation of a Repository
- Calculations & Measures
- Creating Dimension Hierarchies
- Organizing Presentation Layer
- Working with Initialization Blocks and Variables
- Adding Multiple Sources
- Executing Direct Database Requests
- Working with Aggregates
- Creating Time Series Measures

❖ **Dash Board and Analysis**

- Creating Interactive Dashboards using Answers
- Creating query and chart
- Working with Filters
- Working with Pivot Table
- Building Views and Charts in Requests
- Creating Interactive Dashboard

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- Configuring Interactive Dashboards and prompts
- Configuring Guided Navigation Links

❖ Scheduling And Delivering

- Sending Alerts Using Delivers
- Configure Scheduler Schema
- Scheduler Configuration
- Creating Sample Request and Adding to Interactive Dashboard
- Creating and Delivering a Simple Agent(iBot)
- Creating and Delivering a Conditional Agent (iBot)

❖ Advanced Concepts

- Simple installation ,Enterprise Installation, Software only Installation
- Deployment
- Oracle BI for MS-Office

BUILD RPD

❖ Repository Basics

- Exploring Oracle BI architecture components
- Exploring a repository's structure, features, and functions
- Using the Oracle BI Administration Tool
- Creating a repository
- Loading a repository into Oracle BI Server memory

❖ Building the Physical Layer of a Repository

- Importing data sources

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- Setting up connection pool properties
- Defining keys and joins
- Examining physical layer object properties
- Creating alias tables
- ❖ **Building the Business Model and Mapping Layer of a Repository**
 - Building a business model
 - Building logical tables, columns, and sources
 - Defining logical joins
 - Building measures
 - Examining business model object properties
- ❖ **Building the Presentation Layer of a Repository**
 - Exploring Presentation layer objects
 - Creating Presentation layer objects
 - Modifying Presentation layer objects
 - Examining Presentation layer object properties
- ❖ **Testing and Validating a Repository**
 - Checking repository consistency
 - Turning on logging
 - Defining a repository in the initialization file
 - Executing analyses to test a repository
 - Inspecting the query log

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❖ Managing Logical Table Sources

- Adding multiple logical table sources to a logical table
- Specifying logical content

❖ Adding Calculations to a Fact

- Creating new calculation measures based on existing logical columns
- Creating new calculation measures based on physical columns
- Creating new calculation measures using the Calculation Wizard
- Creating measures using functions

❖ Working with Logical Dimensions

- Creating logical dimension hierarchies
- Creating level-based measures
- Creating share measures
- Creating dimension-specific aggregation rules
- Creating presentation hierarchies
- Creating parent-child hierarchies
- Using calculated members

❖ Using Aggregates

- Modelling aggregate tables to improve query performance
- Setting the number of elements in a hierarchy
- Testing aggregate navigation
- Using the Aggregate Persistence Wizard

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❖ Using Repository Variables

- Creating session variables
- Creating repository variables
- Creating initialization blocks
- Using the Variable Manager
- Using dynamic repository variables as filters

❖ Modelling

- Using time comparisons in business analysis
- Using Oracle BI time series functions to model time series data
- Using bridge tables to resolve many-to-many relationships between dimension tables and fact tables

❖ Setting an Implicit Fact Column

- Adding fact columns automatically to dimension-only queries
- Ensuring the expected results for dimension-only queries
- Selecting a predetermined fact table source
- Specifying a default join path between dimension tables

• **REPORT AND DASHBOARDS**

❖ Introducing Oracle Business Intelligence Enterprise Edition

- Introduction to Oracle BI
- Architecture overview

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❖ Working with Oracle Business Intelligence Analyses

- Introduction to Oracle BI Analysis Editor
- Oracle BI column types
- Working with analyses in Oracle BI
- Using advanced formatting

❖ Limiting and Grouping Data in Analyses

- Introduction to filters and selections
- Creating, editing, and grouping filters
- Adding prompts to analyses
- Dynamic filtering
- Using saved analyses as filters
- Creating groups
- Creating calculated items
- Creating selection steps

❖ Oracle Business Intelligence Analyses: Advanced Features

- Setting analysis properties
- Combining analysis criteria by using set operations
- Executing direct database analyses
- Editing logical SQL generated by an analysis
- Creating a link to a saved analysis

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❖ Working with Views and Graphs in Analyses

- Introduction to views, graphs, and editors
- Working with views in Compound Layouts
- Creating and editing graphs
- Linking master-detail views
- Performing common view tasks

❖ Visualizing Data: Gauges, Maps, and Mobile

- Working with Gauge views

❖ Showing Results With Pivot Tables

- Creating, arranging, and formatting a pivot table
- Using hierarchical columns
- Sorting in pivot tables
- Setting aggregation and using totals
- Showing an item's relative value
- Building calculations and displaying running sums

❖ Creating Oracle Business Intelligence Dashboards

- Creating and editing dashboards
- Using the Dashboard Builder
- Exploring dashboard object properties and options
- Publishing dashboard pages
- Creating personal customizations and using other page options

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❖ Configuring Oracle Business Intelligence Dashboards

- Exploring types of dashboard content
- Embedding content in dashboards

❖ Creating Dashboard Prompts and Variables

- Understanding variables
- Adding a named dashboard prompt to a dashboard
- Adding a hidden named dashboard prompt to a dashboard
- Creating additional prompt page and setting page preferences
- Adding variable prompts to a dashboard

❖ Using Oracle Business Intelligence Delivers

- Configuring delivery devices and adding delivery profiles
- Adding an Alert Section to a dashboard
- Configuring an Agent
- Using Analysis and KPI conditions to deliver content with Agents
- Subscribing to an Agent

❖ Integrating Analyses with MS Office

- Working with Oracle BI content in Microsoft Office applications
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OBIEE ADVANCED TOPICS (OPTIONAL AND SEPARATE)

❖ Security

- Exploring Oracle BI default security settings
- Creating users and groups

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- Creating application roles
- Setting up object permissions
- Setting row-level security (data filters)
- Setting query limits and timing restrictions

❖ Cache Management

- Restricting tables as non-cacheable
- Using Cache Manager
- Inspecting cache reports
- Purging cache entries
- Modifying cache parameters and options
- Seeding the cache

❖ Administering the Presentation Catalog Security

- Oracle BI and catalog security overview
- Managing security using roles
- Understanding security inheritance
- Setting object permissions
- Setting system privileges
- Archiving catalog items

❖ Working with Oracle Business Intelligence Briefing Books

- Adding content to Briefing Books
- Editing Briefing Books
- Downloading and viewing Briefing Books

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- Adding a list of Briefing Books to a dashboard
- Using Briefing Books with Oracle BI Delivers

❖ Security Features

- Authentication & Authorization
- Object & Data Level Security
- Webcatalog Level Security
- Creating Users, Groups & Webgroups
- Upgrading RPD/WEBCAT from an earlier release
- Cache Management

**Note: Practical's session will be taken extra apart from the above mentioned syllabus
Part of theory will be taken along with sample practical examples.**

Data warehousing Syllabus

- Evolution of Datawarehousing - History
- The need of Datawarehousing
- What is Datawarehousing – The Definition
 1. Subject -Oriented
 2. Integrated
 3. Non – Volatile
 4. Time Varying
- Datawarehousing Architecture
 - Data Source Layer
 - Data Extraction Layer
 - Staging Layer

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- ETL Layer
- Data Storage Layer
- Data Logic Layer
- Data Presentation Layer
- Metadata Layer
- System Operation Layer
- Dimension table
- Fact table
 - Additive Facts
 - Semi Additive Facts
 - Non – Additive Fact
 - Cumulative
 - Snapshot
- Attribute
- 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

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- OLAP and OLTP
 - Difference between OLAP and OLTP
 - Types Of OLAP
 - Multi-Dimensional (MOLAP)
 - Relational(ROLAP)
 - Hybrid(HOLAP)