

## **What is DBMS, RDBMS? Types of RDBMS? SQL Retrieving Data using the SQL SELECT Statement**

Capabilities of the SELECT statement

Arithmetic expressions and NULL values in the SELECT statement  
Column aliases

Use of concatenation operator, literal character strings, alternative quote operator, and the DISTINCT keyword

Use of the DESCRIBE command

### **Restricting and Sorting Data**

Limiting the Rows

Rules of precedence for operators in an expression

### **Using Single-Row Functions to Customize Output**

Describe the differences between single row and multiple row functions

Manipulate strings with character function in the SELECT and WHERE clauses

Manipulate numbers with the ROUND, TRUNC and MOD functions

Perform arithmetic with date data

Manipulate dates with the date functions

### **Using Conversion Functions and Conditional Expressions**

Describe implicit and explicit data type conversion

Use the TO\_CHAR, TO\_NUMBER, and TO\_DATE conversion functions  
Nest multiple functions

Apply the NVL, NULLIF, and COALESCE functions to data

Use conditional IF THEN ELSE logic in a SELECT statement

### **Reporting Aggregated Data Using the Group Functions**

Group Functions

Creating Groups of Data

Restricting Group Results

### **Displaying Data from Multiple Tables Using Joins**

Introduction to

JOINS  
Types of Joins

### **Using Sub queries to Solve Queries**

Introduction to Subqueries

Single Row Subqueries

Multiple Row Subqueries

### **Using the SET Operators**

Set Operators

UNION and UNION ALL

operator  
INTERSECT operator

MINUS operator

Matching the SELECT statements

Using ORDER BY clause in set operations

### **Managing Tables using DML statements**

- Data Manipulation Language
- Database Transactions

### **Introduction to Data Definition Language**

- Data Definition Language

### **Introduction to Data Dictionary Views**

- Introduction to Data Dictionary
  - Describe the Data Dictionary Structure
  - Using the Data Dictionary Views
  - Querying the Data Dictionary Views

### **Creating Sequences, Synonyms, Indexes**

- Overview of sequences
- Overview of synonyms
- Overview of indexes

### **Creating Views**

- Overview of views

### **Retrieving Data by Using Sub queries**

- Retrieving Data by Using a Subquery as Source Working with Multiple-Column subqueries Using Scalar subqueries in SQL
- Correlated Subqueries
  - Working with the WITH clause
  - Analytical Functions

### **DATAWAREHOUSE BASICS**

- What is Datawarehouse?
- What is Business Intelligence?
  - Online Transaction Processing System (OLTP)
  - OLTP Vs Datawarehouse (OLAP)

### **DATA MODELING**

- What is data Model?
  - E-R Modeling
  - Dimensional Modeling
    - Dimension table
    - Fact Table
- SURROGATE KEY
  - SCD Type 1 - SCD Type 2
  - SCD Type 3
    - Types Measures or Facts or Metrics
    - What is Schema?
- STAR Schema
- SNOWFLAKE SCHEMA

## **Oracle Business Intelligence Enterprise Edition 11g Introduction to Business Intelligence**

- What is Business Intelligence
- Where BI tools are Used
- Why the Oracle Business Intelligence Advantages

### **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
  - 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
- Setting up Content Level, Aggregated navigation.

### **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

### **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**

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

### **Using Repository Variables**

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

### **Modeling Time Series Data**

- Using time comparisons in business analysis
- Using Oracle BI time series functions to model time series data

### **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

### **Security**

- Exploring Oracle BI default security settings
- Creating users and groups
- Creating application roles
- Setting up object permissions
- Setting rowlevel 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

### **Enabling Usage Tracking**

- Setting up the sample usage tracking repository
- Tracking and storing Oracle BI Server usage at the detailed query level
  - Using usage tracking statistics to optimize query performance and aggregation strategies
  - Analyzing usage results using Oracle BI Answers and other reporting tools

### **Multuser Development**

- Setting up a multuser development environment
- Developing a repository using multiple developers
- Tracking development project history

### **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

### **Administering the Presentation Catalog**

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

### **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

Creating an Excel Web Query file

### **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

### **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

### **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
- OBIEE Developer Roles and Responsibilities
- Role of ETL Developer?
- Interview Preparation
- Real Time Project

## **Overview of Oracle BI Applications**

- What is BI and why organizations need
- BI Architecture
  - Oracle BI Apps Functional Architecture
  - Oracle BI Apps Technical Architecture
- Analytics supported By BI Apps
- Overview of Components Involved in BI Apps
- ETL Architecture
  - Data Extracting and Loading
  - Process OBIEE Vs OBIA
  - OBIA Security Integration
  - DAC Scheduler

  

- Implementing Use Case – 1
- Implementing Use Case – 2
- Implementing Use Case – 3
- Implementing Use Case – 4
- Implementing Use Case – 5

### **Who can take this course**

Business Intelligence Professionals or ETL Developers, Professionals aspiring to become Business Intelligence Professionals, Project Managers, Database Professionals, Mainframe Professionals, SQL Developers

### **Pre-Requisite**

- Quick understanding of SQL concepts
- Knowledge on Software Testing Life Cycle

### **Key-Takeaways**

- 30 Hours of training with Lab Exercises and proprietary VM
- Lab exercises for each module.
- Well-Experienced and Real Time Trainers
- Best in Class Infrastructure
- Real time case studies and project integrated into the Curriculum
- 24\*7 Support from our team of administrators
- Course Material and Lab guides for students reference
- Placement assistance for those who are looking out for a career in OBIEE

### **Trainer Profile**

- 10+ Years of Industry Experience
- 6+ Years of experience in OBIEE
- Trained more than 300+ students
- Excellent Communication Skills