

DBMS: Oracle SQL

Duration: 40 Hours

Prerequisites

- Computer Fundamentals

Course Contents

1. Writing Basic SQL SELECT Statements

- SQL Overview
- Arithmetic Expressions
- NULL Value
- Column Alias
- Concatenation Operator
- Literals
- Eliminating Duplicate Rows

2. Restricting and Sorting Data

- WHERE clause
- Logical Operators
- SQL Operators
- LIKE Operator
- AND, OR and NOT Operators
- ORDER BY Clause

3. Row Functions

- Character Functions
- Number Functions
- Date Functions
- Conversion Functions
- General Functions

4. Displaying Data from Multiple Tables

- Types of Joins in Oracle
- SQL Joins

5. Aggregating Data Using Group Functions

- Group Functions
- Group By Clause
- HAVING Clause

6. Subqueries

- Single Row subqueries
- Multiple Row Subqueries
- Correlated Subqueries

7. Manipulating Data

- INSERT Statement
- UPDATE Statement
- DELETE Statement
- MERGE Statement
- Transaction Control
- Locks

8. Creating and Managing Tables

- Data Definition Language
- Data Types
- CREATE TABLE Statement
- ALTER TABLE Statement
- Rename an Object
- Comments

9. Including Constraints

- Primary Constraints
- FOREIGN KEY Constraint
- NOT NULL Constraint
- UNIQUE Constraint
- CHECK Constraint
- ALTER statement
- Dropping a constraint
- Disabling Constraints
- Enabling Constraints
- Cascading Constraints
- Viewing Constraints

10. Views

- Creating a View
- Retrieving Data from a View
- Modifying a View
- Destroying a View
- User-View

11. Other Database Objects

- Sequence
- Index
- Synonyms

12. Controlling User Access

- Privileges
- System Privileges
- Object Privileges
- Role

13. Using SET Operators

- UNION Operator
- UNION ALL Operator
- INTERSECT Operator
- MINUS Operator

14. Oracle Datetime Functions

- Oracle 9i Date time Support
- CURRENT_DATE
- CURRENT_TIMESTAMP
- LOCALTIMESTAMP
- DBTIMEZONE and SESSIONTIMEZONE
- EXTRACT
- FROM_TZ
- TO_TIMESTAMP and TO_TIMESTAMP_TZ
- TO_YMINTERVAL & TZ_OFFSET