DBMS: Oracle SQL

Duration: 30 Hours
Prerequisites
- No prerequisites, basic knowledge of DBMS can be advantageous.

Oracle SQL

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