



Dream. Create. Achieve.

FERILION LABS

ORACLE SQL SYLLABUS

1. SQL Fundamentals

- Introduction to Databases: Overview, Types, SQL Language
- Basic SQL Operations: SELECT, INSERT, UPDATE, DELETE
- Data Types in Oracle: VARCHAR2, NUMBER, DATE, BLOB

2. Functions

- Single Row Functions: Character, Number, Date Functions
- Multiple Row Functions: SUM, AVG, MAX, MIN, COUNT

3. Constraints and Data Integrity

- Types of Constraints: NOT NULL, UNIQUE, PRIMARY KEY, FOREIGN KEY, CHECK
- Implementing and Managing Constraints: ALTER TABLE, DROP CONSTRAINT

4. Joins and Sub-Queries

- Understanding and Using Joins: INNER, LEFT, RIGHT, FULL OUTER Joins
- Types of Sub-Queries: Single Row, Multiple Row, Correlated Sub-Queries

5. Hierarchical Queries

- Concepts: CONNECT BY, PRIOR, START WITH
- Implementation: Recursive Queries, Pseudo Columns

6. SET Operators and Views

- Working with SET Operators: UNION, INTERSECT, MINUS
- Creating and Managing Views: CREATE VIEW, WITH CHECK OPTION

7. Indexes and DBA Security

- Index Management: Types of Indexes, Creating and Dropping Indexes
- Security Best Practices: Roles, Privileges, Profiles

8. OLAP Functions

- Introduction to OLAP Functions: ROLLUP, CUBE, GROUPING SETS

9. Managing Data

- Updates and Deletes: Using UPDATE, DELETE Commands
- Working with Partitions: Creating, Modifying, Dropping Partitions



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