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Modules Oracle Database

MODULE 1 — INTRODUCTION TO ORACLE

DATABASE

- Objective: Understand Oracle database fundamentals.
- Topics Covered
- Introduction to Database & RDBMS
- Oracle Database Overview
- Oracle Editions & Versions
- Oracle Architecture (Logical & Physical)
- SQL vs PL/SQL
- Installing Oracle (Overview)

MODULE 2 — ORACLE SQL BASICS

- Objective: Learn basic SQL commands.
- Topics Covered
- SQL Overview
- Data Types
- SQL*Plus & SQL Developer Tools
- SELECT Statement
- WHERE Clause
- ORDER BY & DISTINCT
- Arithmetic & Logical Operators

MODULE 3 — FUNCTIONS IN ORACLE SQL

- **Objective:** Perform data manipulation using functions.
- **Topics Covered**
- **Single Row Functions**
- **Character Functions**
- **Number Functions**
- **Date Functions**
- **Conversion Functions**
- **NULL Functions**
- **Group Functions (SUM, COUNT, AVG)**
- **GROUP BY & HAVING Clauses**

MODULE 4 — DATA DEFINITION LANGUAGE (DDL)

- **Objective:** Create and manage database objects.
- **Topics Covered**
- **CREATE, ALTER, DROP Statements**
- **Constraints (PK, FK, UNIQUE, CHECK, NOT NULL)**
- **Managing Tables**
- **Views**
- **Sequences**
- **Indexes**

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MODULE 5 — DATA MANIPULATION LANGUAGE (DML)

- **Objective: Manage data in tables.**
- **Topics Covered**
- **INSERT**
- **UPDATE**
- **DELETE**
- **MERGE**
- **COMMIT, ROLLBACK, SAVEPOINT**
- **Transaction Control**

MODULE 6 — JOINS & SUBQUERIES

- **Objective: Retrieve data from multiple tables.**
- **Topics Covered**
- **Types of Joins**
- **Inner Join**
- **Outer Join**
- **Self Join**
- **Cross Join**
- **Subqueries (Single & Multiple Row)**
- **Correlated Subqueries**
- **EXISTS, IN, ANY, ALL**
- **Set Operators**

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MODULE 7 — ADVANCED SQL

- **Objective:** Write optimized and complex queries.
- **Topics Covered**
- **Views (Updatable & Read-only)**
- **Inline Views**
- **Synonyms**
- **Indexes & Performance Basics**
- **SQL Optimization (Intro)**
- **Explain Plan (Basics)**

MODULE 8 — INTRODUCTION TO PL/SQL

- **Objective:** Learn procedural programming in Oracle.
- **Topics Covered**
- **PL/SQL Architecture**
- **PL/SQL Block Structure**
- **Variables & Constants**
- **Control Statements (IF, CASE)**
- **Loops (FOR, WHILE)**

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MODULE 9 — PL/SQL ADVANCED CONCEPTS

- **Objective:** Write modular and reusable code.
- **Topics Covered**
- **Cursors (Implicit & Explicit)**
- **Exception Handling**
- **Procedures & Functions**
- **Packages**
- **Triggers (Row & Statement Level)**

MODULE 10 — ORACLE DATABASE OBJECTS & SECURITY

- **Objective:** Manage users and security.
- **Topics Covered**
- **Users & Roles**
- **Privileges (System & Object)**
- **Grant & Revoke**
- **Schema Management**
- **Data Integrity & Security Basics**

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MODULE 11 — ORACLE DBA BASICS

- **Objective:** Understand administration concepts.
- **Database Startup & Shutdown**
- **Tablespaces & Datafiles**
- **Control Files & Redo Logs**
- **Backup & Recovery (Intro)**
- **Oracle Data Pump (Export/Import)**

MODULE 12 — PERFORMANCE TUNING & OPTIMIZATION (INTRO)

- **Objective:** Improve database performance.
- **Topics Covered**
- **Indexing Strategies**
- **Query Performance Issues**
- **Execution Plans**
- **Statistics & Optimizer (Basics)**
- **SQL Tuning Advisor (Intro)**

Modules **Oracle Database**

MODULE 13 — REAL-TIME PROJECT & PRACTICE

- **Objective: Apply Oracle skills practically.**
- **Project Includes**
 - ✓ **Database Design**
 - ✓ **Table Creation**
 - ✓ **SQL Queries**
 - ✓ **PL/SQL Programs**
 - ✓ **Triggers & Procedures**
 - ✓ **Mini Application Database**



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