

Oracle 21c Fundamentals – TOC

Duration - 5 Days

Course Overview:

Covers the basics of Oracle SQL and PL/SQL queries

Audience: Beginners

Tools Covered: Oracle

Day 1 – Installation & Environment Setup

- 1. Overview of Oracle Database 21c**
- 2. System requirements and installation steps**
- 3. Configuring Oracle Listener and Database**
- 4. Introduction to SQL*Plus and SQL Developer**
- 5. Creating sample users and schemas**

Day 2 – SQL Fundamentals I

- 1. Introduction to SQL and relational concepts**
- 2. Basic SELECT statements**
- 3. Filtering data with WHERE clause**
- 4. Using operators (=, BETWEEN, IN, LIKE, IS NULL)**
- 5. Sorting results with ORDER BY**

Day 3 – SQL Fundamentals II

- 1. Joins and relationships between tables**
 - INNER JOIN**
 - LEFT/RIGHT JOIN**
 - FULL OUTER JOIN**
- 2. Aggregate functions (COUNT, SUM, AVG, MIN, MAX)**
- 3. Grouping data with GROUP BY**
- 4. Filtering groups with HAVING**
- 5. Practical reporting queries**

Day 4 – PL/SQL Basics

- 1. Introduction to PL/SQL block structure**
- 2. Declaring variables and constants**
- 3. Control structures (IF, CASE, LOOP, WHILE)**
- 4. Writing simple procedures and functions**
- 5. Using DBMS_OUTPUT for debugging**

Day 5 – PL/SQL Advanced Fundamentals

- 1. Cursors (implicit and explicit)**
- 2. Exception handling in PL/SQL**
- 3. Creating triggers (AFTER INSERT/UPDATE)**
- 4. Modular programming with packages**
- 5. Best practices for PL/SQL development**