

Oracle Database 19c: SQL Workshop

Duration:

5 days

The Oracle Database 19c: SQL Workshop course offers students an introduction to Oracle Database 19c database technology. In this class students learn the concepts of relational databases and the powerful SQL programming language. This course provides the essential SQL skills that allow developers to write queries against single and multiple tables, manipulate data in tables, and create database objects.

Course Objectives

Upon completion of this course, the student should be able to:

- Identify the major components of an Oracle Database
- Retrieve row and column data from tables with the SELECT statements
- Create reports of sorted and restricted data
- Employee SQL functions

Benefits To You

Ensure fast, reliable, secure and easy to manage performance. Optimize database workloads, lower IT costs and deliver a higher quality of service by enabling consolidation onto database clouds.

Audience

- Administrator
- Analyst
- Developer
- Systems Administrator

Course Topics

1. Introduction

- Entity Relationship Model
- Practice 1-1: Introduction

2. Retrieving Data Using the SQL SELECT Statement

- Practice 2-1: Retrieving Data Using the SQL SELECT Statement

3. Restricting and Sorting Data

- Practice 3-1: Restricting and Sorting Data

4. Using Single-Row Functions to Customize Output

- Number Functions
- Practice 4-1: Using Single-Row Functions to Customize Output

5. Using Conversion Functions and Conditional Expressions

- General Functions
- Practice 5-1: Using Conversion Functions and Conditional Expressions

6. Reporting Aggregated Data Using the Group Functions

- Practice 6-1: Reporting Aggregated Data by Using Group Functions

7. Displaying Data from Multiple Tables Using Joins

- Practice 7-1: Displaying Data from Multiple Tables by Using Joins

8. Using Subqueries to Solve Queries

- Practice 8-1: Using Subqueries to Solve Queries

9. Using Set Operators

- Practice 9-1: Using Set Operators

10. Managing Tables Using DML Statements in Oracle

- State of Data
- Practice 10-1: Managing Tables by Using DML Statements

11. Introduction to Data Definition Language in Oracle

- FOREIGN KEY Constraint
- Practice 11-1: Introduction to Data Definition Language

12. Introduction to Data Dictionary Views

- Before you Begin Practice 12: Using SQL Developer
- Practice 12-1: Introduction to Data Dictionary Views

13. Creating Sequences, Synonyms, and Indexes

- Sequence Information
- Practice 13-1: Creating Sequences, Synonyms, and Indexes

14. Creating Views

- Practice 14-1: Creating Views

15. Managing Schema Objects

- DROP TABLE
- Practice 15-1: Managing Schema Objects

16. Retrieving Data by Using Subqueries

- Practice 16-1: Retrieving Data by Using Subqueries

17. Manipulating Data by Using Subqueries

- Practice 17-1: Manipulating Data by Using Subqueries

18. Controlling User Access

- Practice 18-1: Controlling User Access

19. Manipulating Data Using Advanced Queries

- MERGE Statement
- Practice 19-1: Manipulating Data

20. Managing Data in Different Time Zones

- Practice 20-1: Managing Data in Different Time Zones