Oracle Database 19c: SQL Workshop

Duration: 5 Days

Course Description:

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:

- Understand the basics of relational databases.
- Create sorted and limited data reports.
- Execute data manipulation instructions (DML).
- Control database access for specific objects.
- Manage schema objects.
- Manage objects with data dictionary views.
- Retrieve rows and columns of data from tables.
- Control object and system-level rights.
- Create indexes and constraints; modify existing schema objects.
- Create and query external tables.

Course Outlines:

Introduction
- Introduction, New Year'
- Entity Relationship Model
- Practice 1-1: Introduction

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

Restricting and Sorting Data
- Restricting and Sorting Data
- Practice 3-1: Restricting and Sorting Data

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

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

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

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

Using Subqueries to Solve Queries
- Using Subqueries to Solve Queries
- Practice 8-1: Using Subqueries to Solve Queries

Using Set Operators
- Using Set Operators
- Practice 9-1: Using Set Operators

Managing Tables Using DML Statements in Oracle
- Managing Tables Using DML Statements in Oracle
- State of Data
- Practice 10-1: Managing Tables by Using DML Statements
- Practice 10-1: Managing Tables by Using DML Statements....Cntd

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

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

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

Creating Views
- Creating Views
- Practice 14-1: Creating Views

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

Retrieving Data by Using Subqueries
- Retrieving Data by Using Subqueries
- Practice 16-1: Retrieving Data by Using Subqueries

Manipulating Data by Using Subqueries
- Manipulating Data by Using Subqueries
- Practice 17-1: Manipulating Data by Using Subqueries

Controlling User Access
- Controlling User Access
- Practice 18-1: Controlling User Access

Manipulating Data Using Advanced Queries
- Manipulating Data Using Advanced Queries
- MERGE Statement
- Practice 19-1: Manipulating Data
- Practice 19-1: Manipulating Data... Cntd

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

Conclusion
- Conclusion
- Q&A Sessions

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