

Oracle Database 12c R2: SQL Workshop II Ed 2

Duration: 2 Days

What you will learn

The Oracle Database: SQL Workshop II Ed 2 course will help students enhance their skills as Application developers by learning to manage the database objects, data dictionary views and multicolumn subqueries. Students also learn to write more efficient queries using the functions supporting the timezone and regular expressions.

Learn To:

Grant and revoke privileges and roles.

Manage schema objects and data dictionary views.

Write efficient and complex subqueries.

Use the in-built functions supporting the usage of regular expressions and time zone.

Benefits To You

This course is designed for application developers with basic SQL language skills. Students learn how to use the advanced features of SQL in order to query and manipulate data within the database. Students will also learn how to control privileges at the object and system level. Advanced querying and reporting techniques are explained. Students will learn to use the regular expression support in SQL.

Students benefit by using Oracle SQL Developer as the main environment tool for writing SQL. SQL*Plus is introduced as an optional tool. Demonstrations and hands-on practice reinforce the concepts.

Related Training

Required Prerequisites

Basic Knowledge of SQL

Familiarity with SQL Developer, SQL*Plus

Oracle Database 12c R2: SQL Workshop

Course Objectives

Add new users with different levels of access privileges

Manage schema objects

Run data definition language (DDL) statements to create and manage schema objects

Manage objects with data dictionary views

Control database access to specific objects

Manipulate large data sets in the Oracle database by using subqueries

Manage data in different time zones

Write multiple-column subqueries

Use scalar and correlated subqueries

Course Topics

Introduction

Course Objectives, Course Agenda and Appendixes Used in this Course

Provide an insight of the development environments

Tables used in the Course

Review of the SQL Concepts

Introduction to Data Dictionary Views

Introduction to Data Dictionary

Describe the Data Dictionary Structure

Using the Data Dictionary views

Querying the Data Dictionary Views

Creating Sequences, Synonyms, Indexes

Overview of sequences

Overview of synonyms

Overview of indexes

Creating Views

Overview of views

Managing Schema Objects

Managing constraints

Creating and using temporary tables

Creating and using external tables

Retrieving Data by Using Subqueries

Retrieving Data by Using a Subquery as Source

Working with Multiple-Column subqueries

Using Scalar subqueries in SQL

Correlated Subqueries

Working with the WITH clause

Manipulating Data by Using Subqueries

Using Subqueries to Manipulate Data

Inserting by Using a Subquery as a Target

Using the WITH CHECK OPTION Keyword on DML Statements

Using Correlated Subqueries to Update and Delete rows

Controlling User Access

System privileges

Creating a role

Object privileges

Revoking object privileges

Manipulating Data Using Advanced Queries

Overview of the Explicit Default Feature

Using multitable INSERTs

Using the MERGE statement

Performing flashback operations

Tracking Changes in Data

Managing Data in Different Time Zones

Working with CURRENT_DATE, CURRENT_TIMESTAMP, and LOCALTIMESTAMP

Working with INTERVAL data types

Using Datetime functions in queries