Oracle Database: 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.

Audience

Application Developers
Database Administrators
Forms Developer
Functional Implementer
PL/SQL Developer
System Analysts

Related Training

Required Prerequisites

Basic Knowledge of SQL

Familiarity with SQL Developer, SQL*Plus

Oracle Database: SQL Workshop I Ed 2

Control database access to specific objects

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

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

Use the regular expression support in SQL

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