

## Oracle Database: SQL Workshop II

**Duration:** 2 Days

### What you will learn

This Oracle Database: SQL Workshop II helps you enhance your skills as an Application developer by learning how to manage the database objects, data dictionary views and multicolumn subqueries. Expert Oracle instructors will teach you how to write more efficient queries using the functions that support 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

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.

### Advanced Features of SQL

By enrolling in this course, you'll also gain exposure to using the advanced features of SQL to query and manipulate data within the database. Learn to control privileges at the object and system level, while deep diving into advanced querying and reporting techniques.

### Reinforce Your Knowledge with Hands-On Practices

During this SQL workshop, you'll use 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 new concepts that are introduced.

### Audience

Application Developers

Forms Developer

Functional Implementer

PL/SQL Developer

System Analysts

### Related Training

#### *Required Prerequisites*

Familiarity with SQL Developer, SQL\*Plus

Basic Knowledge of SQL

Oracle Database: SQL Workshop I

### **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**

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