

## Oracle Database 12c: Introduction for Experienced SQL Users

**Duration:** 2 Days

### What you will learn

In this Oracle Database 12c: Introduction for Experienced SQL Users training, you learn about Oracle Database 12c, the database environment and the Oracle SQL Developer tool. Expert Oracle University instructors will teach you how to create and manage tables, synonyms, sequences, indexes and views.

### Learn To:

Describe the Oracle database environment.

Use various features of Oracle SQL Developer.

Describe and work with the basic elements of Oracle SQL.

Become familiar with fundamental database security features.

Combine tables using joins and subqueries.

Create and manage tables, synonyms, sequences, indexes and views.

Implement database security by granting privileges and creating roles.

### Benefits to You

By enrolling in this course, you'll deep dive into fundamental database security features. By learning to create and manage tables, synonyms, sequences, indexes and views in the Oracle Database 12c environment, you'll be able to better leverage your technology investment.

### Audience

Application Developers  
Data Warehouse Developer  
Database Administrators  
Developer

### Related Training

#### *Required Prerequisites*

Experience with SQL

SQL Developer

#### *Suggested Prerequisites*

Oracle Database: SQL Workshop I Ed 2

Oracle Database: SQL Workshop II Ed 2

### Course Objectives

Use various features of SQL\*Developer

Describe and work with the basic elements of Oracle SQL

Combine tables using joins and subqueries

Create and manage tables, synonyms, sequences, indexes, and views

Implement database security by granting privileges and creating roles

Describe the Oracle database environment

## Course Topics

### Course Overview

Course Objectives, Course Agenda and Class Account Information

Describe the Human Resources (HR) Schema

Identify the Appendices Used in this Course

### Understanding the Oracle Database Environment

Understanding the Oracle Database Environment

Understanding the Oracle Instance

Processing a SQL Statement

Understanding Data Flow During SQL Statement Processing

Understanding Read Consistency

### Using SQL Developer

SQL Developer

### Getting Started with Oracle SQL

Basic SQL statements

How Oracle SQL treats NULLs

Using Pseudocolumns

Using Operators, Expressions and Functions

Understanding Data Types and Date Format

### Combining Tables by Using Advanced Queries

Subqueries

Update and delete rows by using correlated subqueries

Perform joins in Oracle SQL

Create a tree-structured report

Exclude branches from the tree structure

### Creating and Managing Tables

Using CREATE, ALTER, DROP, RENAME, COMMENT, and TRUNCATE statement

Create and maintain integrity constraints

Use the data dictionary to view and maintain information about tables

### Creating and Managing Other Oracle Database Objects

Create and maintain indexes

Create and maintain a view  
Create, maintain, and use sequences  
Create private and public synonyms

### **Oracle Database Extensions to DML and DDL Statements**

Describe the features of multitable INSERT statements  
Merge rows by using the MERGE statement  
Create and use external tables  
Describe transaction processing

### **Controlling User Access**

Discuss the concepts of users, roles, and privileges  
Create users  
Create roles  
Grant and revoke object privileges  
Create and access database links