Oracle Database 11g: Introduction for Experienced SQL Users

Duration: 2 Days

What you will learn

In this course, those with previous ANSI SQL experience are introduced to the Oracle Database 11g environment, SQL Developer, the SQL language and extensions to the ANSI SQL standard. You'll get an overview of the basic elements of SQL.

Learn To:

- Describe the Oracle database environment.
- Use various features of SQL Developer.
- Create and manage database objects such as tables, views, indexes, sequences and synonyms.
- 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.
- How to control user access to the database and how to create roles and grant privileges.
- Implement database security by granting privileges and creating roles.

More Course Topics

This course will also teach you about the SELECT statement, pseudonyms and different types of operators. You'll explore conditions, expressions and functions in SQL as well. Finally, learn how to query from tables using joins and other advanced subqueries.

10g and 11g

This is appropriate for a 10g audience, too. There are few minor changes between 10g and 11g features.

Audience

Administrator
Application Developers
Database Administrators
Forms Developer
PL/SQL Developer
Portal Developer
System Analysts
Technical Consultant

Related Training

Required Prerequisites
Proficiency in ANSI SQL

Basic database concepts

Course Objectives
Describe the Oracle database environment

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

Course Topics

Understanding the Oracle Database Environment
Identify Oracle Database components
Define an instance and how to connect to it
Describe parsing of a SQL statement
Describe the processing of a SQL statement
Declare, reference, and display bind variables
Describe read consistency

Using SQL Developer
List the key features of Oracle SQL Developer
Install Oracle SQL Developer
Identify the menu items of Oracle SQL Developer
Create a database connection
Manage database objects
Use SQL Worksheet
Save and Run SQL scripts
Create and save reports

Getting Started with Oracle SQL
Execute a SELECT statement
Implement pseudocolumns in SQL
Utilize the different types operators, conditions, expressions, and functions in SQL
Convert between data types using explicit data type conversion
Describe how SQL treats NULL values

Combining Tables using Advanced Queries
Write subqueries
Update and delete rows using correlated subqueries
Explain the concept of hierarchical query
Perform joins in SQL
Create a tree-structured report
Exclude branches from the tree structure

Creating and Managing Tables
Create and maintain tables by using the CREATE, ALTER, DROP, RENAME, and TRUNCATE statements
Use the data dictionary to view and maintain information about tables
Create and maintain integrity constraints
Discuss constraint states

Creating and Managing Other Oracle Database Objects
Create and maintain a view
Retrieve, insert, update, and delete data through a view
Create, maintain, and use sequences
Create and maintain indexes
Create private and public synonyms

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

Oracle Database Extensions to DML and DDL Statements
Describe the features of multi table INSERT statements
Use multi table INSERT statements
Merge rows using the MERGE statement
Create and use external tables
Describe transaction processing