

## INTRO to Oracle SQL



### Program Description

This Intro to SQL training teaches you basic concepts of relational databases and the SQL programming language. You'll gain essential SQL skills to write queries against single & multiple tables, manipulate data in tables & create database objects.

This Oracle Database: Introduction to SQL training helps you write subqueries, combine multiple queries into a single query using SET operators and report aggregated data using group functions. Learn this and more through hands-on exercises.

### Program Objectives

- Identify the major structural components of the Oracle Database 12c
- Create reports of aggregated data
- Write SELECT statements that include queries
- Retrieve row and column data from tables
- Run data manipulation statements (DML) in Oracle Database 12c
- Create tables to store data
- Utilize views to display data
- Control database access to specific objects
- Manage schema objects
- Display data from multiple tables using the ANSI SQL 99 JOIN syntax
- Manage objects with data dictionary views

- Write multiple-column sub-queries
- Employ SQL functions to retrieve customized data
- Use scalar and correlated sub-queries
- Create reports of sorted and restricted data

### **Program Audience**

- Administrator
- Analyst
- Developer
- Systems Administrator

### **Pre-Requisite(s) to Attend Program**

Basic knowledge of IT, OS

### **Training Methodology**

- Theory
- LAB

### **Program Outlines**

- Introduction
- Retrieving Data using the SQL SELECT Statement
- Restricting and Sorting Data
- Using Single-Row Functions to Customize Output
- Using Conversion Functions and Conditional Expressions
- Reporting Aggregated Data Using the Group Functions
- Displaying Data from Multiple Tables Using Joins
- Using Subqueries to Solve Queries
- Using the SET Operators
- Managing Tables using DML statements
- Introduction to Data Definition Language
- Introduction to Data Dictionary Views
- Creating Sequences, Synonyms, Indexes
- Creating Views
- Managing Schema Objects
- Retrieving Data by Using Subqueries
- Manipulating Data by Using Subqueries
- Controlling User Access
- Manipulating Data
- Managing Data in Different Time Zones

### **Learn To**

- Understand the basic concepts of relational databases ensure refined code by developers.
- Create reports of sorted and restricted data.

- Run data manipulation statements (DML).
- Control database access to specific objects.
- Manage schema objects.
- Manage objects with data dictionary views.
- Retrieve row and column data from tables.
- Control privileges at the object and system level.
- Create indexes and constraints; alter existing schema objects.
- Create and query external tables.

### **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.

### **Learn Advanced Features of SQL**

- This course will help you understand the advanced features of SQL.
- Learning these features will help you query and manipulate data within the database, use the dictionary views to retrieve metadata and create reports about their schema objects.
- Some of the date-time functions available in the Oracle Database are also covered.
- This course also discusses how to use the regular expression support in SQL through expert instruction.

### **Use Development Tools**

- The main development tool used in this training is Oracle SQL Developer.
- SQL\*Plus is available as an optional development tool. This is appropriate for a 10g, 11g and 12c audience.

**Duration:**05 Days

**Skill level:**All levels

**Language:**English

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