# Introduction to SQL

This Oracle Database: Introduction to SQL training helps you write sub queries, 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.

## 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. This is appropriate for a 10g, 11g and 12c audience.

## Course Content

- **Section 1: Introduction**
- Introduction to SQL
- **Section 2: Retrieving Data using the SQL SELECT Statement**
- Lab Practical
- **Section 3: Restricting and Sorting Data**
- Lab Practical
- **Section 4: Using Single-Row Functions to Customize Output**
- Lab Practical
- **Section 5: Using Conversion Functions and Conditional Expressions**
- Lab Practical
- **Section 6: Reporting Aggregated Data Using the Group Functions**
- Lab Practical
- **Section 7: Displaying Data from Multiple Tables Using Joins**
- Lab Practical
- **Section 8: Using Subqueries to Solve Queries**
- Lab Practical
- **Section 9: Using the SET Operators**
- Lab Practical
- **Section 10: Managing Tables using DML statements**
- Lab Practical
- **Section 11: Introduction to Data Definition Language**
- Lab Practical
- **Section 12 Introduction to Data Dictionary Views**
- Lab Practical
- **Section 13: Creating Sequences, Synonyms, Indexes, Views**
- Lab Practical
- **Section 15: Managing Schema Objects**
- Lab Practical
- **Section 16: Retrieving Data by Using Subqueries**
- Lab Practical
- **Section 17: Manipulating Data by Using Subqueries**
- Lab Practical
- **Section 18: Controlling User Access, Manipulating Data**
- Lab Practical
- **Section 20: Managing Data in Different Time Zones**
- Lab Practical