

# Oracle Database 12c: **SQL Fundamentals**

**Exam Number: 1Z0-061**

**Associate Certifications: Oracle Database 12c Administrator Certified Associate**

## **Introduction**

- Describe the features of Oracle Database 12c
- Describe the salient features of Oracle Cloud 12c
- Explain the theoretical and physical aspects of a relational database
- Describe Oracle server's implementation of RDBMS and object relational database

## **Retrieving Data using the SQL SELECT Statement**

- Explain the capabilities of SQL SELECT statements
- Execute a basic SELECT statement

## **Restricting and Sorting Data**

- Limit the rows that are retrieved by a query
- Sort the rows that are retrieved by a query
- Use ampersand substitution to restrict and sort output at runtime

## **Using Single-Row Functions to Customize Output**

- Describe various types of functions available in SQL
- Use character, number, and date functions in SELECT statements

## **Using Conversion Functions and Conditional Expressions**

- Describe various types of conversion functions that are available in SQL
- Use the TO\_CHAR, TO\_NUMBER, and TO\_DATE conversion functions
- Apply conditional expressions in a SELECT statement

## **Reporting Aggregated Data Using the Group Functions**

- Identify the available group functions
- Describe the use of group functions
- Group data by using the GROUP BY clause
- Include or exclude grouped rows by using the HAVING clause

## **Displaying Data From Multiple Tables Using Joins**

- Write SELECT statements to access data from more than one table using equijoins and nonequijoins
- Join a table to itself by using a self-join
- View data that generally does not meet a join condition by using OUTER joins
- Generate a Cartesian product of all rows from two or more tables

## **Using Subqueries to Solve Queries**

- Define subqueries

## **Highlights of the Certifications**

- International Certification
- Ensures Complete knowledge of SQL
- Ensures Complete knowledge of Basics of PL-SQL
- Adds value to your Resume

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  - COC -> Certificate Of Completion

- Describe the types of problems that the subqueries can solve
- Describe the types of subqueries
- Write single-row and multiple-row subqueries
- Using the SET Operators
- Describe set operators
- Use a set operator to combine multiple queries into a single query
- Control the order of rows returned

#### **Managing Tables using DML statements**

- Truncate data
- Insert rows into a table
- Update rows in a table
- Delete rows from a table
- Control transactions

#### **Introduction to Data Definition Language**

- Categorize the main database objects
- Explain the table structure
- Describe the data types that are available for columns
- Create a simple table
- Explain how constraints are created at the time of table creation
- Describe how schema objects work

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