**1Z0- 071 Certification Topics :**

**Oracle and Structured Query Language (SQL)**

* Identify the connection between an ERD and a Relational Database
* Explain the relationship between a database and SQL
* Describe the purpose of DDL
* Describe the purpose of  DML
* Build a SELECT statement to retrieve data from an Oracle Database table

**Restricting and Sorting Data**

* Use the ORDER BY clause to sort SQL query results
* Limit the rows that are retrieved by a query
* Use ampersand substitution to restrict and sort output at runtime
* Use SQL row limiting clause

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

* Use various types of functions available in SQL
* Use character, number, and date and analytical (PERCENTILE\_CONT, STDDEV, LAG, LEAD) 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 general functions and conditional expressions in a SELECT statement

**Reporting Aggregated Data Using the 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**

* Describe the different types of joins and their features
* Use 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

**Using Subqueries to Solve Queries**

* Define subqueries
* Describe the types of problems subqueries can solve
* Describe the types of subqueries
* Query data using correlated subqueries
* Update and delete rows using correlated subqueries
* Use the EXISTS and NOT EXISTS operators
* Use the WITH clause
* Use 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

**Manipulating Data**

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

**Using DDL Statements to Create and Manage Tables**

* Describe data types that are available for columns
* Create a simple table
* Create constraints for tables
* Drop columns and set column UNUSED
* Create and use external tables

**Managing Objects with Data Dictionary Views**

* Query various data dictionary views

**Controlling User Access**

* Differentiate system privileges from object privileges
* Grant privileges on tables and on a user
* Distinguish between privileges and roles

**Managing Schema Objects**

* Describe how schema objects work
* Create simple and complex views with visible/invisible columns
* Create, maintain and use sequences
* Create and maintain indexes including invisible indexes and multiple indexes on the same columns
* Perform flashback operations

**Manipulating Large Data Sets**

* Describe the features of multitable INSERTs
* Merge rows in a table