

## Oracle Database-Developer 12C

### SQL

**Duration:** 56 hrs

**Prerequisite:**

- Computer Programming Fundamentals, Windows Operating System

**Course Contents:**

- 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

## PL/SQL

**Duration:** 56 hrs

### **Prerequisite:**

- Oracle Database 12c : Introduction to SQL

### **Content :**

- Introduction to PL/SQL
- Declaring PL/SQL variables
- Writing executable statements
- Using SQL statements within a PL/SQL block
- Writing control structures
- Working with composite data types
- Using explicit cursor
- Handling exceptions
- Introducing stored procedures and functions
- Creating procedure
- Creating functions and debugging subprograms
- Creating packages
- Working with packages
- Using Oracle supplied packages in application development
- Using dynamic SQL
- Design considerations for PL/SQL code
- Creating triggers
- Creating compound, DDL and Event database triggers
- Using the PL/SQL compiler
- Managing dependencies

## Advanced PL/SQL

**Duration:** 32 hrs

**Prerequisite:**

- Oracle Database 12c : Program with PL/SQL

**Content :**

- PL/SQL programming concepts review
- Designing PL/SQL code
- Working with collections
- Manipulating Large Objects
- Using advanced interface methods
- Performance and tuning
- Improving performance with caching
- Analyzing PL/SQL code
- Profiling and tracing PL/SQL code
- Implementing Fine-Grained Access Control for VPD
- Safeguarding your code against SQL injection attacks