

# Oracle Database 11g Programming with PL/SQL



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## Course Duration: 3 days

### Overview:

You will use PL/SQL to create programs with program units such as procedures, functions, packages, and database triggers to enhance data manipulations.

### Target Student:

This course is designed for IT Professionals with programming experience. The target student will also have experience in using SQL with Oracle 10g or 11g.

### Prerequisites:

Students enrolling in this class should have knowledge of working with Oracle databases. To ensure your success, we recommend that you first complete the following courses or have equivalent knowledge:

- Oracle Database 11g: Introduction
- Oracle Database 11g: SQL Fundamentals I & II

### Course Objectives:

Upon successful completion of this course, students will be able to:

- Write a simple PL/SQL program to familiarize themselves with the fundamentals and structure of PL/SQL blocks.
- Create a PL/SQL program using variables and lexical units.
- Use control structures to help them incorporate decision-making approach to programming.
- Handle PL/SQL exceptions.
- Work with PL/SQL cursors to embed SQL in PL/SQL code or call PL/SQL functions within SQL structures.
- Create PL/SQL subprograms.
- Use PL/SQL collections and records to enhance database performance during data processing.
- Develop and use PL/SQL packages.
- Create triggers to automatically trigger validation procedures when a table is modified.
- Use the PL/SQL compiler.
- Manage dependencies.
- Use dynamic SQL to handle changes in data definitions without recompiling.

## Course Content

### Lesson 1: Getting Started with PL/SQL Programming

**Topic 1A:** Examine PL/SQL Basics

**Topic 1B:** Write a Simple PL/SQL Program Block

### Lesson 2: Using Variables and Lexical Units

**Topic 2A:** Use PL/SQL Variables and Data Types

**Topic 2B:** Use PL/SQL Lexical Units

**Course content continues on next page:**

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## **Lesson 3: Using Control Structures**

**Topic 3A:** Use PL/SQL Operators and Expressions

**Topic 3B:** Use Conditional Statements

**Topic 3C:** Use Iterative Statements

## **Lesson 4: Handling PL/SQL Exceptions**

**Topic 4A:** Handle System-Defined Exceptions

**Topic 4B:** Handle User-Defined Exceptions

## **Lesson 5: Working with PL/SQL Cursors**

**Topic 5A:** Manage Data Using Cursors

**Topic 5B:** Retrieve Data Using the Cursor with Looping Mechanisms

## **Lesson 6: Creating PL/SQL Subprograms**

**Topic 6A:** Use Stored Subprograms

**Topic 6B:** Create User-Defined Subprograms

## **Lesson 7: Improving Database Performance with PL/SQL Collections and Records**

**Topic 7A:** Work with Collections

**Topic 7B:** Create Record Variables

## **Lesson 8: Using PL/SQL Packages**

**Topic 8A:** Create Packages

**Topic 8B:** Work with Product-Specific Packages

## **Lesson 9: Creating Triggers**

**Topic 9A:** Create a Simple Trigger

**Topic 9B:** Create a Compound Trigger

## **Lesson 10: Using the PL/SQL Compiler**

**Topic 10A:** Apply Conditional Compilation

**Topic 10B:** Hide PL/SQL Code

## **Lesson 11: Managing Dependencies**

**Topic 11A:** Work with Trigger Dependencies

**Topic 11B:** Manage Package Dependencies

## **Lesson 12: Use Dynamic SQL**

**Topic 12A:** Use Native Dynamic SQL

**Topic 12B:** Work with the DBMS\_SQL Package

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