

ORACLE DATABASE 11G: PROGRAM WITH PL/SQL (D49990GC10)

DURATION: 5 DAYS

COURSE OVERVIEW

This class is applicable to Oracle8i, Oracle9i and Oracle Database 10g users.

This course introduces students to PL/SQL and helps them understand the benefits of this powerful programming language. In the class, students learn to create PL/SQL blocks of application code that can be shared by multiple forms, reports, and data management applications.

Students learn to create anonymous PL/SQL blocks, stored procedures, and functions. They learn about declaring variables and trapping exceptions. Students will also learn to develop stored procedures, functions, packages and database triggers. Students will learn to manage PL/SQL program units manage dependencies, manipulate large objects, and use some of the Oracle-supplied packages. Students use iSQL*Plus to develop these program units. Demonstrations and hands-on practice reinforce the fundamental concepts.

This course counts towards the Hands-on course requirement for the Oracle Database 10g Administrator Certification. Only instructor-led in class or instructor-led online formats of this course will meet the Certification Hands-on Requirement. Self-Study CD-Rom and Knowledge Center courses are excellent study and reference tools but DO NOT meet the Hands-on Requirement for certification.

TARGET AUDIENCE

1. PL/SQL Developer
2. Database Designers
3. Forms Developer
4. Technical Consultant

COURSE OBJECTIVES

1. Design PL/SQL anonymous blocks that execute efficiently
2. Write PL/SQL code to interface with the database
3. Describe the features and syntax of PL/SQL
4. Use PL/SQL programming constructs and conditionally control code flow (loops, control structures, and explicit cursors)
5. Handle runtime errors
6. Create simple procedures and functions
7. Design PL/SQL packages to group and contain related constructs

8. Categorize and Use the Oracle supplied PL/SQL packages to generate screen output, file output, web output, and mail output
9. Schedule PL/SQL jobs to run independently
10. Write dynamic SQL for more coding flexibility
11. Create triggers to solve business challenges
12. Manage dependencies between PL/SQL subprograms

COURSE CONTENT

1. Introduction to PL/SQL
2. Declaring PL/SQL Identifiers
3. Writing Executable Statements
4. Interacting with the Oracle Server
5. Writing Control Structures
6. Working with Composite Data Types
7. Using Explicit Cursors
8. Handling Exceptions
9. Creating Stored Procedures
10. Creating Stored Functions
11. Creating Packages
12. Using More Package Concepts
13. Utilizing Oracle Supplied Packages in Application Development
14. Dynamic SQL and Metadata
15. Design Considerations for PL/SQL Code
16. Managing Dependencies
17. Manipulating Large Objects
18. Creating Triggers
19. Applications for Triggers
20. Understanding and Influencing the PL/SQL Compiler

COURSE PREREQUISITES

Oracle Database 11g: Introduction to SQL