Oracle11g PL/SQL Programming

Course Summary

Description

The course provides a comprehensive introduction to PL/SQL, Oracle's procedural language extension to SQL. PL/SQL is used to write stored procedures, packages, and database triggers. PL/SQL will be of particular interest to individuals developing applications in a client-server or multi-tier environment.

Topics

- Overview of PL/SQL
- Variables and Constants
- PL/SQL Executable Statements
- Embedding SQL within PL/SQL
- PL/SQL in the SQL*Plus Environment
- Handling Exceptions
- PL/SQL Built-in Functions
- Subprograms
- PL/SQL on the Server
- Using Predefined Packages

Audience

This course is designed for programmers and database administrators responsible for the development or maintenance of application systems which access an Oracle database.

Prerequisites

Students should have taken the Oracle11g SQL & SQL*Plus course and knowledge of a procedural language (e.g., COBOL, C) is required.

Duration

Three days

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Course Outline

I. Overview of PL/SQL

II. Variables and Constants
- A. Identifiers
- B. Datatypes
- C. Variables
- D. Associative Arrays
- E. Expressions

III. PL/SQL Executable Statements
- A. Control Structures
- B. Conditional Statements
- C. Loops

IV. Embedding SQL within PL/SQL
- A. Implicit Cursors
- B. Explicit Cursors
- C. Parameterized Cursors
- D. Transaction Processing
- E. Cursor Variables

V. PL/SQL in the SQL*Plus Environment

VI. Handling Exceptions
- A. Predefined Exceptions
- B. User-Defined Exceptions
- C. RAISE Statement
- D. Propogation of Exceptions

VII. PL/SQL Built-in Functions
- A. Subprograms
- B. Procedures
- C. Functions
- D. Parameter Modes
- E. RETURN Statement
- F. Overloading
- G. Recursion

VIII. PL/SQL on the Server
- A. Stored Procedures
- B. Stored Functions
- C. Subprogram Inlining
- D. Introduction to Database Triggers

IX. Using Predefined Packages

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