

Oracle Database 11g R2: PL/SQL Fundamentals I

Length of Course: 3 days

This Oracle 11g courseware training guide book will provide an introduction to the PL/SQL database programming language, based upon the latest features available with the Oracle database. Syntax, structure and features of the language are discussed in the context of database applications and programming. In addition to receiving the print copy of this course book, all students will receive e-Learning modules.

Target Audience

Target audience for this course is all Oracle professionals. Among the specific groups for whom this course will be helpful are:

- Application designers and developers
- Database administrators
- Business users and non-technical senior end users

Prerequisites

The course ORACLE DATABASE 11G: SQL FUNDAMENTALS – COMPLETE LIBRARY is a mandatory prerequisite for this course.

Certification

This course considers subjects useful for certification as an Oracle Certified Master (OCM), the most advanced and prestigious Oracle database certification level.

Objectives

- Understand the environment and context in which PL/SQL operates.
- Consider the advantages and benefits of PL/SQL within a database environment.
- Declaring program variables and complex data types.
- Developing logic within PL/SQL program blocks.
- Fetching data from the database into program variables.
- Returning program output to users.
- Handling program exceptions.
- Using explicit and implicit database cursors.
- Using the advanced features of nested blocks and subprograms.
- Advanced features: regular expression support, handling string literals within program code.



Contents

Choosing a SQL & PL/SQL Interface

- using SQL Developer
- using SQL*Plus
- using application express
- using JDEVELOPER studio

Language Features

- understanding PL/SQL
- structure of a PL/SQL program block
- using PL/SQL from SQL*plus

Declare Clause

- About the declare clause
- declare simple types
- declare complex types
- type ... Table
- type ... Record

Begin Clause

- About the begin clause
- performing data manipulation
- logic control & branching
- loop
- if-then-else
- case

Exception Clause

- About the exception clause
- isolating the specific exception
- PRAGMA EXCEPTION_INIT
- SQL%ROWCOUNT & SELECT...INTO

Explicit Cursors

- About explicit cursors
- advanced cursor techniques

Advanced Programming: Declared Subprograms

