Oracle PL/SQL

Duration: 2 Days   Course Code: OPI   Delivery Method: Company Event

Overview:

The Oracle PL/SQL course is designed to introduce Oracle DBAs,software development personnel and database support staff to the primary features and constructs of the PL/SQL Programming Language.
Versions supported 11gR2,12cR2,18c,19c.

Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

Target Audience:

Oracle database administrators,software development personnel and database support staff who need to write PL/SQL scripts to enhance their productivity in manipulating data.

Objectives:

■ To provide the skills needed to write stand-alone programs using the main features of Oracle's PL/SQL Programming Language.

Prerequisites:

A working knowledge of SQL*Plus or SQL Developer and Oracle SQL is required along with practical experience in writing SQL statements. This can be obtained by attendance on the pre-requisite course. Some previous programming experience will also prove advantageous.

Follow-on-Courses:
■ Oracle PL/SQL Stored Program Units (OSPU)
■ Oracle Forms - Part I (OF19I)
■ Oracle Database 19c Administration (O19CDBA)

Content:

Oracle PL/SQL Training Course   Course Contents - DAY 1

Course Introduction

- Administration and Course Materials
- Course Structure and Agenda
- Delegate and Trainer Introductions

Session 1: PL/SQL FUNDAMENTALS

- What is PL/SQL?
- Basic Elements
- Variables and Constants
- Data Types
- Initialising Variables and Assigning Values
- Using SQL Statements in Code
- Generating Output to SQL or SQL Developer

Session 2: PROGRAM LOGIC

- IF THEN ELSIF ELSE Statements
- CASE Statements
- The Basic Loop Construct
- WHILE and FOR Loops
- Nested and Labelled Loops
- The GOTO Statement
- The CONTINUE Statement

Session 3: USING CURSORS

- What is a Cursor?
- Implicit and Explicit Cursors
- Cursor Operations
- Declaring,Opening and Closing Cursors
- Fetching Rows
- Status Checking
- Using Cursors FOR UPDATE
- The Cursor FOR Loop
- Parameterised Cursors   Oracle PL/SQL Training Course   Course Contents - DAY 2

Session 4: EXCEPTIONS AND NESTED BLOCKS

- The EXCEPTION Section
- Types of Exception
- Handling Named System-Raised Exceptions
- Handling Un-named System-Raised Exceptions
- User-Declared Exceptions and Application Errors
- WHEN OTHERS THEN NULL
- Nested and Labelled Blocks
- Propagation of Exceptions
- Scope of Variables and Cursors
- Scope of Goto Statements

Session 5: PL/SQL RECORDS AND INDEX-BY TABLES

- Declaring Record Types
- Handling PL/SQL Records
- Nested Records
- Declaring PL/SQL Index-By Tables or Associative Arrays
- PL/SQL Table Built-in Functions
- Manipulating PL/SQL Tables or Associative Arrays

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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