

€ TRAINING

ORACLE PL SQL



1 - 5 December 2024
Online



ORACLE PL SQL

REF: B1614 DATE: 1 - 5 December 2024 Venue: Online - Fee: 2250 Euro

Introduction:

This training program provides participants with essential knowledge and skills in Oracle PL/SQL programming. It empowers them to develop, execute, and manage PL/SQL programs effectively within Oracle databases.

Program Objectives:

At the end of this program, participants will be able to:

- Understand the basics of PL/SQL programming language.
- Write and execute PL/SQL programs.
- Use PL/SQL for data manipulation and transaction control.
- Handle exceptions and debug PL/SQL code.
- Develop stored procedures, functions, and triggers.

Targeted Audience:

- Database Administrators.
- Application Developers.
- IT Professionals involved in database management.
- Oracle Developers seeking foundational PL/SQL skills.
- Professionals aiming to enhance their Oracle database skills.

Program Outline:

Unit 1:

Introduction to PL/SQL:

- Overview of PL/SQL and its advantages.
- Understanding PL/SQL architecture.
- PL/SQL block structure.
- Writing simple PL/SQL programs.

- Executing PL/SQL programs in SQL*Plus and Oracle SQL Developer.

Unit 2:

PL/SQL Language Fundamentals:

- Declaring variables and constants.
- Data types and data conversion.
- Using operators and expressions.
- Control structures IF statements, loops.
- Working with composite data types records, collections.

Unit 3:

SQL in PL/SQL:

- Embedding SQL statements in PL/SQL.
- Data manipulation SELECT, INSERT, UPDATE, DELETE.
- Using cursors for query processing.
- Explicit and implicit cursors.
- Cursor attributes and loops.

Unit 4:

PL/SQL Subprograms and Packages:

- Creating and using procedures.
- Creating and using functions.
- Parameter modes IN, OUT, IN OUT.
- Introduction to packages.
- Creating package specifications and bodies.

Unit 5:

Triggers and Advanced PL/SQL:



- Introduction to triggers and their uses.
- Creating DML triggers.
- Working with collections associative arrays, nested tables, VARRAYs.
- Bulk operations BULK COLLECT, FORALL.
- Principles of secure coding in PL/SQL.