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Price: R6,900.00 excl. VAT
Duration: 3 days
Code: PLSQL

Oracle PL/SQL Development

Description

The Oracle PL/SQL Development course is aimed at developers as it focuses on the programming elements of Oracle's PL/SQL Language. It also includes some of the more advanced Oracle SQL features and extensions to standard ANSI SQL.

Objectives

Delegates with the requisite background who complete the Oracle PL/SQL Development course will be able to:

- Use PL/SQL Developer in a productive fashion.
- Create, debug and maintain PL/SQL packages, types, procedures, functions and triggers.
- Formulate program flow using selection, iteration and error control statements.
- Use language elements such as blocks, parameters, local variables, arrays, temporary tables and cursors.

Intended Audience

The Oracle PL/SQL Development course is intended for developers who require a PL/SQL foundation in order to create, debug and maintain types, packages, procedures, functions and triggers.

Prerequisites

Delegates who wish to attend the Oracle PL/SQL Development course must have programming experience and either our SQL Fundamentals course or familiarity with the more common aspects of SQL (Standard SQL or Oracle's version).

Course Contents

The lecturer reserves the right to modify the contents of the course to suit the needs of the delegates.

Fundamentals • Database components.• Standard & 3rd party tools.• Storage & Architecture. • Networking.• Creating & using databases.• Data dictionary.• Security.• Table spaces. • Clusters.• Indexes.• Schemas.• Synonyms.• Links.

PL/SQL Developer • Features.• Installation.• Applicability to various tasks.• Integration of Oracle's HTHL help files. • Customization.• Views.• Windows.• Database exploration.• Code editor. • Command window.• Ad hoc queries.• Statistics.

Oracle SQL • ANSI SQL vs Oracle SQL.• Data types. • Literals.• Expressions.• Operators.• Scalar & aggregate functions. • Constraints.• Indices.• Views.• Materialized queries.• Object comments. • Temporary tables.• Sequences.• Joins.• Set operations.• Transactions & save points. • Limiting rows & ranking.• Regular expressions.• Performance.• Explain plan.

PL/SQL • Procedural features.• Relationship with SQL.• Blocks.• Declarations.• Host variables. • PL/SQL variables, constants, collections & objects.• Error codes.• Statements: selection, iteration, error handling (exceptions). • Cursors.• Packages.• Libraries.• Other data structures. • Dynamic SQL.

Stored Procedures • Structure.• Parameters.• Output parameters.• Local variables. • Arrays.• Temporary Tables.• Calling from interactive tools & other languages.

Functions • Structure.• Return values.• Functions that access tables (issues & solutions).

Triggers • Concepts.• Syntax.• Table & Row triggers.• Before & After triggers.• Old vs New data. • Performance issues & other considerations.• Allowable actions.

Miscellaneous • Good coding practices. • Documentation. • Oracle File System (OFS). • Other development scenarios.