

Course duration

- 5 days

Course Benefits

- Learn what PL/SQL is.
- Learn how to declare, name, assign and output variables in PL/SQL.
- Learn about data types in PL/SQL.
- Learn about the main features of PL/SQL.
- Learn how to write a simple block of PL/SQL code.
- Learn about subprograms in PL/SQL.
- Learn to create and call procedures.
- Learn to create and call functions.
- Understand BOOLEAN values and expressions.
- Learn to write IF conditions.
- Learn to use the CASE statement.
- Learn to handle exceptions in PL/SQL.
- Learn about how cursors works.
- Learn to use implicit cursors.
- Learn to use explicit cursors.
- Learn to use packages to group related PL/SQL objects.
- Learn to use triggers for validating data and auditing changes to the database.

Available Delivery Methods

Public Class

Public expert-led online training from the convenience of your home, office or anywhere with an internet connection. Guaranteed to run .

Private Class

Private classes are delivered for groups at your offices or a location of your choice.

Self-Paced

Learn at your own pace with 24/7 access to an On-Demand course.

Course Outline

1. PL/SQL Basics

1. What is PL/SQL?
2. Blocks
3. Outputting Information
4. Variables and Constants
5. Constants
6. Data Types
7. Naming Variables and Other Elements
8. Embedding SQL in PL/SQL
9. SELECT...INTO and RETURNING...INTO
10. PL/SQL Features
2. Subprograms
 1. Introduction to Subprograms
 2. Procedures
 3. Variable Declarations
 4. Dropping a Procedure
 5. Parameters
 6. Parameters with Default Values
 7. Parameter Modes
 8. IN Mode
 9. OUT Mode
 10. IN OUT Mode
 11. Named Notation
 12. Using SQL in a Subprogram
 13. %TYPE
 14. Functions
 15. Using PL/SQL Functions in SQL Queries
3. Conditional Processing
 1. Conditions and Booleans
 2. IF-ELSIF-ELSE Conditions
 3. ELSIF
 4. BOOLEAN Values and Standard SQL
 5. The CASE Statement
 6. CASE Expressions
4. Exceptions
 1. Introduction to Exceptions
 2. Predefined Exceptions
 3. The EXCEPTION Part of the Block
 4. User-defined Exceptions
 5. User-defined Exceptions in Subprograms
 6. Re-raising Exceptions
 7. Naming Unnamed Predefined Exceptions
 8. WHILE Loops
 9. When to Use Exceptions
5. Cursors
 1. Implicit Cursors
 2. Explicit Cursors
 3. %ROWTYPE

4. Explicit Cursor Use Case
5. Cursor FOR LOOP
6. Cursor Parameters
6. Packages
 1. Package Basics
 2. The Package Specification
 3. The Package Body
 4. Building an Employee Package
 5. Overloading Subprograms
 6. Auditing
 7. Validation Procedures
 8. Package Cursors
 9. Benefits of Packages
7. Triggers
 1. What are triggers?
 2. Trigger Parts
 3. Validation Triggers
 4. The WHEN Clause
 5. Audit Triggers
 6. Statement-level Triggers
 7. Compound Triggers
 8. Trigger Warning

Class Materials

Each student will receive a comprehensive set of materials, including course notes and all the class examples.

Prerequisite Courses

Courses that can help you meet these prerequisites:

- [Oracle SQL Training](#)