

CONTENTS

Duration: 35 Hours

- 1 PL/SQL Concepts.
 - 1.1 PL/SQL Client Server Architecture
 - 1.1.1 Use PL/SQL Anonymous Blocks
 - 1.1.2 Understand How PL/SQL gets executed.
 - 1.2 PL/SQL in SQL*Plus
 - 1.2.1 Use Substitution Variables
 - 1.2.2 Use DBMS_OUTPUT.PUT_LINE statement
- 2 General Programming Language Fundamentals
 - 2.1 PL/SQL Programming Fundamentals
 - 2.1.1 Make Use of PL/SQL Components
 - 2.1.2 Male Use of PL/SQL Variables
 - 2.1.3 Handle PL/SQL Reserved Words
 - 2.1.4 Make Use of Identifiers in PL/SQL
 - 2.1.5 Make Use of Anchored Data Types
 - 2.1.6 Declare and Initialize Variables
 - 2.1.7 Understand the Scope of a Block, Nested Blocks, and Labels
- 3 SQL in PL/SQL
 - 3.1 Making Use of DML in PL/SQL
 - 3.1.1 Use the SELECT INTO syntax for variable initialization
 - 3.1.2 Use DML in PL/SQL Block
 - 3.1.3 Make use of sequence in a PL/SQL Block
- 4 Conditional Control: IF Statements
 - 4.1 IF statement
 - 4.1.1 Use IF-THEN statements
 - 4.1.2 Use IF-THEN-ELSE statement
 - 4.2 ELSIF Statement
 - 4.3 Nested IF Statement
- 5 Conditional Control: CASE Statements
 - 5.1 CASE statement
 - 5.1.1 Use the CASE statement
 - 5.1.2 Use Searched CASE statement
 - 5.2 CASE Expression
- 6 Iterative Control: Part 1
 - 6.1 Simple Loops
 - 6.1.1 Use Simple Loops with EXIT condition
 - 6.1.2 Use Simple Loops with EXIT WHEN condition
 - 6.2 WHILE Loop
 - 6.3 Numeric FOR Loops
 - 6.3.1 Use the Numeric FOR loops with IN option
 - 6.3.2 Use the Numeric FOR loops with REVERSE Option
- 7 Iterative Control: Part 2

- 7.1 The Continue Statement
 - 7.1.1 Use the CONTINUE statement
 - 7.1.2 Use the CONTINUE WHEN condition
 - 7.1.3 Nested Loops
- 8 Error Handling and Built-In Exceptions
 - 8.1 Handling Errors
 - 8.1.1 Understand the importance of Error Handling
 - 8.2 Built-in Exception
- 9 Exceptions
 - 9.1 Exception Scope
 - 9.2 User defined Exception
 - 9.3 Exception Propagation
 - 9.3.1 Understand How exception Propagate
 - 9.3.2 Re-raise Exception.
- 10 Exceptions: Advanced Concepts
 - 10.1 RAISE_APPLICATION_ERROR
 - 10.2 EXCEPTION_INIT Pragma
 - 10.3 SQLCODE and SQLERRM
- 11 Introduction to Cursors
 - 11.1 Cursor Manipulation
 - 11.1.1 Make Use of Record Types
 - 11.1.2 Process an Explicit Cursor
 - 11.1.3 Make Use of Cursor Attributes
 - 11.2 Using Cursor FOR loops and Nested Cursors
 - 11.2.1 Use a Cursor FOR loop
 - 11.2.2 Process Nested Cursors
- 12 Advanced Cursors
 - 12.1 Using Parameters with Cursors.
 - 12.2 FOR UPDATE and WHERE CURRENT cursors
- 13 Triggers
 - 13.1 What are Triggers
 - 13.1.1 Understand what a Trigger is
 - 13.1.2 Use BEFORE and AFTER triggers
 - 13.2 Type of Triggers
 - 13.2.1 Use Row and Statement Triggers
 - 13.2.2 Use INSTEAD of Triggers
- 14 Compound Triggers
 - 14.1 Mutating Table Issue
 - 14.2 Compound Trigger
- 15 Collections.
 - 15.1 PL/SQL Tables
 - 15.1.1 Use Associative Array
 - 15.1.2 Use Nested Tables
 - 15.2 Varray

- 16 Records
 - 16.1 Record Types
 - 16.1.1 Use Table-Based and Cursor-Based records
 - 16.1.2 Use User-Defined Records
 - 16.2 Nested Records
 - 16.3 Collection Records
- 17 Native Dynamic SQL
 - 17.1 EXECUTE IMMEDIATE Statement
 - 17.2 OPEN-FOR, FETCH and CLOSE statements
- 18 Procedures
 - 18.1 Creating Procedures
 - 18.1.1 Create Procedures
 - 18.1.2 Query the Data Dictionary for information on Procedures
 - 18.2 Passing parameters into and out of Procedures
- 19 Functions
 - 19.1 Creating and Using Functions
 - 19.1.1 Create Stored Functions
 - 19.1.2 Make use of Functions
 - 19.1.3 Invoke Functions in SQL statements
- 20 Packages
 - 20.1 The Benefits of Using Packages
 - 20.1.1 Create Package Specification
 - 20.1.2 Create Package Bodies
 - 20.1.3 Call Stored Packages
 - 20.1.4 Create Package Variables and Cursors