



PL SQL:

PL/SQL (Procedural Language for SQL) is Oracle Corporation's procedural extension for SQL and therefore the Oracle on-line database. PL/SQL is on the market in Oracle info. Oracle Corporation sometimes extends PL/SQL practicality with every serial unleash of the Oracle info.

PL/SQL includes procedural language components like conditions and loops. It permits declaration of constants and variables, procedures and functions, sorts and variables of these sorts, and triggers. It will handle exceptions (run-time errors). Arrays area unit supported involving the employment of PL/SQL collections. Implementations from version eight of Oracle info forward have enclosed options related to object-orientation.

PL/SQL is essentially a procedural language that provides the practicality of higher cognitive process, iteration and lots of additional options of procedural programming languages. ... One will produce a PL/SQL unit like procedures, functions, packages, triggers, and types, that area unit keep within the info for apply by applications.

Course Content:

Basics of PL/SQL:

- PL/SQL architecture
- PL/SQL and SQL*Plus
- PL/SQL Basics, Variables, Constants, data types & error handling
- PL/SQL wrapper utility



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- PL/SQL structures
- Simple blocks
- Control structures

PL/SQL records:

- Recognizing the Basic PL/SQL Block and Its Sections
- Describing the Significance of Variables in PL/SQL
- Distinguishing Between PL/SQL and Non-PL/SQL Variables
- Declaring Variables and Constants
- Executing a PL/SQL Block

Error checking exception handling:

- Defining exceptions
- Using the when others clause
- Ensuring complete error checking
- Passing error messages to calling routine

Boolean logic in PL/SQL:

- Identifying the Uses and Types of Control Structures



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- Constructing an IF Statement
- Constructing and Identifying Different Loop Statements
- Controlling Block Flow Using Nested Loops and Labels
- Using Logic Tables
- If-then-else structure
- Testing for numbers characters and Booleans

Cursors in PL/SQL:

- Cursor basics
- Using a cursor for a multi-row SQL query

Iteration in PL/SQL:

- For loop
- While loop

PL/SQL tables:

- Defining PL/SQL tables
- Reasons to use PL/SQL tables
- Populating a PL/SQL table



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- Retrieving from a PL/SQL table

Dynamic SQL in PL/SQL:

- Introduction to the dbms_sql package
- Creating a dynamic SQL statement

Nested blocks in PL/SQL:

- Introduction to the dbms_sql package
- Creating a dynamic SQL statement

Triggers in PL/SQL:

- Triggers and database events
- Defining a trigger
- Timing a trigger
- Enabling and disabling a trigger

Stored procedures, functions and packages:

- Basics of stored procedures
- Basics of functions



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- stored procedures & functions
- Function and stored procedures prototypes
- Passing arguments to functions and stored procedures
- Recompiling functions and stored procedures
- Pinning packages in the SGA with `dbms_shared_pool.keep`
- Package forward declaration
- Package dependency
- Package overloading
- Listing package information

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