

# ORACLE – PL SQL COURSE CONTENT

1. 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
2. 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
3. Error checking ? exception handling
  - Defining exceptions
  - Using the when others clause
  - Ensuring complete error checking
  - Passing error messages to calling routine
4. Boolean logic in PL/SQL
  - Identifying the Uses and Types of Control Structures
  - 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
5. Cursors in PL/SQL
  - Cursor basics

- Using a cursor for a multi-row SQL query
6. Iteration in PL/SQL
    - For loop
    - While loop
  7. PL/SQL tables
    - Defining PL/SQL tables
    - Reasons to use PL/SQL tables
    - Populating a PL/SQL table
    - Retrieving from a PL/SQL table
  8. Dynamic SQL in PL/SQL
    - Introduction to the dbms\_sql package
    - Creating a dynamic SQL statement
  9. Nested blocks in PL/SQL
    - Introduction to the dbms\_sql package
    - Creating a dynamic SQL statement
  10. Triggers in PL/SQL
    - Triggers and database events
    - Defining a trigger
    - Timing a trigger
    - Enabling and disabling a trigger
  11. Stored procedures, functions and packages
    - Basics of stored procedures
    - Basics of functions
    - Basics of packages
    - Defining 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

## 12. Bulking in PL/SQL

- Bulk queries
- Bulk DML (forall statement)
- Using cursor attributes
- Analyzing impact of bulk operations

1.