

# Oracle 11g: PL/SQL

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**Duration: 40 Hours**

**Prerequisites**

- Oracle SQL

**Topics**

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**1. PL/SQL Structure**

- Variables
- Data type

**2. Creating the Executable Section**

- Comments
- Literals
- Operator
- Output Statement
- Accepting input from user
- Variable scope
- Function
- Programs using SQL Statements in PL/SQL

**3. Writing Control Structures**

- If statement in PL/SQL
- If...else statement in PL/SQL
- Else if ladder statement in PL/SQL
- LOOPS in PL/SQL

**4. Working with Composite Data Types**

- PL/SQL Records
- Collections

**5. Cursors**

- PL/SQL Attributes Cursor Attributes
- Using cursor with for ...loop

**6. Exception Handling**

- What is an Exception?
- How to handle Exception?
- Predefined Exception
- Get information about error with – SQLCODE and SQLERRM
- Non Predefined Error
- User Defined Exception

**7. Stored Procedures**

- Advantages of procedures
- Creating procedure
- Formal and actual parameters in procedure
- Using Anonymous block to invoke a procedure
- Default option for parameters
- Using Sub Procedures
- Calling procedure from another procedure
- Handled and Unhandled Exception when procedure called
- Delete procedure

**8. Functions**

- Advantages of Functions
- Calling function in SQL statement
- Restriction on calling function in SQL statement
- Deleting a Function
- Difference between function and procedure

**9. Packages**

- Advantages of packages
- Package Structure
- Executing the procedure and function
- Removing package

**10. Triggers**

- Creating a trigger
- Accessing a column using row trigger
- Using Statement trigger
- Modifying a Trigger
- Enabling and Disabling a trigger
- Dropping a trigger

**11. Oracle Architecture- Complimentary Session**