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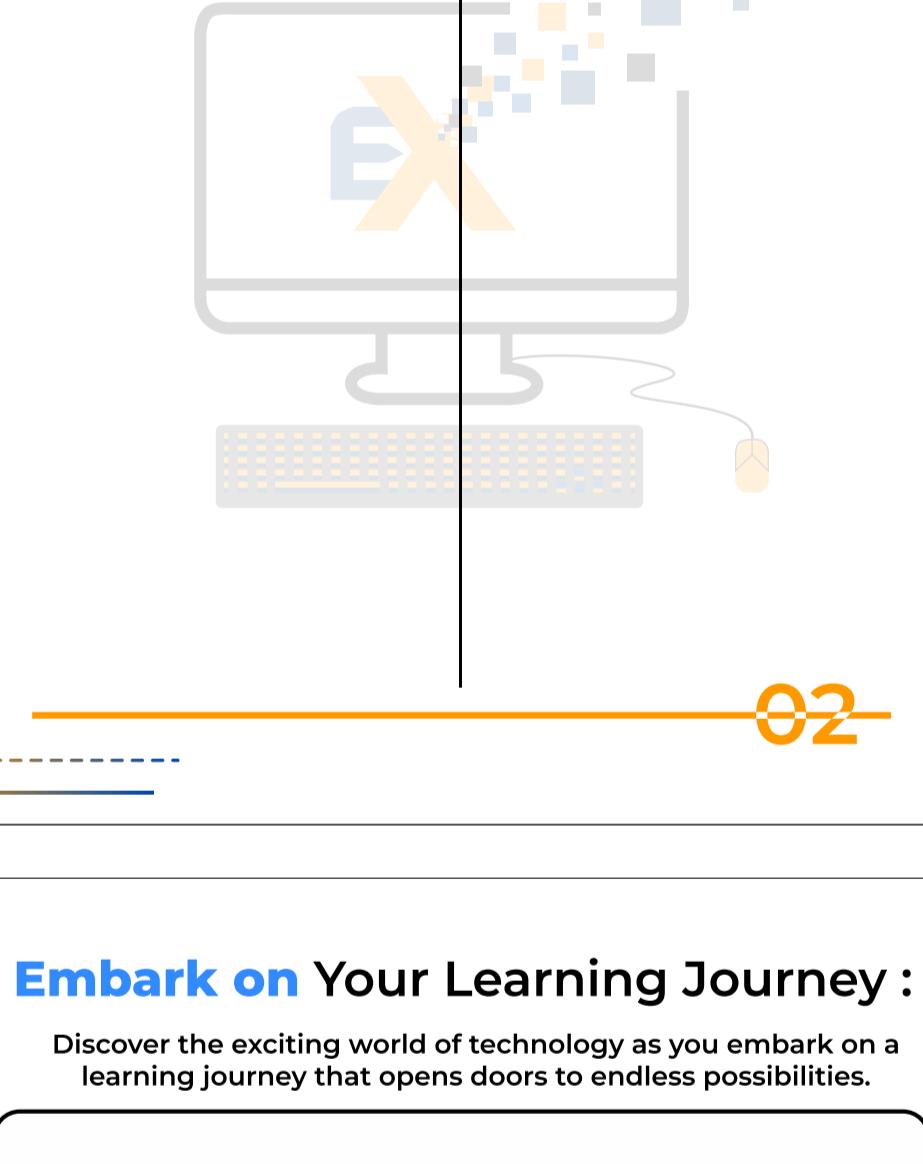
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PL/SQL Syllabus

COURSE CONTENTS

- Introduction and Basics Introduction to PL/SQL
- PL/SQL Data Types and Control Structures Data Types
- Cursors and Exceptions Cursors
- Procedures and Functions Stored Procedures
- Packages and Triggers Packages
- Advanced PL/SQL Concepts Dynamic SQL
- Performance Tuning and Best Practices Performance Tuning
- Project Implementation Project Planning



PL/SQL

Introduction and Basics Introduction to PL/SQL

- What is PL/SQL?
- Benefits Of PL/SQL
- PL/SQL Block Structure
- Basic Syntax and Examplesvv
- PL/SQL Environment PL/SQL in SQL*Plus and Oracle
- SQL Developer
- Writing and executing basic PL/SQL blocks

PL/SQL Data Types and Control Structures

Data Types

- Scalar Types: NUMBER, VARCHAR2, DATE, BOOLEAN
- Composite Types: RECORD, TABLE, VARRAY
- Control Structures
- Conditional Statements: IF, CASE
- Loops: FOR, WHILE, LOOP

Cursors and ExceptionsCursors

- Implicit And Explicit Cursors
- Cursor Attributes
- FOR Loops with Cursors
- Exception Handling
- Predefined Exceptions
- User-Defined Exceptions
- RAISE_APPLICATION_ERROR

Procedures and Functions Stored

Procedures

- Creating And Executing Procedures
- Parameters: IN, OUT, IN OUT
- Functions
- Creating and Executing Functions
- Function vs. Procedure

Packages and Triggers Packages

- Creating Packages
- Package Specification And Body
- Advantages of Packages
- Triggers
- Creating Triggers
- BEFORE And AFTER Triggers
- Row and Statement Triggers

Advanced PL/SQL Concepts Dynamic SQL

- EXECUTE IMMEDIATE
- DBMS_SQL Package
- Collections
- Nested Tables
- VARRAYS
- Associative Arrays
- Bulk Operations
- BULK COLLECT FORALL

Performance Tuning and Best Practices

Performance Tuning

- Identifying Performance Issues
- PL/SQL Optimization Techniques
- Profiling and Debugging
- Best Practices
- Writing Efficient PL/SQL Code

Error Handling Strategies

Code Review and Refactoring

Project Implementation & Project Planning

- Project Overview And Requirements Gathering
- Database Design And PL/SQL Architecture
- Project Development
- Writing PL/SQL Code for the Project
- Implementing Procedures, Functions, and Triggers
- Project Testing And Deployment
- Testing and Debugging
- Deployment Strategies
- Project Documentation and Presentation

Experienced Faculty

Ashutosh Dev-Ops Engineer

Sujit Python Developer

Pravin AWS Engineer

Sourav Java Developer

Mahesh Java Developer

Vishakha SQL Developer

Rajkumar Java Developer

Shweta React-JS- Developer

Ganesh Java Developer

Harshada Java Developer

Anjali Java Developer

Shradha Java Developer

Akshay Java Developer

Omkar Java Developer

Shreya Java Developer

Swati Java Developer

Monika Java Developer

Shivani Java Developer

Neetu Java Developer

Shweta Java Developer