

Instructor Notes:



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Instructor Notes:

Course Goals and Non Goals



Course Goals

- To understand RDBMS Methodology.
- To code PL/SQL Blocks for Implementing business rules.
- To create Stored Subprograms using Procedures and Functions.
- To implement Business Rule using Constraints.

Course Non Goals

- Object Oriented programming concepts (ORDBMS) are not covered as a part of this course.

Instructor Notes:

Pre-requisites



Require a fair proficiency level in Relational Database Concepts.


Require good proficiency in DBMS SQL

Instructor Notes:

Intended Audience

Software Programmers

Software Analysts



Presentation Title | Author | Date

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Instructor Notes:

Day Wise Schedule



Day 1

- Lesson 1: PL/SQL Basics
- Lesson 2: Exception Handling
- Lesson 3: Procedures and Functions
- Lesson 4: Triggers

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Lesson 1: PL/SQL Basics

- 1.1: Introduction to PL/SQL
- 1.2: PL/SQL Block Structure
- 1.3: Handling Variables in PL/SQL
- 1.4: Scope and Visibility of Variables
- 1.5: SQL in PL/SQL
- 1.6: Programmatic Constructs

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Lesson 2 Exception Handling

- 2.1: Error Handling (Exception Handling)
- 2.2: Predefined Exception
- 2.3: User Defined Exceptions
- 2.4: OTHERS Exception Handler

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Lesson 3: Procedures, Functions, and Packages

- 3.1: Subprograms in PL/SQL
- 3.2: Anonymous Blocks versus Stored Subprograms
- 3.3: Procedures
- 3.4: Functions

➤ Lesson 4: Database Triggers

- 4.1: Concept of Database Triggers
- 4.2: Types of Triggers
- 4.3: Disabling and Dropping Triggers
- 4.4: Restriction on Triggers
- 4.5: Order of Trigger firing
- 4.6: Using :Old and :New values,
- 4.7: WHEN clause,
- 4.8 Examples on Triggers

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References

Oracle PL/SQL Programming, Third Edition; by Steven Feuerstein

Oracle 9i PL/SQL: A Developer's Guide

Oracle9i PL/SQL Programming; by Scott Urman

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Next Step Courses (if applicable)



Data Warehousing Concepts

Reporting / ETL tools

Database Administration / Database Performance Tuning

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Other Parallel Technology Areas



Microsoft SQL Server

IBM DB2