

Oracle Basics (PL/SQL) For JEE Abridged

Lesson 00:



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Document History

Date	Course Version No.	Software Version No.	Developer / SME	Change Record Remarks
13-Nov-2008	1.0	Oracle9i	Rajita Dhumal	Content Creation.
28-Nov-2008	1.1	Oracle9i	CLS team	Review.
14-Jan-2010	1.2	Oracle9i	Anu Mitra,	Review
14-Jan-2010	1.2	Oracle9i	Rajita Dhumal, CLS Team	Incorporating Review Comments
16-May-2011	2.0	Oracle 9i	Anu Mitra	Integration Refinements
17-May-2013	2.1	Oracle 9i	Hareshkumar Chandiramani	Courseware Refinements
7-July-2016	2.2	Oracle 9i	Kavita Arora	Integration Refinements

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.



Pre-requisites

- Require a fair proficiency level in Relational Database Concepts.
- Require good proficiency in DBMS SQL

Intended Audience

- Software Programmers
- Software Analysts



Day Wise Schedule

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

Table of Contents

- 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

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



Next Step Courses (if applicable)

- Data Warehousing Concepts
- Reporting / ETL tools
- Database Administration / Database Performance Tuning



Other Parallel Technology Areas

- Microsoft SQL Server
- IBM DB2