


Oracle Basics (PL/SQL)

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-May-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: Introduction to Cursors
- Day 2
  - Lesson 3: Exception Handling
  - Lesson 4: Procedures and Functions

### 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

### Table of Contents

- Lesson 2: Introduction to Cursors
  - 2.1: Introduction to Cursors
  - 2.2: Implicit Cursors
  - 2.3: Explicit Cursors
  - 2.4: Cursor Attributes
  - 2.5: Processing Implicit Cursors and Explicit Cursors
- Lesson 3: Exception Handling
  - 3.1: Error Handling (Exception Handling)
  - 3.2: Predefined Exception
  - 3.3: User Defined Exceptions
  - 3.4: OTHERS Exception Handler



### Table of Contents

- Lesson 4: Procedures, Functions, and Packages
  - 4.1: Subprograms in PL/SQL
  - 4.2: Anonymous Blocks versus Stored Subprograms
  - 4.3: Procedures
  - 4.4: Functions

### 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