

Oracle Basics

Lesson 00:

DBMS SQL

Document History

Date	Course	Software Version	Developer / SME	Change Record Remarks
	Version No.	No.		
13-Nov-08	1	9i	Rajita Dhumal	Content Creation
14-Nov-08	1.1	9i	CLS team	Review
14-Jan-10	1.2	9i	Anu Mitra	Review
14-Jan-10	1.2	9i	Rajita Dhumal, CLS Team	Incorporating Review comments
25-Apr-11	2	9i	Anu Mitra	Integration refinements
17-May-13	2.1	9i	Hareshkumar Chandiramani	Courseware refinements
21-Apr-15	2.2	9i	Kavita Arora	Courseware refinements

Document History

Date	Course	Software Version	Developer / SME	Change Record Remarks
	Version No.	No.		
Apr-2018	2.3	9i	Vaishali Srivastava	Courseware refinements as per Cloud TOC
Oct-2020	2.4	9i	Smita B Kumar	Courseware refinements as per PEGA TOC

Course Goals and Non Goals

Course Goals

- To understand basic DBMS and use SQL commands.

Course Non-Goals

- Nothing Specific.

Pre-requisites

A proficiency level in familiarity with Windows.

Intended Audience

Software Programmers

Software Analysts

Day Wise Schedule

Day 1

- Lesson 1: Introduction to Database
- Lesson 2: Basics of SQL
- Lesson 3: Data Query Language
- Lesson 4: Joins & sub queries

Day 2

- Lesson 5: Database Objects
- Lesson 6: Data Manipulation Language
- Lesson 7: Transaction Control Language

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Lesson 1: Getting Started with Database

- 1.1: Introduction to Database
- 1.2: Characteristics of DBMS
- 1.3: Data models
- 1.4: Relational DBMS
- 1.5: Database Administrator

Lesson 2: Basics of SQL

- 2.1. The SQL Language
- 2.2. Rules for SQL Statements
- 2.3. Standard SQL Statement Groups

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Lesson 3: Data Query Language

- 3.1: The SELECT statement
- 3.2: The WHERE and AS clauses
- 3.3: Mathematical ,Comparison and Logical operators
- 3.4: The DISTINCT clause
- 3.5: The ORDER BY clause
- 3.6: Tips and Tricks in SELECT Statements

Lesson 4: Joins and Sub-queries

- 4.1: Joins
 - 4.1.1: Oracle Proprietary Joins
- 4.2: Types of joins
- 4.3: Sub-query

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Lesson 5: Database Objects

- 5.1: Examples of CREATE TABLE

Lesson 6: Data Manipulation Language

- 6.1: Adding Data
- 6.2: Removing Data
- 6.3: Modifying Data

Lesson 7: Transaction Control Language

- 7.1: Introduction to Transactions
- 7.2: Statement Execution and Transaction Control
- 7.3 Commit Transactions
- 7.4 Rollback Transactions

References

RDBMS Concepts - A Primer

- <http://safari.oreilly.com>

Introduction to Database Systems; by C.J.Date

Relational Database Theory; by Atzeni, De Antonellis

Next Step Courses (if applicable)

Oracle PL/SQL

Other Parallel Technology Areas

MS-Access

SQL Server

DB2