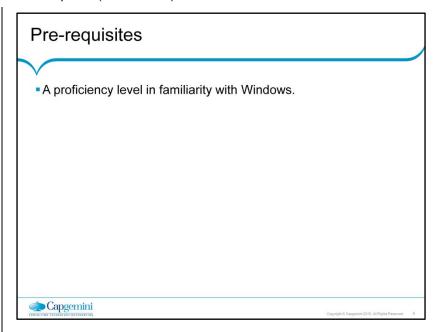
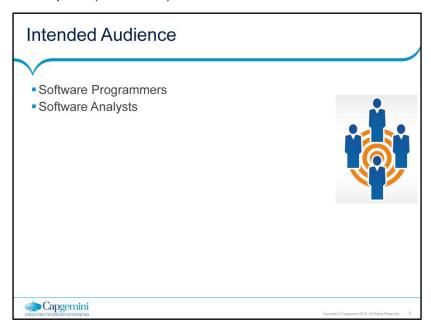


©2016 Capgemini. All rights reserved. The information contained in this document is proprietary and confidential. For Capgemini only.

Date	Course Version No.	Software Version No.	Developer / SME	Change Record Remarks
13-Nov-2008	1.0		Rajita Dhumal	Content Creation
14-Nov-2008	1.1		CLS team	Review
14-Jan-2010	1.2		Anu Mitra	Review
14-Jan-2010	1.2		Rajita Dhumal, CLS Team	Incorporating Review comments
25-Apr-2011	2.0		Anu Mitra	Integration refinements
18-Feb-2014	2.1		Sathiabama Ranganathan	Course Refinements

Course Goals • Course Goals • To understand basic DBMS, and use SQL commands. • Course Non Goals • Nothing Specific.





Day Wise Schedule

- Day 1
 - Lesson 1: Introduction to Database
 - Lesson 2: Basics of SQL
 - Lesson 3: Data Query Language
- Day 2
 - Lesson 4: Aggregate (Group) Functions
 - Lesson 5: SQL (Single-row) functions
 - Lesson 6: Joins and Sub-queries (Joins to be covered here)



Day Wise Schedule

- Day 3
 - Lesson 6: Joins and Sub-queries (Sub-queries to be covered here)
 - Lesson 7: Introduction to Data Modeling, ER Modeling and Normalization
 - Lesson 8: Database Objects (Table, Index, Sequence, Synonym to be covered here)
- Day 4
 - Lesson 8: Database Objects (Views to be covered here)
 - Lesson 9: Set Operators
 - Lesson 10: Data Manipulation Language
 - Lesson 11: Transaction Control Language
 - Lesson 12: Data Control Language



- 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



- Lesson 2: Basics of SQL (contd)
 - 2.4: Logging to Oracle Server
- Lesson 3: Data Query Language
 - 3.1: The SELECT statement
 - 3.2: The WHERE clause
 - 3.3: Comparison, Mathematical, and Logical operators
 - 3.4: The DISTINCT clause
 - 3.5: The ORDER BY clause
 - 3.6: Tips and Tricks in SELECT Statements



- Lesson 4: Aggregate (Group) functions
 - 4.1: The Group function
 - 4.2: GROUP BY & HAVING clause
 - 4.3: Examples of GROUP BY and HAVING clauses
 - 4.4: Tips and Tricks
- Lesson 5: SQL (Single-row) functions
 - 5.1: SQL functions
 - 5.2: Number functions
 - 5.3: Character functions



- Lesson 5: SQL (Single-row) functions (contd.)
 - 5.4: Date functions
 - 5.5: Conversion functions
 - 5.6: Miscellaneous functions
 - 5.7: Tips and Tricks
- Lesson 6: Joins and Sub-queries
 - 6.1: Joins
 - 6.1.1: Oracle Proprietary Joins
 - 6.1.2: SQL: 1999 Compliant Joins



- Lesson 6: Joins and Sub-queries (contd.)
 - 6.6: Sub-queries
 - 6.7: Co-related sub-query
 - 6.8: Exists / Not Exists Operator
 - 6.9: CONNECT BY and START WITH clauses
 - 6.10: Tips and Tricks
- Lesson 7: Set Operators
 - 7.1: Set Operation
 - 7.2: The UNION Operator
 - 7.3: The INTERSECT Operator
 - 7.4: The MINUS Operator



- Lesson 8: Database Objects
 - 8.1: Basic Data Types
- 8.2: Data Integrity
- 8.3: Examples of CREATE TABLE
- 8.4: Examples of ALTER TABLE
- 8.5: Database Objects
- 8.6: Index
- 8.7: Synonym
- 8.8: Sequence
- 8.9: View
- 8.10: Deleting Database Objects



- Lesson 9: Data Manipulation Language
 - 9.1: Adding Data
 - 9.2: Removing Data
 - 9.3: Modifying Data
- Lesson 10: Transaction Control Language
 - 10.1: Introduction to Transactions
 - 10.2: Statement Execution and Transaction Control
- Lesson 11: Transaction Control Language
 - 11.1: Object Privileges
 - 11.2: Grant and Revoke Statements



References

- RDBMS Concepts A Primer
 - http://safari.oreilly.com
- •Introduction to Database Systems; by C.J.Date
- Relational Database Theory; by Atzeni, De Antonell





