

Oracle Database 12c: Analytic SQL for Data Warehousing

Course information

Days : 2

Total lessons : 8

Suggested Prerequisites :

- Oracle Database SQL Fundamentals I

Training includes :

- Experienced trainer(s)
- Pre-test and Post-test
- Practices and solutions

Public price :

- 10,000 baht(THB) per person

In-house price :

- 30,000 baht(THB) : Economic Class : 1 – 5 people
- 39,000 baht(THB) : Small Class : 6 - 10 people
- 48,000 baht(THB) : Medium Class : 11 - 15 people

All prices exclude VAT 7 %

Course details

Day 1

Lesson 1 : Introduction

Lesson 2 : Grouping and Aggregating Data Using SQL

Lesson 3 : Hierarchical Retrieval

Lesson 4 : Working with Regular Expressions

Day 2

Lesson 5 : Analyzing and Reporting Data Using SQL

Lesson 6 : Performing Pivoting and Unpivoting Operations

Lesson 7 : Pattern Matching using SQL

Lesson 8 : Modeling Data Using SQL

Lesson details

Lesson 1 : Introduction

- Course Objectives, Course Agenda and Class Account Information
- Describe the Schemas and Appendices used in the Lesson
- Overview of SQL*Plus Environment
- Overview of SQL Developer
- Overview of Analytic SQL
- Oracle Database SQL and Data Warehousing Documentation

Lesson 2 : Grouping and Aggregating Data Using SQL

- Generating Reports by Grouping Related Data
- Review of Group Functions
- Reviewing GROUP BY and HAVING Clause
- Using the ROLLUP and CUBE Operators
- Using the GROUPING Function
- Working with GROUPING SET Operators and Composite Columns
- Using Concatenated Groupings with Example



Lesson 3 : Hierarchical Retrieval

- Using Hierarchical Queries
- Sample Data from the EMPLOYEES Table
- Natural Tree Structure
- Hierarchical Queries: Syntax
- Walking the Tree: Specifying the Starting Point
- Walking the Tree: Specifying the Direction of the Query
- Using the WITH Clause Hierarchical Query Example: Using the CONNECT BY Clause
-

Lesson 4 : Working with Regular Expressions

- Introducing Regular Expressions
- Using the Regular Expressions Functions and Conditions in SQL and PL/SQL
- Introducing Metacharacters
- Using Metacharacters with Regular Expressions
- Regular Expressions Functions and Conditions: Syntax
- Performing a Basic Search Using the REGEXP_LIKE Condition
- Finding Patterns Using the REGEXP_INSTR Function
- Extracting Substrings Using the REGEXP_SUBSTR Function

Lesson 5 : Analyzing and Reporting Data Using SQL

- Overview of SQL for Analysis and Reporting Functions
- Using Analytic Functions
- Using the Ranking Functions
- Using Reporting Functions
-

Lesson 6 : Performing Pivoting and Unpivoting Operations

- Performing Pivoting Operations
- Using the PIVOT and UNPIVOT Clauses
- Pivoting on the QUARTER Column: Conceptual Example
- Performing Unpivoting Operations
- Using the UNPIVOT Clause Columns in an UNPIVOT Operation
- Creating a New Pivot Table: Example
-

Lesson 7 : Pattern Matching using SQL

- Row Pattern Navigation Operations
- Handling Empty Matches or Unmatched Rows
- Excluding Portions of the Pattern from the Output
- Expressing All Permutations
- Rules and Restrictions in Pattern Matching
- Examples of Pattern Matching

Lesson 8 : Modeling Data Using SQL

- Using the MODEL clause
- Demonstrating Cell and Range References
- Using the CV Function
- Using FOR Construct with IN List Operator, incremental values and Subqueries
- Using Analytic Functions in the SQL MODEL Clause
- Distinguishing Missing Cells from NULLs
- Using the UPDATE, UPSERT and UPSERT ALL Options
- Reference Models

For more information please contact :

VT Technology Co.,Ltd.

Tel +66 0 2594 5185

contact@vttech.co.th

To see other available Oracle courses

Please go to www.vttech.co.th/course.html



www.vttech.co.th