

Oracle Database 11gR2 SQL Advanced

Course information

Days : 4

Total lessons : 11

Suggested Prerequisites :

- Familiarity with data processing concepts and techniques

Training includes :

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

Public price :

- 18,000 baht(THB) : 1 person

All prices exclude VAT 7 %

Course details

Day 1

Introduction

Lesson 1 : Analyzing and Reporting Data Using SQL

Lesson 2 : Grouping and Aggregating Data Using SQL

Lesson 3 : Hierarchical Retrieval

Lesson 4 : Analyzing Data Using Regular Expressions

Day 2

Lesson 5 : Perform Pivoting and Unpivoting Operations

Lesson 6 : MERGE , UPSERT and UPSERT ALL command

Lesson 7 : TOP N query

Day 3

Lesson 8 : How to determine SQL : good VS bad or small VS big ?

Lesson 9 : Which effects with COST of SQL statement ?

Day 4

Lesson 10 : DML and DDL Effects with COSTs

Lesson 11 : How to reduce COSTS ?

Lesson details

Lesson 1 : Analyzing and Reporting Data Using SQL

- Use SQL for analysis and reporting
- List the SQL for analysis and reporting functions
- Use some of the rankings, percentiles, and LAG SQL analytic functions
- Write cross-tabulation queries to pivot (rotate) column values into new columns
- Write cross-tabulation queries to unpivot columns into column values

Lesson 2 : Grouping and Aggregating Data Using SQL

- Use the ROLLUP operator to produce subtotal values
- Use the CUBE operator to produce cross-tabulation values
- Use the GROUPING function to identify the row values created by ROLLUP or CUBE
- Use GROUPING SETS to produce a single result set
- Work with composite columns
- Use concatenated groupings to generate useful combinations of groupings

Lesson 3 : Hierarchical Retrieval

- Interpret the concept of a hierarchical query
- Create a tree-structured report



- Format hierarchical data
- Exclude branches from the tree structure

Lesson 4 : Analyzing Data Using Regular Expressions

- Use regular expressions to search for, match, and replace strings

Lesson 5 : Perform Pivoting and Unpivoting Operations

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

Lesson 6 : MERGE , UPSERT and UPSERT ALL command

- MERGE command
- UPSERT command
- UPSERT ALL command

Lesson 7 : TOP N query

- FETCH FIRST ROW
- FETCH NEXT ROW

Lesson 8 : How to determine SQL : good VS bad or small VS big

- Introduction about COST in SQL command
- What is an Execution Plan ?

Lesson 9 : Which effects with COST of SQL statement ?

- Number of rows in table
- Row sizes
- Density of rows in blocks(alter table move,shrink space,shrink space compact)
- Access path (Full table scan, Index scan, Partition scan, Materialize view)
- Hint (parallel ,all_rows ,first_row)
- Statistic (dynamic sampling, table stats, index stats)

Lesson 10 : DML and DDL Effects with COSTs

- INSERT ,UPDATE , DELETE
- TRUNCATE

Lesson 11 : How to reduce COSTs

- Defragmenting Tables
- Creating Indexes
- Defragmenting Indexes
- Update Statistics
- Other features : SQL outline, SQL Profile

For more information please contact :

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To see other available Oracle courses

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

