Oracle Database 11g Advanced PL/SQL

Course information
Days : 3
Total lessons : 13
Suggested Prerequisites :
- Oracle Database 11g: Develop PL/SQL Program Units
- Previous programming experience

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

Public price :
- 17,000 baht(THB) : 1 person

In-house price :
- 51,000 baht(THB) : Economic Class : 1 – 5 people
- 69,000 baht(THB) : Small Class : 6 - 10 people
- 81,000 baht(THB) : Medium Class : 11 – 15 people

All prices exclude VAT 7 %

Course details
Day 1
Lesson 1: Introduction
Lesson 2: PL/SQL Review
Lesson 3: Designing PL/SQL Code
Lesson 4: Working with Collections
Day 2
Lesson 4: Working with Collections
Lesson 5: Using Advanced Interface Methods
Lesson 6: Implementing Fine-Grained Access Control for VPD
Lesson 7: Manipulating Large Objects
Lesson 8: Administering Secure File LOBs
Lesson 9: Performance and Tuning
Day 3
Lesson 10: Improving Performance with Caching
Lesson 11: Analyzing PL/SQL Code
Lesson 12: Profiling and Tracing PL/SQL Code
Lesson 13: Safeguarding Your Code Against SQL Injection Attacks

Lesson details
Lesson 1: Introduction
- Previewing the course agenda
- Describing the development environments
- Using SQL Developer
- Using SQL*Plus
- Identifying the tables, data, and tools used in this course

Lesson 2 : PL/SQL Review
- Describe PL/SQL basics
- List restrictions on calling functions from SQL expressions
- Identify how explicit cursors are processed
- Handle exceptions
- Use the raise_application_error procedure
- Manage dependencies

- Use Oracle-supplied packages

Lesson 3: Designing PL/SQL Code
- Identify guidelines for cursor design
- Use cursor variables
- Create subtypes based on the existing types for an application

Lesson 4: Working with Collections
- Create collections
  - Nested table, varray
  - Associative arrays/PLSQL tables
- Integer indexed
- String indexed
- Use collections methods
- Manipulate collections
- Distinguish between the different types of collections and when to use them

Lesson 5: Using Advanced Interface Methods
- Execute external C programs from PL/SQL
- Execute Java programs from PL/SQL

Lesson 6: Implementing Fine-Grained Access Control for VPD
- Describe the process of fine-grained access control
- Implement and test fine-grained access control

Lesson 7: Manipulating Large Objects
- Compare and contrast LONG and large object (LOB) data types
- Create and maintain LOB data types
- Differentiate between internal and external LOBs
- Use the DBMS_LOB PL/SQL package
- Describe the use of temporary LOBs

Lesson 8: Administering SecureFile LOBs
- Describe SecureFile LOB features
- Enable SecureFile LOB deduplication, compression, and encryption
- Migrate BasicFile LOBs to the SecureFile LOB format
- Analyze the performance of LOBs

Lesson 9: Performance and Tuning
- Understand and influence the compiler
- Tune PL/SQL code
- Enable intraunit inlining

Lesson 10: Improving Performance with Caching
- Improve memory usage by caching SQL result sets
- Write queries that use the result cache hint • Use the DBMS_RESULT_CACHE package
- Set up PL/SQL functions to use PL/SQL result caching

Lesson 11: Analyzing PL/SQL Code
- Use the supplied packages and dictionary views to find coding information
- Determine identifier types and usages with PL/Scope
- Use the DBMS_METADATA package to obtain metadata from the data dictionary as XML or creation DDL that can be used to re-create the objects

Lesson 12: Profiling and Tracing PL/SQL Code

- Trace PL/SQL program execution
- Profile PL/SQL applications

Lesson 13: Safeguarding Your Code Against SQL Injection Attacks
- Describe SQL injections
- Reduce attack surfaces
- Use DBMS_ASSERT
    - Design immune code
    - Test code for SQL injection flaws

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