Oracle Database 12c/18c/19c Advanced PL/SQL

Course information

Days : 2
Total lessons : 10
Suggested Prerequisites :
- Oracle Database : Develop PL/SQL Program Units
- Previous programming experience

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

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 SecureFile LOBs
Lesson 9: Performance and Tuning

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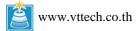
Lesson 2 : PL/SQL Review
- Describe PL/SQL basics
- List restrictions on calling functions from SQL expressions
- Identify how explicit cursors are processed
- Handle exceptions
- Use the raise_application_error procedure
- Manage dependencies
- Use Oracle-supplied packages

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

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