OD-12cR2-AP: Oracle Database 12c R2: Advanced PL/SQL

Course Code: OD-12cR2-AP
Duration: 3 days
Instructor-led Training (ILT) | Virtual Instructor-led Training (VILT)

OVERVIEW

In the Oracle Database 12c R2: Advanced PL/SQL course, students learn how to use the advanced features of PL/SQL in order to design and tune PL/SQL to interface with the database and integrate with the other applications in the most efficient manner. They learn to write powerful PL/SQL programs using external C/Java routines, fine-grained access packages, cursors, extended interfaces and collections.

Learn To:

- Apply PL/SQL designing best practices.
- Create PL/SQL applications that use collections.
- Work with JSON data in the database.
- Implement a virtual private database with fine-grained access control.
- Write code to interface with external C and Java applications.
- Write code to interface with large objects and use SecureFile LOBs.
- Write and tune PL/SQL code effectively to maximize performance.

SKILLS COVERED

Upon completing this course, the learner will be able to meet these overall objectives:

- Design PL/SQL packages and program units that execute efficiently
- Write code to interface with external applications and the operating system
- Create PL/SQL applications that use collections
- Learn to work with JSON data in relational database
- Write and tune PL/SQL code effectively to maximize performance
- Implement a virtual private database with fine-grained access control
- Write code to interface with large objects and use SecureFile LOBs

WHO SHOULD ATTEND?

- Application Developers
- Database Administrators
- Support Engineer
- Technical Consultant

PREREQUISITES

- Basic Knowledge of SQL, PL/SQL
- Knowledge of PL/SQL Program Units
- Familiarity with programming languages
- Oracle Database: SQL Workshop I Ed 2
- Oracle Database: Develop PL/SQL Program Units Ed 2

MODULES

Module 1: Introduction

Module 2: Oracle Database Exadata Express Cloud Service

Module 3: Overview of Collections

Module 4: Using Collections in PL/SQL

Module 5: Manipulating Large Objects

Module 6: Working with JSON Data

Module 7: Using Advanced Interface Methods

Module 8: Performance and Tuning

Module 9: Improving Performance with Caching

Module 10: Analyzing PL/SQL Code

Module 11: Profiling and Tracing PL/SQL Code

Module 12: Securing application through PL/SQL

Module 13: Safeguarding Your Code Against SQL Injection Attacks

Module 14: Security Features implemented through PL/SQL

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