Oracle Database 19c: Advance PL/SQL

Duration: 3 Days

Course Description:

In this course, you will learn to handle complex data. You learn about collections, which enable you to work with a logical group of homogenous data. You will also learn to manage large objects and JSON data in the database. Apart from handling complex data, you will learn how to interface database with other programming languages such as C and Java.

Further, you will be introduced to utilities such as PL/Scope and hierarchical profiler to analyze, trace, and profile PL/SQL code. These functions help you in improving the performance of the application. In addition, you will be introduced to various security mechanisms that can be used to secure applications.

Course Outlines:

Introduction
- Introduction

Working with Exadata Express Cloud Service
- Working with Exadata Express Cloud Service

Overview of Collections
- Overview of Collections
- Practice 3-1: Analyzing Collections

Using Collections
- Using Collections
- Practice 4-1: Using Collections

Handling Large Objects
- Handling Large Objects
- Practice 5-1: Working with LOBs

JSON Data in Database
- JSON Data in Database
- Practice 6-1: JSON Data in Tables
- Practice 6-2: JSON Data in PL/SQL Blocks

Advanced Interface Methods
- Advanced Interface Methods
- Practice 7-1: Using Advanced Interface Methods

Performance and Tuning
- Performance and Tuning
- Practice 8-1: Performance and Tuning (Part 1)
- Practice 8-1: Performance and Tuning (Part 2)

Improving Performance with Caching
- Improving Performance with Caching
- Practice 9-1: Improving Performance with Caching

Analyzing PL/SQL Code
- Analyzing PL/SQL Code
- Practice 10-1: Analyzing PL/SQL Code

Profiling and Tracing PL/SQL Code
- Profiling and Tracing PL/SQL Code
- Practice 11-1: Profiling and Tracing PL/SQL Code

Securing Applications through PL/SQL
- Securing Applications through PL/SQL
- Practice 12-1: Implementing Fine-Grained Access Control for VPD

Safeguarding Your Code against SQL Injection Attacks
- Safeguarding Your Code against SQL Injection Attacks
- Practice 13-1: Safeguarding Your Code against SQL Injection Attacks

Advanced Security Mechanisms
- Advanced Security Mechanisms