Oracle Database 11g: Advanced PL/SQL

CODICE	DURATA	PREZZO	LINGUA	MODALITÀ
D52601GC20	3 Giorni	1.800,00€ (iva escl.)	italiano	Virtual Classroom Corso in aula

SCHEDULAZIONE

- A Richiesta

PREREQUISITI

Il corso è rivolto a:

- Sviluppatori di applicazioni
- Amministratore di database
- Sviluppatore PL/SQL

Conoscenze richieste:

- Knowledge of SQL
- PL/SQL Programming experience

Recommended Related Training Courses:

Oracle Enterprise Manager 11g: Grid Control Essentials

This Enterprise Manager 11g training teaches you how to implement and use Grid Control to manage your enterprise-computing environment. Learn to install & configure the Grid Control framework and use out-of-box management capabilities.

Using Java - for PL/SQL and Database Developers

This Java for PL/SQL and Developers training teaches you to access Oracle Database using JDBC , UCP, Java stored procedures and SQLJ technologies. Learn to create, load, resolve and publish Java classes in the Database and more.

Oracle Database 11g: SQL and PL/SQL New Features

This Database 11g SQL and PL/SQL training introduces you to the SQL Developer tool. Learn various enhancements in language functionality, triggers, language performance and language usability, along with data warehousing adjustments.

Oracle SQL Tuning for Developers Workshop NEW

This SQL Tuning for Developers training assists database developers, DBAs and SQL developers to identify and tune inefficient SQL statements. You'll learn to interpret execution plans and the different ways that data can be accessed.

OBIETTIVI

In this Oracle Database 11G Advanced PL/SQL training, expert Oracle University instructors will help you explore the advanced features of PL/SQL to design and tune PL/SQL. You'll learn how it interfaces with the database and other applications in the most efficient manner.

Learn To:

- PL/SQL designing best practices.
- Create PL/SQL applications that use collections.
- 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.

Benefits to You

- Extend the functionality of the SQL language with PL/SQL language to write application code. This will help your organization realize the full benefit of utilizing Oracle best practices.
- Virtual Private Database: You'll also be introduced to Virtual Private Database (VPD) to implement security policies. Learn techniques and tools to strengthen applications against SQL injection attacks. Explore programming efficiency, use of external C and Java routines, PL/SQL server pages and fine-grained access.
- 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
- 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

CONTENUTI

Introduction
Course objectives
Course agenda
Tables and data used for this course
Overview of the development environments: SQL Developer, SQL Plus
PL/SQL Programming Concepts Review

Identify PL/SQL block structure
Create procedures
Create functions
List restrictions and guidelines on calling functions from SQL expressions
Create packages
Review of implicit and explicit cursors
List exception syntax
Identify the Oracle supplied packages
Designing PL/SQL Code

Describe the predefined data types
Create subtypes based on existing types for an application
List the different guidelines for cursor design
Cursor variables
Using Collections

Overview of collections
Use Associative arrays
Use Nested tables
Use VARRAYs
Compare nested tables and VARRAYs
Write PL/SQL programs that use collections
Use Collections effectively
Manipulating Large Objects

Describe a LOB object
Use BFILEs
Use DBMS_LOB.READ and DBMS_LOB.WRITE to manipulate LOBs
Create a temporary LOB programmatically with the DBMS_LOB package
Introduction to SecureFile LOBs

Use SecureFile LOBs to store documents
Convert BasicFile LOBs to SecureFile LOB format
Enable reduplication and compression
Using Advanced Interface Methods

Calling External Procedures from PL/SQL
Benefits of External Procedures
C advanced interface methods
Java advanced interface methods
Performance and Tuning

Understand and influence the compiler
Tune PL/SQL code
Enable intra unit inlining
Identify and tune memory issues
Recognize network issues
Improving Performance with Caching

Describe result caching
Use SQL query result cache
PL/SQL function cache
Review PL/SQL function cache considerations
Analyzing PL/SQL Code

Finding Coding Information
Using DBMS_DESCRIBE
Using ALL_ARGUMENTS
Using DBMS_UTILITY.FORMAT_CALL_STACK
Collecting PL/Scope Data
The USER/ALL/DBA_IDENTIFIERS Catalog View
DBMS_METADATA Package
Profiling and Tracing PL/SQL Code

Tracing PL/SQL Execution
Tracing PL/SQL: Steps
Implementing VPD with Fine-Grained Access Control

Understand how fine-grained access control works overall
Describe the features of fine-grained access control
Describe an application context
Create an application context
Set an application context

List the DBMS_RLS procedures
Implement a policy
Query the dictionary views holding information on fine-grained access
Safeguarding Your Code Against SQL Injection Attacks

SQL Injection Overview
Reducing the Attack Surface
Avoiding Dynamic SQL
Using Bind Arguments
Filtering Input with DBMS_ASSERT
Designing Code Immune to SQL Injections
Testing Code for SQL Injection Flaws

Prezzi e corsi potrebbero subire variazioni; si consiglia di verificare sul sito www.novanext.it/training.