Oracle Database: Develop PL/SQL Program Units Ed 2

CODICE	DURATA	PREZZO	LINGUA	MODALITÀ
D80170GC10	3 Giorni	1.800,00€ (iva escl.)	Italiano	Virtual Classroom Corso in aula

SCHEDULAZIONE

- A Richiesta

PREREQUISITI

Audience:

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

Prerequisiti obbligatori:

- Basic Knowledge of PL/SQL
- Familiarity with programming languages
- Oracle Database: Introduction to SQL NEW
- Oracle Database: PL/SQL Fundamentals NEW

Prerequisiti suggeriti :

- Oracle SQL Tuning for Developers Workshop

Recommended Related Training Courses:

- 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: SQL Tuning for Developers NEW

In the Oracle Database: SQL Tuning for Developers course, you learn about Oracle SQL tuning and how to apply tuning techniques to your SQL code. Learn the different ways in which data can be accessed efficiently.

OBIETTIVI

- Create, use, and debug stored procedures and functions
- Design and use PL/SQL packages to group and contain related constructs
- Create overloaded package subprograms for more flexibility
- Use the Oracle supplied PL/SQL packages to generate screen output, file output, and mail output
- Write dynamic SQL for more coding flexibility
- Design PL/SQL code for predefined data types, local subprograms, additional programs and standardized constants and exceptions
- Use the compiler warnings infrastructure
- Use conditional PL/SQL compilation and obfuscate (hide) code
- Create triggers to solve business challenges
- Manage dependencies between PL/SQL subprograms

CONTENUTI

This Oracle Database: Develop PL/SQL Program Units course is designed for developers with basic PL/SQL and SQL language skills. You will learn to develop, execute and manage PL/SQL stored program units, which include: procedures, functions, packages and database triggers.

Learn To:

· Create, and execute stored procedures and functions.
· Design and use PL/SQL packages.
· Create overloaded package subprograms for more flexibility.
· Utilize Oracle supplied packages in application development.
· Create triggers to solve business challenges.
· Build and execute SQL statements dynamically.
· Manage PL/SQL subprograms and triggers.
· Understand and influence the PL/SQL compiler.
· Manage dependencies.

Benefits to You

Ensure fast, reliable, secure and easy to manage performance. Optimize database workloads, lower IT costs and deliver a higher quality of service by enabling consolidation onto database clouds.

Learn Dynamic SQL, Design Considerations and More

This course will also teach you how to use Dynamic SQL through instruction, as well as hands-on exercises. Expert Oracle instructors will also help you understand design considerations when coding using PL/SQL.

Using Oracle SQL Developer

In addition, you'll use Oracle SQL Developer as the main environment tool to develop these program units. SQL*Plus is introduced as optional tools. Demonstrations and hands-on practice reinforce the fundamental concepts you've learned throughout the course.

Introduction

· Course Objectives, Course Agenda and Appendixes Used in this Course

· Describe the full Human Resources (HR) Schema

· Review the online Oracle Database 12c SQL and PL/SQL documentation and the additional available resources

· List the PL/SQL development environments Available in this course

· Use the SQL Worksheet

· Execute SQL Statements

· Work With Script Files

· Create and Execute Anonymous Blocks

Creating Stored Procedures

· Describe PL/SQL blocks and subprograms

· Describe the uses and benefits of procedures

· Create, call, and remove procedures

· Use formal and actual parameters

· Identify the available parameter-passing modes

· Pass parameters using the positional, named, or combination techniques

· Handle exceptions in procedures

· View the procedure information

Creating Functions and Debugging Subprograms

· Creating Stored Functions

· The Difference Between Procedures and Functions

· Developing Functions

· Creating and Executing and Removing Functions

· Identifying the Advantages of Using Stored Functions in SQL Statements

· Using User-Defined Functions in SQL Statements

· Using a PL/SQL Function in the SQL WITH Clause

· Restrictions When Calling Functions from SQL statements

Creating Packages

· Using PL/SQL Packages

· The Components of a PL/SQL Package

· The Visibility of a Package's Components

· Developing a PL/SQL Package

· Creating the Package Specification and Package Body

· Invoking the Package Constructs
· Creating and Using Bodiless Packages
· Removing a Package

Working With Packages
· Overloading Subprograms
· Using Forward Declarations to Solve Illegal Procedure Reference
· Initializing Packages
· Using Package Functions in SQL and Restrictions
· Controlling Side Effects of PL/SQL Subprograms
· Persistent State of Packages
· Persistent State of Package Variables and Cursors
· Using PL/SQL Tables of Records in Packages

Using Oracle-Supplied Packages in Application Development
· Using Oracle-Supplied Packages
· Examples of Some of the Oracle-Supplied Packages
· How Does the DBMS_OUTPUT Package Work?
· Using the UTL_FILE Package to Interact With Operating System Files
· Using the UTL_MAIL Package

Using Dynamic SQL
· The Execution Flow of SQL
· Working With Dynamic SQL
· When Do You Need Dynamic SQL?
· Using Native Dynamic SQL (NDS)
· Declaring Cursor Variables
· Executing a PL/SQL Block Dynamically
· Using Native Dynamic SQL to Compile PL/SQL Code

Design Considerations for PL/SQL Code
· Standardize constants with a constant package
· Standardize exceptions with an exception package
· Write PL/SQL code that uses local subprograms
· Grant Roles to PL/SQL Packages and Standalone Stored Subprograms
· Use the NOCOPY compiler hint to pass parameters by reference
· Use the PARALLEL ENABLE hint for optimization
· Use the AUTONOMOUS TRANSACTION pragma to run independent transactions within a single transactio
· Describe the differences between invoker rights and definer rights
Creating Triggers
· Describe different types of triggers
· Describe database triggers and their use

· Create database triggers
· Describe database trigger firing rules
· Remove database triggers

Creating Compound, DDL, and Event Database Triggers

· Describe compound triggers
· Describe mutating tables
· Create triggers on DDL statements
· Create triggers on system events
· Display information about triggers

Using PL/SQL compiler

· Using the PL/SQL CompilerUsing the Initialization Parameters for PL/SQL Compilation
· Using the PL/SQL Compile Time Warnings
· Viewing the Current Setting of PLSQL_WARNINGS
· Viewing the Compiler Warnings: Using SQL Developer, SQL*Plus, or the Data Dictionary Views
· Guidelines for Using PLSQL_WARNINGS

Managing Dependencies

· Describe dependent and referenced objects
· Track procedural dependencies with dictionary views
· Predict the effect of changing a database object upon stored procedures and functions
· Manage local and remote procedural dependencies

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