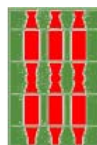




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Formazione

Corso **ORACLE: Programmare con PL/SQL**

Descrizione

In questo corso viene descritto PL/SQL e vengono illustrati i vantaggi derivanti dall'uso di questo potente linguaggio di programmazione. Viene spiegato come creare blocchi di codice PL/SQL che possono essere condivisi tra più form, report e applicazioni per la gestione di dati. e viene spiegato come creare procedure, funzioni, package e trigger di database nonché come utilizzare iSQL*Plus per sviluppare tali program unit. Viene inoltre descritto come gestire program unit PL/SQL e trigger di database, gestire dipendenze, manipolare oggetti LOB (Large Objects) e utilizzare alcuni package forniti con Oracle

Argomenti

Describing PL/SQL

Describing the Use of PL/SQL for the Developer and the Database Administrator

Explaining the Benefits of PL/SQL

PL/SQL program constructs

PL/SQL anonymous block structure

Subprogram block structure

Course objectives and overview

Declaring Variables

Recognizing the Basic PL/SQL Block and Its Sections

Describing the Significance of Variables in PL/SQL

Distinguishing Between PL/SQL and Non-PL/SQL Variables

Declaring Variables and Constants

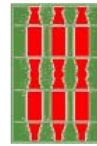
Executing a PL/SQL Block



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Writing Executable Statements

Recognizing the Significance of the Executable Section
Writing Statements Within the Executable Section
Describing the Rules of Nested Blocks
Executing and Testing a PL/SQL Block
Using Coding Conventions

Interacting with the Oracle Server

Writing a Successful SELECT Statement in PL/SQL
Declaring the Data type and Size of a PL/SQL Variable Dynamically
Writing Data Manipulation Language (DML) Statements in PL/SQL
Controlling Transactions in PL/SQL
Determining the Outcome of SQL DML Statements

Writing Control Structures

Identifying the Uses and Types of Control Structures
Constructing an IF Statement
Constructing and Identifying Different Loop Statements
Controlling Block Flow Using Nested Loops and Labels
Using Logic Tables

Working with Composite Data types

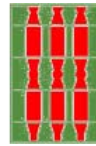
Creating User-Defined PL/SQL Records
Creating a PL/SQL Table
Creating a PL/SQL Table of Records
Differentiating Among Records, Tables, and Tables of Records



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Writing Explicit Cursors

Using a PL/SQL Record Variable
Distinguishing Between the Implicit and Explicit Cursor
Writing a Cursor FOR Loop

Advanced Explicit Cursor Concepts

Writing a Cursor that Uses Parameters
Determining When a FOR UPDATE Clause in a Cursor Is Required
Using a PL/SQL Table Variable
Using a PL/SQL Table of Records

Handling Exceptions

Defining PL/SQL Exceptions
Recognizing Unhandled Exceptions
Listing and Using Different Types of PL/SQL Exception Handlers
Trapping Unanticipated Errors
Describing the Effect of Exception Propagation in Nested Blocks
Customizing PL/SQL Exception Messages

Creating Procedures

Describe the uses of procedures
Create procedures
Create procedures with arguments
Invoke a procedure
Remove a procedure

Creating Functions

Describe the uses of functions
Create a function
Invoke a function
Remove a function
Differentiate between a procedure and a function



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Managing Subprograms

Describe system privilege requirements
Describe object privilege requirements
Query the relevant data dictionary views
Debug subprograms

Creating Packages

Describe packages and list their possible components
Create packages that include public and private subprograms, as well as global and local variables
Invoke objects in a package
Remove packages

More Package Concepts

Write packages that use the overloading feature of PL/SQL
Avoid errors with mutually referential subprograms
Initialize variables with a one-time-only procedure
Specify the purity level of packaged functions
Describe the persistent state of packaged variables, cursors, tables, and records
Query the relevant data dictionary views

Using Oracle-Supplied Packages

Overview of Oracle-supplied packages
View examples of some supplied packages
Write dynamic SQL

Creating Database Triggers

Describe different types of triggers
Describe database triggers and their use
Create database triggers

Describe database trigger firing rules

Drop database triggers



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More Trigger Concepts

Create triggers that fire when certain database actions occur
List some of the limitations of database triggers
Determine when to use database triggers or Oracle Server features
Create triggers by using alternative events (not INSERT/UPDATE/DELETE)
Create triggers by using alternative levels (not STATEMENT/ROW)
Query the relevant data dictionary views

Managing Dependencies

Overview of object dependencies
Manage PL/SQL objects for recompilation

Manipulating Large Objects

Compare and contrast LONG/RAW/LONG RAW with large objects (LOBs)
Understand LOBs
Manage binary large file objects (BFILEs)
Use PL/SQL with an LOB
Create a table with LOB columns
Manipulate LOBs
Use DBMS_LOB Oracle-supplied packages
Create a temporary LOB

Obiettivi

descrivere i package forniti con Oracle;
descrivere le funzioni e la sintassi di PL/SQL;
gestire errori in fase di esecuzione;
creare, eseguire e gestire procedure, funzioni, package e trigger;
eseguire il controllo condizionale del flusso di codice (loop, strutture di controllo e cursori espliciti);
gestire costrutti di programma;
gestire dipendenze.

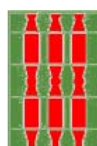
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Corso **ORACLE: Programmare con PL/SQL**

Partecipanti

Analisti di sistema
Amministratori di database
Personale Tecnico di supporto

Prerequisiti consigliati

Introduction to Oracle: SQL

Docenti

Personale docente Oracle University.

Durata del corso: 30 ore, in 5 giorni.