

ODAT-1 - ORACLE DATABASE: PL/SQL FUNDAMENTALS ED 2

Categoria: **Database**

INFORMAZIONI SUL CORSO



Durata:
2 Giorni



Categoria:
Database



Qualifica Istruttore:
Oracle Certified
Professional



Dedicato a:
Sviluppatore



Produttore:
Oracle

OBIETTIVI

Descrivere le caratteristiche e la sintassi di PL / SQL
Progettare blocchi anonimi PL / SQL che vengono eseguiti in modo efficiente
Scrivere codice PL / SQL per interfacciarsi con il database
Utilizzare PL / SQL e costrutti di programmazione condizionale per controllare il flusso di codice (loop, strutture di controllo e cursori espliciti)
Gestire gli errori di runtime
Creare ed eseguire stored procedure semplici e funzioni

PREREQUISITI

Prerequisiti obbligatori:

La familiarità con i concetti di elaborazione dei dati e la tecnica
La familiarità con i linguaggi di programmazione
Oracle Database: Introduzione a SQL NUOVO

CONTENUTI

Introduction

Course Objectives, Course Agenda and Class Account Information
Describe the Human Resources (HR) Schema
Identify the Appendices Used in this Course
Introduction to PL/SQL Development Environments
Oracle Database 12c SQL Documentation and Additional Resources

Introduction to PL/SQL

Understanding the benefits and structure of PL/SQL
Examining PL/SQL Blocks
Generating output messages in PL/SQL

Declaring PL/SQL Variables

Identify valid and invalid identifiers
Declare and initialize variables
List and describe various data types
Identify the benefits of using the %TYPE attribute
Declare, use, and print bind variables

Writing Executable Statements

- List Lexical Units in a PL/SQL Block
- Use SQL Functions in PL/SQL
- Use Data Type Conversion
- Use Nested Blocks as Statements
- Reference an Identifier Value in a Nested Block
- Qualify an Identifier with a Label
- Use Operators in PL/SQL
- Using Sequences in PL/SQL Expressions

Using SQL Statements within a PL/SQL Block

- Identify and use the SQL Statements in PL/SQL
- Retrieve Data in PL/SQL with the SELECT statement
- Avoid Errors by Using Naming Conventions When Using Retrieval and DML Statements
- Manipulate Data in the Server Using PL/SQL
- The SQL Cursor concept
- Use SQL Cursor Attributes to Obtain Feedback on DML
- Save and Discard Transactions

Writing Control Structures

- Control PL/SQL Flow of Execution
- Conditional processing Using IF and CASE Statements
- Handle Nulls to Avoid Common Mistakes
- Build Boolean Conditions with Logical Operators
- Use Iterative Control with Looping Statements

Working with Composite Data Types

- Learn the Composite Data Types of PL/SQL Records and Tables
- Use PL/SQL Records to Hold Multiple Values of Different Type
- Inserting and Updating with PL/SQL Records
- Use INDEX BY Tables to Hold Multiple Values of the Same Data Type

Using Explicit Cursors

- Define Cursors
- Explain Explicit Cursor Operations
- Controlling Explicit Cursors
- Use Explicit Cursors to Process Rows
- Cursors and Records
- Cursor FOR Loops Using Subqueries
- Explicit Cursor Attributes
- The %NOTFOUND and %ROWCOUNT Attributes

Handling Exceptions

- Define Exception
- Handling Exceptions with PL/SQL
- Predefined Exceptions
- Trapping Predefined and Non-predefined Oracle Server Errors
- Functions that Return Information on Encountered Exceptions
- Trapping User-Defined Exceptions
- Propagate Exceptions
- Basic RAISE Statement

Creating Stored Procedures and Functions

- Overview of Stored Procedures and Functions

Differentiate between anonymous blocks and subprograms
Show the CREATE OR REPLACE PROCEDURE | FUNCTION
Understand the Header Area of a Stored Procedure and Function
Create Simple Procedures and Functions
Create a Simple Procedure with an IN Parameter
Execute a Procedure and a Function

INFO

Manuale: Materiale didattico ufficiale Oracle in formato digitale. Il materiale didattico è compreso nel prezzo sia per i corsi a Calendario sia per quelli Dedicati.

Prezzo manuale: 0 € incluso nel prezzo del corso a Calendario

Natura del corso: Operativo (previsti lab su PC)