

PL/SQL 12c: Advanced

Objetivos Gerais

Este Curso tem como objetivo geral desenvolver conhecimentos e competências para utilizar recursos avançados do PL/SQL, de forma a explorar as características de PL/SQL, bem como melhorar a performance dos objetos criados.

Objetivos Específicos

No final do Curso os formandos ficarão aptos a:

- Identificar e aplicar boas práticas de PL/SQL;
- Criar coleções;
- Implementar VPD (virtual private database);
- Interagir com C e JAVA;
- Trabalhar com LOBs;
- Maximizar a performance de PL/SQL.

Destinatários

Este Curso é dirigido a todos os profissionais que já trabalham com PL/SQL e pretendem aprofundar e adquirir conhecimentos de boas práticas de programação e tirar o máximo partido de PL/SQL.

Carga Horária

18 Horas

Conteúdo Programático

Módulo I – PL/SQL Programming Concepts: Review

- Identify PL/SQL block structure;
- Packages, procedures and functions;
- Cursors;
- Handle exceptions;
- Dependencies.

Módulo II – 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;

- Describe cursor variables;
- White List.

Módulo III – Using Collections

- Write PL/SQL programs that use collections;
- Use Collections effectively;
- Enhancements to PL/SQL Type Binds.

Módulo IV – Manipulating Large Objects

- Working with LOBs;
- Overview of SecureFile LOBs.

Módulo V – Using Advanced Interface Methods

- Calling External Procedures from PL/SQL;
- Benefits of External Procedures;
- Understand how an external routine is called from PL/SQL;
- C advanced interface methods;
- Java advanced interface methods.

Módulo VI – Performance and Tuning

- Understand and influence the compiler;
- Tune PL/SQL code;
- Enable intra unit inlining;
- Identify and tune memory issues;
- Recognize network issues.

Módulo VII – Improving Performance with Caching

- Describe result caching;
- Use SQL query result cache;
- Use PL/SQL function cache;
- Review PL/SQL function cache considerations.

Módulo VIII – Analyzing PL/SQL Code

- Finding Coding Information;
- PL/Scope Concepts;
- DBMS_METADATA Package;
- PL/SQL Enhancements.

Módulo IX – Profiling and Tracing PL/SQL Code

- Tracing PL/SQL Execution;
- Tracing PL/SQL: Steps.

Módulo X – 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.

Módulo XI – Safeguarding Your Code Against SQL Injection Attacks

- SQL Injection Overview;
- Reducing the Attack Surface;
- Filtering Input with DBMS_ASSERT.