

PL/SQL TIPS & TECHNIQUES

Give your IT staff the knowledge of using advanced features of Oracle's procedural language: PL/SQL. This course covers all the latest features of PL/SQL using databases Oracle12, Oracle11 and Oracle10. The course also contains additional white papers on Java and PL/SQL and executing external procedures.

The course utilizes a variety of current tools. Students will have the opportunity to learn more about TOAD, SQL Developer, as well as the Oracle tools like SQL*Plus.

Topics include: Oracle architecture, introduction to PL/SQL syntax and language structure, PL/SQL topics such as: basic syntax, if-then-else/case/looping, cursor management, exception handling, procedures/functions, packages, PL/SQL Profiler, PL/SQL Debugger (user-defined and Oracle-defined), compiler options, code encryption, conditional compilation, cursor sharing/variables, collections, triggers, dynamic SQL, autonomous transactions, PL/SQL coding tips, debugging, and profiling.

Each attendee receives a study guide with relevant white papers, diskette full of useful SQL and SQL*Plus scripts, and a hands-on opportunity to learn more about Oracle, TOAD, and SQL Developer.



AUDIENCE

- (1) database developer
- (2) software developer/programmers



PREREQUISITES

- (1) working knowledge of SQL and PL/SQL



COURSE OBJECTIVES

- (1) learn how to find the poorly-performing components of PL/SQL routines
- (2) use Oracle's newer debug routines to find problems in PL/SQL logic
- (3) use latest features of the PL/SQL language
- (4) use the new optimizing compiler
- (5) use collections



COURSE OUTLINE

NO TRAINING BUDGET?

Ask about Incumbent Worker Training grants!

DAY 1

- Oracle RDBMS Architecture Overview
- Introduction to SQL Developer/TOAD/SQL*Plus
- Introduction to PL/SQL
- Basic Syntax & Variables
- Cursors (Implicit & Explicit, Cursor Loops)
- PL/SQL Control Structures

DAY 2

- PL/SQL Exception Handling
- Procedures/Functions/Packages
 - Passing Parameters
- PL/SQL Compiler Options
 - Code Encryption
- Conditional Compilation
- Definer/Invoker Rights
- Executing/Exception Handling
- Autonomous Transactions

DAY 3

- Database Triggers
- DML, Instead of, ServerErrorStartup
- Shutdown, Logon
- Working with Cursors
- User-defined Datatypes
 - Cursor Sharing
 - Cursor Variables
- Strong vs Weak Cursors
- Working with Collections
 - Associate Arrays
 - Nested Tables
 - Varravs
- Bulk Collect/Forall Bulk Binding
- Using Collections for Reference Table
- Oracle Provided Packages
 - DBMS_Alert
 - DBMS_Job
 - DBMS_Output
 - DBMS_Scheduler
 - UTL_File, UTL_Mail
- Other Provided Packages

DAY 4

ADVANCED ORACLE PL/SQL

- DBMS_SQL & Dynamic SQL
- Working with Large Objects
- Debugging PL/SQL Routines
- PL/SQL Profile

