



Advanced PL/SQL Tips and Techniques

3-day Workshop

Give your IT staff the knowledge of using advanced features of Oracle's procedural language: PL/SQL.

The focus of this course is to advance attendee knowledge of the PL/SQL programming language. This is an excellent course for those people that need a better knowledge of the PL/SQL language. This course covers all the latest features of PL/SQL using databases Oracle9i, Oracle10g, and Oracle11g.

The attendees have the opportunity to learn how to find the poorly-performing components of PL/SQL routines, use Oracle's newer DEBUG routines to find problems in PL/SQL logic and how to use the latest features of the PL/SQL language such as the new optimizing compiler and collections.

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.

Workshop Prerequisites:

A working knowledge of SQL and PL/SQL is required.

Topics covered:

- Oracle Architecture
- Introduction to PL/SQL
 - Syntax and language structure review
- PL/SQL Topics
 - Package Usage (both User Defined and Oracle Defined Packages)
 - Compiler Options, Code Encryption, Conditional Compilation
 - Cursor Sharing/Cursor Variables
 - Collections
 - Triggers
 - Dynamic SQL
 - Autonomous Transactions
 - PL/SQL Coding Tips
 - Debugging PL/SQL
 - PL/SQL Profiling

Attendees Receive:

- Study guide and relevant white papers
- Diskette full of useful SQL and SQL*Plus scripts
- A hands-on opportunity to learn more about Oracle, TOAD, and SQL Developer

Course Outline:

- Day 1: Advanced Oracle PL/SQL
 - PL/SQL Overview/Review
 - PL/SQL Compiler Options
 - Code Encryption
 - Conditional Compilation
 - Definer/Invoker Rights
 - Executing and Exception handling
 - Autonomous Transactions
 - Package Options
 - Overloading
 - Database Triggers
 - DML, Instead of, ServerError, Startup, Shutdown, Logon
- Day 2: Advanced Oracle PL/SQL
 - Working with Cursors
 - User Defined Datatypes
 - Cursor Sharing
 - Cursor Variables
 - Strong vs Weak Cursors
 - Working with Collections
 - Associate Arrays
 - Nested Tables
 - Varrays
 - 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
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- Day 3: Advanced Oracle PL/SQL
 - DBMS_SQL & Dynamic SQL
 - Working with Large Objects
 - Debugging PL/SQL Routines
 - PL/SQL Profile

About Dan Hotka:

Dan Hotka is a Training Specialist who has over 31 years in the computer industry and over 26 years of experience with Oracle products. He is an internationally recognized Oracle expert with Oracle experience dating back to the Oracle V4.0 days. Dan's latest book is the TOAD Handbook by Pearson. He is also the author of SQL Developer Handbook by Oracle Press, SQL Developer Handbook by Oracle Press, Oracle9i Development By Example, and Oracle8i from Scratch by Que and has co-authored 7 other popular books including the Database Oracle10g Linux Administration by Oracle Press. He is frequently published in Oracle trade journals, and regularly speaks at Oracle conferences and user groups around the world. Visit his website at www.DanHotka.com. Dan can be reached at dhotka@earthlink.net .

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