



Introduction to PL/SQL

2-day Workshop

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

The focus of this course is to students with a working knowledge of SQL the ability to develop Oracle procedures, functions, and database triggers using PL/SQL.

The attendees have the opportunity to construct various PL/SQL routines to solve simple and complex business questions. Dan will cover how to code PL/SQL, access data in a variety of methods, error handling, and will touch on debugging PL/SQL.

The optional 3rd day involves training the attendees in how to use TOAD ****OR**** Oracle's free Project Raptor tool to assist with their day-to-day development needs. Attendees will be able to use TOAD or SQL Developer to do the lab exercises and learn how to use the Procedure Editor and debug their PL/SQL routines. Students will also see how to enter their SQL using the TOAD or SQL Developer interface, easily create spreadsheets from data, display data, see various application relationships, and more.

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

Workshop Prerequisites:

A working knowledge of SQL is required.

Topics covered:

- Oracle Architecture
- Introduction to PL/SQL
 - Syntax and language structure
- PL/SQL Topics
 - Cursor management
 - Exception handling
 - Procedures/Functions/Triggers
 - Packages
- Optional TOAD or Project Raptor Tips and Techniques for IT

Lectures and topics are enhanced with live illustrations and hands-on exercises

Attendees Receive:

- Study guide with presentations and relevant white papers
- Book: Oracle9i Development by Example
- Diskette full of example SQL and SQL*Plus scripts
- Opportunity to ask the tough Oracle questions
- A hands-on opportunity to learn more about Oracle, Project Raptor, and TOAD
- TOAD or Project Raptor Tips and Techniques

Course Outline:

- Day 1: Introduction to Oracle PL/SQL
 - Oracle RDBMS Architecture overview
 - Introduction to TOAD/SQL*Plus
 - Introduction to PL/SQL
 - Basic Syntax
 - Variables
 - Cursors
 - Implicit & Explicit
 - Cursor Loops
 - PL/SQL Control Structures
- Day 2: Introduction to Oracle PL/SQL
 - PL/SQL Exception Handling
 - Procedures/Functions/Database Triggers
 - Passing Parameters
 - Packages
 - PL/SQL 10g New Features
 - Array Processing
- Optional Day 3: TOAD Tips and Techniques for IT
 - SQL Editor Tips and Techniques (viewing/changing Data, creating reports, extracting Data, working with SQL, discovering all of the help available, creating SQL with minimal key strokes using templates & auto substitution)
 - Schema Browser Tips and Techniques (viewing/changing Data, creating reports, extracting Data, working with scripts, working with spreadsheets, etc)
 - Procedure Editor Usage (develop, execute, and debug PL/SQL routines, work with templates to create procedures/functions/triggers)
 - SQL Modeler/ER Diagrammer/Master Detail Browser (viewing application data relationships/viewing related Data)
 - Miscellaneous topics include TOAD configuration and other topics not covered in the other areas such as using the TOAD explain plan and using TOAD with the Oracle Trace Facility (a great interface to TKProf!!!)

About Dan Hotka:

Dan Hotka is a Training Specialist who has over 28 years in the computer industry and over 23 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 SQL Developer Handbook by Oracle Press. He is also the author of 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.

Reference from one client to a prospective client:

As Coordinator of Human Resources Development, I oversee training and development for all of our employees (approximately 1400 employees).

In May of this year, I hired Dan Hotka as an independent contractor to train 36 of our programmers on our campus. Dan worked with one of our IT managers and myself to customize a SQL Tuning and Troubleshooting program that would meet our specific training needs.

The resulting program exceeded our expectations, and our employees came out of the training with skills that they were able to immediately apply to their jobs.

From my perspective, one of Dan's greatest strengths as a trainer is that he has real world experience using the software. He's not just a trainer who has learned the software and teaches a class. When I contract with a trainer, I expect him to be able to answer specific questions that our employees have about the work they are doing. Dan was able to take on that consulting role and apply the software to the work we are doing here.

We have recently approved our development plans for FY04, and I am certain that we will be working with Dan to develop training programs again this year. I would most definitely recommend Dan Hotka to our best clients because of the real world experience he brings to the classroom and his willingness to meet our specific training needs.

*Regards,
(name and company withheld by request)*