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EDITION

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# Oracle Database 11g PL/SQL Programming Workbook

Master Essential Programming Skills Hands-On



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DATABASE 11g

From Oracle 11g  
PL/SQL Programming  
Handbook, Second Edition  
by Michael McLaughlin and John M. Harper  
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# Oracle Plsql Programming A Developers Workbook

**Michael McLaughlin**

## **Oracle Plsql Programming A Developers Workbook:**

Oracle PL/SQL Programming: A Developer's Workbook Steven Feuerstein, Andrew Odewahn, 2000-05-01 However excellent they are most computer books are inherently passive readers simply take in text without having any opportunity to react to it. The Oracle PL SQL Developer's Workbook is a different kind of animal. It's designed to engage you actively to get you solving programming problems immediately and to help you apply what you've learned about PL SQL and in the process deepen your knowledge of the language. By tackling the exercises in this workbook you'll find yourself moving more rapidly along the learning curve to join the growing ranks of PL SQL experts. The Oracle PL SQL Developer's Workbook is a companion to Steven Feuerstein's bestselling Oracle PL SQL Programming and his other PL SQL books from O'Reilly. It contains a carefully constructed set of problems and solutions that will test your language skills and help you become a better developer both with PL SQL and with other languages. Exercises are provided at three levels: beginner, intermediate, and expert. The workbook exercises cover all the major features of PL SQL, including those new to Oracle8i, e.g. Java and web features, autonomous transactions and bulk binds. You'll find chapters on Basic language elements, variables, naming, loops, conditional and sequential control, exception handling and records. Data structures, index by tables, nested tables, variables, arrays, VARRAYs and object technology. Database interaction, cursors, DML and transaction management, cursor variables and native dynamic SQL. Program construction, procedures, functions, blocks, packages, database triggers and calling PL SQL functions in SQL. Built-in functionality, the character, date, conversion, numeric and miscellaneous functions and the DBMS\_SQL, DBMS\_PIPE, DBMS\_OUTPUT, UTL\_FILE and DBMS\_JOB built-in packages. Miscellaneous topics using Java with PL SQL external programs, PL SQL web development, tuning PL SQL and PL SQL for DBAs.

*Advanced Oracle PL/SQL* Steven Feuerstein, 1996. This book expands on the techniques provided in Oracle PL SQL Programming, taking readers deep into the world of PL SQL packages. The book provides much more than advice and examples. It comes with a disk containing a full use shareware version of PL Vision, a library of dozens of packages written by the author. These packages greatly accelerate the development of PL SQL based applications.

**Oracle PL/SQL Programming** Steven Feuerstein, Bill Pribyl, 2002. The authors have revised and updated this bestseller to include both the Oracle8i and new Oracle9i Internet savvy database products.

**Oracle PL/SQL Best Practices** Steven Feuerstein, 2001-04-09. In this book, Steven Feuerstein, widely recognized as one of the world's experts on the Oracle PL SQL language, distills his many years of programming, writing and teaching about PL SQL into a set of PL SQL language best practices rules for writing code that is readable, maintainable and efficient. Too often, developers focus on simply writing programs that run without errors and ignore the impact of poorly written code upon both system performance and their ability and their colleagues' ability to maintain that code over time. Oracle PL SQL Best Practices is a concise, easy to use reference to Feuerstein's recommendations for excellent PL SQL coding. It answers the kinds of questions PL SQL developers most frequently ask about their code. How

should I format my code What naming conventions if any should I use How can I write my packages so they can be more easily maintained What is the most efficient way to query information from the database How can I get all the developers on my team to handle errors the same way The book contains 120 best practices divided by topic area It's full of advice on the program development process coding style writing SQL in PL/SQL data structures control structures exception handling program and package construction and built-in packages It also contains a handy pull-out quick reference card As a helpful supplement to the text code examples demonstrating each of the best practices are available on the O'Reilly web site Oracle PL/SQL Best Practices is intended as a companion to O'Reilly's larger Oracle PL/SQL books It's a compact readable reference that you'll turn to again and again a book that no serious developer can afford to be without [Oracle PL/SQL](#)

[Programming: A Developer's Workbook](#) Steven Feuerstein, Andrew Odewahn, 2000 Written by one of the world's leading experts on the Oracle PL/SQL language this text offers extensive exercises in all skill levels covering major features of the language Also provides a primer to the PL/SQL language [\*\*Learning Oracle PL/SQL\*\*](#) Bill Pribyl, Steven Feuerstein, 2002 Learning Oracle PL/SQL introduces PL/SQL in a way that's useful to a variety of audiences beginning programmers new Oracle database administrators and developers familiar with other databases who now need to learn Oracle A consistent and understandable example application the development of a library's electronic catalog system runs through the chapters

[\*\*Oracle PL/SQL Programming\*\*](#) Steven Feuerstein, Bill Pribyl, 2005-08-22 For the past ten years O'Reilly's Oracle PL/SQL Programming has been the bestselling book on PL/SQL Oracle's powerful procedural language Packed with examples and helpful recommendations the book has helped everyone from novices to experienced developers and from Oracle Forms developers to database administrators make the most of PL/SQL The fourth edition is a comprehensive update adding significant new content and extending coverage to include the very latest Oracle version Oracle Database 10g Release 2 It describes such new features as the PL/SQL optimizing compiler conditional compilation compile time warnings regular expressions set operators for nested tables nonsequential collections in FORALL the programmer-defined quoting mechanism the ability to backtrace an exception to a line number a variety of new built-in packages and support for IEEE 754 compliant floating point numbers The new edition adds brand-new chapters on security including encryption row-level security fine-grained auditing and application contexts file email and web I/O including the built-in packages DBMS\_OUTPUT UTL\_FILE UTL\_MAIL UTL\_SMTP and UTL\_HTTP and globalization and localization Co-authored by the world's foremost PL/SQL authority Steven Feuerstein this classic reference provides language syntax best practices and extensive code ranging from simple examples to complete applications making it a must have on your road to PL/SQL mastery A companion web site contains many more examples and additional technical content for enhanced learning [\*\*Oracle PL/SQL Language Pocket Reference\*\*](#) Steven Feuerstein, Bill Pribyl, Chip Dawes, 2007-11-26 The fourth edition of this popular pocket guide provides quick reference information that will help you use Oracle's PL/SQL language including the newest Oracle Database 11g

features It's a companion to Steven Feuerstein and Bill Pribyl's bestselling Oracle PL/SQL Programming. This concise guide boils down the most vital PL/SQL information into an accessible summary of fundamental language elements e.g. block structure, datatypes, declarations, statements for program control, cursor management and exception handling, records, procedures, functions, triggers and packages. Calling PL/SQL functions in SQL, compilation options, object-oriented features, collections and Java integration. The new edition describes such Oracle Database 11g elements as PL/SQL's function result cache, compound triggers, the CONTINUE statement, the SIMPLE\_INTEGER datatype and improvements to native compilation, regular expressions and compiler optimization including intra-unit inlining. In addition, this book now includes substantial new sections on Oracle's built-in functions and packages. When you need answers quickly, the Oracle PL/SQL Language Pocket Reference will save you hours of frustration.

[Oracle PL/SQL Language Pocket Reference](#) Steven Feuerstein, Bill Pribyl, Chip Dawes, 2004-04-06

Provides quick reference information that will help you use Oracle's PL/SQL language, including the newest Oracle Database 10g features. This is a companion to Steven Feuerstein and Bill Pribyl's Oracle PL/SQL Programming.

[Oracle PL/SQL Programming](#) Steven Feuerstein, Bill Pribyl, 2014-01-23

Considered the best Oracle PL/SQL programming guide by the Oracle community, this definitive guide is precisely what you need to make the most of Oracle's powerful procedural language. The sixth edition describes the features and capabilities of PL/SQL up through Oracle Database 12c Release 1. Hundreds of thousands of PL/SQL developers have benefited from this book over the last twenty years; this edition continues that tradition. With extensive code examples and a lively sense of humor, this book explains language fundamentals, explores advanced coding techniques, and offers best practices to help you solve real-world problems. Get PL/SQL programs up and running quickly with clear instructions for executing, tracing, testing, debugging, and managing code. Understand new 12.1 features including the ACCESSIBLE\_BY clause, WITH FUNCTION and UDF pragma, BEQUEATH CURRENT\_USER for views, and new conditional compilation directives. Take advantage of extensive code samples from easy-to-follow examples to reusable packaged utilities. Optimize PL/SQL performance with features like the function result cache and Oracle utilities such as PL Scope and the PL/SQL hierarchical profiler. Build modular, easy-to-maintain PL/SQL applications using packages, procedures, functions, and triggers.

[Advanced Oracle PL/SQL Developer's Guide - Second Edition](#) Saurabh K. Gupta, 2016-02-15

The OCP certification is the second milestone for the experienced associate level Oracle professionals, which enhances one's credibility in the work environment and catalyzes your employment opportunities. The Packt's book Oracle Advanced PL/SQL Developer Professional Guide helps you to master the advanced PL/SQL concepts in Oracle 11g. The book aims to be a sure selection for the experienced Oracle professionals aspiring for Professional level by writing Oracle certification exam 1Z0-146 Oracle Database 11g Advanced PL/SQL. The topics covered in the book are in line with the Oracle University prescription for 1Z0-146 certification, which justify the version updates to be advanced and not complex. The book has been reviewed by Oracle ACEs Kamran Agayev, Ronald Rood, Mohan Dutta, and Marcel Hoefs. The book

covers the advanced features of PL SQL which are required to design and optimize the PL SQL code in database applications The features like collections external procedures server side result caching enforce row level security using VPD handling large objects and SecureFiles build up a concrete platform for a PL SQL professional Apart from the programming the book makes instrumental recommendations on the usage of development tool SQL Developer employing best practices in database environments and safeguarding the vulnerable areas in PL SQL code to avoid code injection

*Expert PL/SQL Practices*  
Michael Rosenblum, Dominic Delmolino, Lewis Cunningham, Riyaj Shamsudeen, Connor McDonald, Melanie Caffrey, Sue Harper, Torben Holm, Robyn Sands, John Beresniewicz, Ron Crisco, Martin Bchi, Adrian Billington, Stephan Petit, Arup Nanda, 2011-07-26

Expert PL SQL Practices is a book of collected wisdom on PL SQL programming from some of the best and the brightest in the field Each chapter is a deep dive into a specific problem technology or feature set that you ll face as a PL SQL programmer Each author has chosen their topic out of the strong belief that what they share can make a positive difference in the quality and scalability of code that you write The path to mastery begins with syntax and the mechanics of writing statements to make things happen If you ve reached that point with PL SQL then let the authors of Expert PL SQL Practices show you how to combine syntax and mechanics with features and techniques to really make the language sing You ll learn to do more with less effort to write code that scales and performs well and to eliminate and avoid defects These authors are passionate about PL SQL and the power it places at your disposal They want you to succeed to know all that PL SQL can offer Let Expert PL SQL Practices open your eyes to the full power of Oracle s world class language for the database engine Goes beyond the manual to cover good techniques and best practices Delivers knowledge usually gained only by hard experience Covers the functionality that distinguishes PL SQL as a powerful and scalable programming language for deploying logic inside the database engine

**Oracle Web Application Programming for PL/SQL Developers** Susan Boardman, Melanie Caffrey, Solomon Morse, Benjamin Rosenzweig, 2003 Learn to use Oracle 9i to build dynamic data driven Web sites Get step by step details on creating and deploying Web applications using PL SQL HTML Java XML WML Peri and PHP This book covers everything users need to know to master Web application development in an Oracle environment using PL SQL

Oracle PL/SQL Programming Steven Feuerstein, 1999 This guide is designed to bring you up to speed as quickly as possible on the new PL SQL features of Oracle8i It covers autonomous transactions invoker rights new built in packages and much more

*Oracle PL/SQL Built-ins Pocket Reference* Steven Feuerstein, John Beresniewicz, Chip Dawes, 1998 This pocket reference provides quick reference information that will help you use Oracle Corporation s extensive set of built in functions and packages including those new to Oracle8 Oracle s PL SQL language is a programming language providing procedural extensions to the SQL relational database language and to an ever growing number of Oracle development tools Among the most useful constructs in the PL SQL language are the built in functions and packages Built in functions are constructs that operate on certain types of data e g numeric character to return a result By using functions you can minimize

the coding you need to do in your programs Functions are described in detail in Steven Feuerstein's Oracle PL SQL Programming this comprehensive guide to building applications with PL SQL has become the bible for PL SQL developers who have raved about its completeness readability and practicality Built in functions fall into several major categories Character functions Operate on character data Examples include CONCAT concatenates two strings into one LENGTH returns the length of a string and REPLACE replaces a character sequence in a string with a different set of characters Date functions Operate on dates and supplement the DATE datatype Examples include SYSDATE returns the current date and time in the Oracle Server and LAST\_DAY returns the last day in the month of the specified date Numeric functions Operate on numeric data Examples include CEIL returns the smallest integer greater than or equal to the specified number and POWER returns a number raised to a particular power LOB functions Operate on large object data Examples include EMPTY\_BLOB returns an empty locator of the binary large object type and EMPTY\_CLOB returns an empty locator of the character large object type Conversion functions Perform explicit conversions of different types of data Examples include TO\_CHAR converts a number or date to a string and TO\_NUMBER converts a string to a number Miscellaneous functions Examples include GREATEST returns the greatest of the specified list of values and UID returns the user ID of the current Oracle session Built in packages collections of PL SQL objects such as functions procedures and data structures greatly expand the scope of the PL SQL language These packages are described in detail in Feuerstein's and Beresniewicz's book Oracle Built in Packages Built in packages are built by Oracle Corporation and stored directly in the Oracle database The functionality of the built ins is available from any programming environment that can call PL SQL stored procedures including Visual Basic Oracle Developer 2000 Oracle Application Server for Web based development and of course the Oracle database itself Built in packages extend the capabilities and power of PL SQL in many significant ways For example DBMS\_SQL executes dynamically constructed SQL statements and PL SQL blocks of code DBMS\_PIPE communicates between different Oracle sessions through a pipe in the RDBMS shared memory DBMS\_JOB submits and manages regularly scheduled jobs for execution inside the database DBMS\_LOB accesses and manipulates Oracle8's large objects LOBs from within PL SQL programs The book shows how to call all of the commonly used built in functions and packages For packages it also shows the RESTRICT REFERENCES pragmas needed if you call packages from a SQL statement as well as the exceptions constants and data structures defined in the packages

**Oracle Database 12c PL/SQL Programming** Michael McLaughlin, 2014-02-07 Master Oracle Database 12c PL SQL Application Development Develop, debug and administer robust database programs Filled with detailed examples and expert strategies from an Oracle ACE Oracle Database 12c PL SQL Programming explains how to retrieve and process data write PL SQL statements execute effective queries incorporate PHP and Java and work with dynamic SQL Code testing security and object oriented programming techniques are fully covered in this comprehensive Oracle Press guide Explore new SQL and PL SQL features in Oracle Database 12c Build, control

structures cursors and loop statements Work with collections varrays tables and associative array collections Locate and repair errors and employ exception handlers Execute black box white box and integration tests Configure and manage stored packages and libraries Handle security with authentication and encryption Use LOBs to store text and multimedia content Write and implement PL SQL and Java triggers Extend functionality using dynamic SQL statements Understand object types nested tables and unnesting queries *Advanced Oracle PL/SQL Developer's Guide* Saurabh K. Gupta, 2016-02-15 Master the advanced concepts of PL SQL for professional level certification and learn the new capabilities of Oracle Database 12c About This Book Learn advanced application development features of Oracle Database 12c and prepare for the 1Z0 146 examination Build robust and secure applications in Oracle PL SQL using the best practices Packed with feature demonstrations and illustrations that will help you learn and understand the enhanced capabilities of Oracle Database 12c Who This Book Is For This book is for Oracle developers responsible for database management Readers are expected to have basic knowledge of Oracle Database and the fundamentals of PL SQL programming Certification aspirants can use this book to prepare for 1Z0 146 examination in order to be an Oracle Certified Professional in Advanced PL SQL What You Will Learn Learn and understand the key SQL and PL SQL features of Oracle Database 12c Understand the new Multitenant architecture and Database In Memory option of Oracle Database 12c Know more about the advanced concepts of the Oracle PL SQL language such as external procedures securing data using Virtual Private Database VPD SecureFiles and PL SQL code tracing and profiling Implement Virtual Private Databases to prevent unauthorized data access Trace analyze profile and debug PL SQL code while developing database applications Integrate the new application development features of Oracle Database 12c with the current concepts Discover techniques to analyze and maintain PL SQL code Get acquainted with the best practices of writing PL SQL code and develop secure applications In Detail Oracle Database is one of the most popular databases and allows users to make efficient use of their resources and to enhance service levels while reducing the IT costs incurred Oracle Database is sometimes compared with Microsoft SQL Server however Oracle Database clearly supersedes SQL server in terms of high availability and addressing planned and unplanned downtime Oracle PL SQL provides a rich platform for application developers to code and build scalable database applications and introduces multiple new features and enhancements to improve development experience Advanced Oracle PL SQL Developer's Guide Second Edition is a handy technical reference for seasoned professionals in the database development space This book starts with a refresher of fundamental concepts of PL SQL such as anonymous block subprograms and exceptions and prepares you for the upcoming advanced concepts The next chapter introduces you to the new features of Oracle Database 12c not limited to PL SQL In this chapter you will understand some of the most talked about features such as Multitenant and Database In Memory Moving forward each chapter introduces advanced concepts with the help of demonstrations and provides you with the latest update from Oracle Database 12c context This helps you to visualize the pre and post applications of a feature over the

database releases By the end of this book you will have become an expert in PL SQL programming and will be able to implement advanced concepts of PL SQL for efficient management of Oracle Database Style and approach The book follows the structure of the Oracle Certification examination but doesn t restrict itself to the exam objectives Advanced concepts have been explained in an easy to understand style supported with feature demonstrations and case illustrations **The Oracle PL/SQL CD Bookshelf**,2000 Readers get the complete text of the following books on CD ROM Oracle PL SQL Programming Advanced PL SQL Programming Oracle Web Applications Oracle Built in Packages Oracle Developer s Workbook Oracle PL SQL Pocket Reference Oracle Built ins Pocket Reference and Oracle PL SQL Programming A Guide to Oracle 8i Features *Designing with Javascript* Nick Heinle,Bill Peña,2002 A guide for beginners offers an overview of JavaScript basics and explains how to create Web pages identify browsers and integrate sound graphics and animation into Web applications *Oracle PL/SQL Best Practices* Steven Feuerstein,2001 In this book Steven Feuerstein widely recognized as one of the world s experts on the Oracle PL SQL language distills his many years of programming writing and teaching about PL SQL into a set of PL SQL language best practices rules for writing code that is readable maintainable and efficient Too often developers focus on simply writing programs that run without errors and ignore the impact of poorly written code upon both system performance and their ability and their colleagues ability to maintain that code over time Oracle PL SQL Best Practices is a concise easy to use reference to Feuerstein s recommendations for excellent PL SQL coding It answers the kinds of questions PL SQL developers most frequently ask about their code How should I format my code What naming conventions if any should I use How can I write my packages so they can be more easily maintained What is the most efficient way to query information from the database How can I get all the developers on my team to handle errors the same way The book contains 120 best practices divided by topic area It s full of advice on the program development process coding style writing SQL in PL SQL data structures control structures exception handling program and package construction and built in packages It also contains a handy pull out quick reference card As a helpful supplement to the text code examples demonstrating each of the best practices are available on the O Reilly web site Oracle PL SQL Best Practices is intended as a companion to O Reilly s larger Oracle PL SQL books It s a compact readable reference that you ll turn to again and again a book that no serious developer can afford to be without

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