

Oracle PL/SQL Programming Fundamentals A Tutorial By Examples

Write powerful queries using as much of the feature-rich Oracle SQL language as possible, progressing beyond the simple queries of basic SQL as standardized in SQL-92. Both standard SQL and Oracle's own extensions to the language have progressed far over the decades in terms of how much you can work with your data in a single, albeit sometimes complex, SQL statement. If you already know the basics of SQL, this book provides many examples of how to write even more advanced SQL to huge benefit in your applications, such as:

- Pivoting rows to columns and columns to rows
- Recursion in SQL with MODEL and WITH clauses
- Answering Top-N questions
- Forecasting with linear regressions
- Row pattern matching to group or distribute rows
- Using MATCH_RECOGNIZE as a row processing engine

The process of starting from simpler statements in SQL, and gradually working those statements stepwise into more complex statements that deliver powerful results, is covered in each example. By trying out the recipes and examples for yourself, you will put together the building blocks into powerful SQL statements that will make your application run circles around your

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competitors. What You Will Learn Take full advantage of advanced and modern features in Oracle SQL Recognize when modern SQL constructs can help create better applications Improve SQL query building skills through stepwise refinement Apply set-based thinking to process more data in fewer queries Make cross-row calculations with analytic functions Search for patterns across multiple rows using row pattern matching Break complex calculations into smaller steps with subquery factoring Who This Book Is For Oracle Database developers who already know some SQL, but rarely use features of the language beyond the SQL-92 standard. And it is for developers who would like to apply the more modern features of Oracle SQL, but don't know where to start. The book also is for those who want to write increasingly complex queries in a stepwise and understandable manner. Experienced developers will use the book to develop more efficient queries using the advanced features of the Oracle SQL language.

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:

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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. This book provides a full overview of the PL/SQL programming language and how to use it effectively. Coverage extends from the basics through the writing and testing of PL/SQL code, and onto advanced topics including Dynamic SQL and code tuning. Readers learn the material with the help of extensive conceptual discussions, real-world examples, a running business case, and plenty of step-by-step instruction.

"In this LiveLessons course, Oracle ACE Director Dan Hotka will teach you how to work with existing code and create new programs. Along the way, you

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will learn both conditional and looping syntax and techniques, error handling and error processing, plus how to work with script files, procedures, functions and packages (a collection of procedures and functions). This hands-on course also covers how to use the PL/SQL Debugger and the PL/SQL profiler and how to apply PL/SQL performance tips."--Resource description page.

- * A detailed tutorial that takes you from no knowledge of Oracle programming to mastery, teaching you how to write correct, production quality code right from the start.
- * A clear, step-by-step guide to every aspect of programming the Oracle database, with practical programming techniques and troubleshooting advice from Oracle experts.
- * Provides an extensive SQL toolkit to tackle common day-to-day database tasks

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

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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

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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-

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to-understand style, supported with feature demonstrations and case illustrations.

This book has been prepared for the Computer Science and Information Technology graduates to help them understand the basic to basic concepts related to PL/SQL as oracle database programming language. After completing this book you will find yourself at a moderate level of expertise in using PL/SQL for database and software development. This PL/SQL book teaches you the basics of database programming in PL/SQL with appropriate PL/SQL tutorials with coding examples. You can use this book as your guide to practice, learn, for training, or reference while programming with PL SQL. This book will be making more Oracle PL SQL programming tutorials as often as possible to share my knowledge in PL SQL and help you in learning PL SQL language and syntax better. This PL/SQL book offers straightforward, practical answers when you need fast results. By working through the book's 11 lessons of 10 minutes or less, you'll learn what you need to know to take advantage of Oracles PL/SQL language. This book as a guide starts with simple data retrieval and moves on to more complex topics, including the use of joins, sub queries, regular expression and full text-based searches, stored procedures, cursors, triggers, table constraints, and much more. Even though the programming concepts discussed in this book is

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specific to Oracle PL/SQL. The concepts like cursor, functions and stored procedures can be used in other database systems like Sybase, Microsoft SQL server etc, with some change in SQL syntax. This book makes an assumption that you are already aware about basic computer software including SQL and hardware concepts like what is primary and secondary memory, various storage systems, operating system and applications etc. If you are not well aware of these concepts then I will suggest going through a short tutorial on Computer Fundamentals.

If you have mastered the fundamentals of the PL/SQL language and are now looking for an in-depth, practical guide to solving real problems with PL/SQL stored procedures, then this is the book for you.

The primary objective of this Oracle 11g training course is to provide an introduction to the PL/SQL database programming language covering syntax, structure and features of the language within the context of database applications and programming.

Oracle PL/SQL Recipes is your go to book for PL/SQL programming solutions. It takes a task-oriented approach to PL/SQL programming that lets you quickly look up a specific task and see the pattern for a solution. Then it's as simple as modifying the pattern for your specific application and implementing it. And you're done and home for dinner.

Oracle PL/SQL Recipes is another in Apress' ongoing series of recipe books aimed at Oracle practitioners. The recipe format is ideal for the busy professional who just needs to get

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the job done. Covers the most common PL/SQL programming problems Presents solutions in ready-to-use format Stays short and to-the-point

PL/SQL, Oracle's powerful procedural language, has been the cornerstone of Oracle application development for nearly 15 years. Although primarily a tool for developers, PL/SQL has also become an essential tool for database

administration, as DBAs take increasing responsibility for site performance and as the lines between developers and DBAs blur. Until now, there has not been a book focused squarely on the language topics of special concern to DBAs

Oracle PL/SQL for DBAs fills the gap. Covering the latest Oracle version, Oracle Database 10g Release 2 and packed with code and usage examples, it contains: A quick tour of the PL/SQL language, providing enough basic information about language fundamentals to get DBAs up and running

Extensive coverage of security topics for DBAs: Encryption (including both traditional methods and Oracle's new Transparent Data Encryption, TDE); Row-Level Security(RLS), Fine-Grained Auditing (FGA); and random value generation

Methods for DBAs to improve query and database performance with cursors and table functions

Coverage of Oracle scheduling, which allows jobs such as database monitoring and statistics gathering to be scheduled for regular execution

Using Oracle's built-in packages (DBMS_CRYPTO, DBMS_RLS, DBMS_FGA, DBMS_RANDOM, DBMS_SCHEDULING) as a base, the

book describes ways of building on top of these packages to suit particular organizational needs. Authors are Arup Nanda, Oracle Magazine 2003 DBA of the Year, and Steven

Feuerstein, the world's foremost PL/SQL expert and coauthor of the classic reference, Oracle PL/SQL Programming. DBAs who have not yet discovered how helpful PL/SQL can be will

find this book a superb introduction to the language and its

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special database administration features. Even if you have used PL/SQL for years, you'll find the detailed coverage in this book to be an invaluable resource.

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, Perl and PHP. This book covers everything users need to know to master Web application development in an Oracle environment - using PL/SQL.

Design Feature-Rich PL/SQL Applications Deliver dynamic, client/server PL/SQL applications with expert guidance from an Oracle programming professional. With full coverage of the latest features and tools, Oracle Database 11g PL/SQL Programming lays out each topic alongside detailed explanations, cut-and-paste syntax examples, and real-world case studies. Access and modify database information, construct powerful PL/SQL statements, execute effective queries, and deploy bulletproof security. You'll also learn how to implement C, C++, and Java procedures, Web-enable your database, cut development time, and optimize performance. Create, debug, and manage Oracle-driven PL/SQL programs Use PL/SQL structures, delimiters, operators, variables, and statements Identify and eliminate errors using PLSQL_WARNINGS and exception handlers Work with functions, procedures, packages, collections, and triggers Define and deploy varray, nested table, and associative array data types Handle external routines, object types, large objects, and secure files Communicate between parallel sessions using DBMS_ALERT and DBMS_PIPE Call external procedures through Oracle Net Services and PL/SQL wrappers Integrate internal and server-side Java class libraries using Oracle JVM Develop robust Web applications using PL/SQL Gateway and Web Toolkit

Provides beginning DBAs and developers with a solid

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foundation in the database administration and programming basics needed to embark on an Oracle career. The focus is on Oracle Database 10g, but you'll get the fundamentals applicable to all Oracle database releases.

Explains how to develop applications using Oracle PL/SQL, covering such concepts as iterative and conditional control, scoping, anchored datatypes, security, tables, and cursors. "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.

"This Learning Path includes Oracle SQL

LiveLessons, Oracle PL/SQL Programming:

Fundamentals to Advanced LiveLessons, and Toad

for Oracle LiveLessons. Oracle SQL LiveLessons

Video Training covers the basics of the Oracle SQL programming language. This course covers both

Oracle standard SQL and the ANSI approved SQL

that Oracle supports. The focus of the course is to

give students working knowledge of the Oracle SQL

language and at the conclusion of this course,

students should be able to query the Oracle

database. Oracle PL/SQL Programming:

Fundamentals to Advanced LiveLessons begins with

a fundamentals module that covers the basics of

Oracle's language extension for SQL and the Oracle

relational database. The focus is to give students

with a working knowledge of SQL the ability to

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develop Oracle procedures, functions, and packages using the PL/SQL language. The advanced module teaches developers with PL/SQL experience the new and advanced features of the PL/SQL language along with performance tuning techniques. Toad for Oracle LiveLessons video training covers the latest features of TOAD necessary to view, extract, and manipulate data within the Oracle database. This course is designed for both the developer using Toad to aid in programming Oracle objects, as well as for the business analyst using Toad as a query tool for data extraction and analysis."--Resource description page.

This book is packed with real world examples that cover all the advanced features of PL/SQL. In turn, each major certification topic is covered in a separate chapter that makes understanding concepts easier. At the end of each chapter, you will find plenty of practice questions to strengthen and test your learning. If you are a PL/SQL developer looking for deeper insight and a move from mid-level programmer to professional database developer, then this is the best guide for you. This book is also an ideal guide for all the Associate level PL/SQL programmers who are preparing for the Professional 1Z0-146 certification. This book assumes you have prior knowledge of PL/SQL programming.

The implementation of stored procedures in MySQL 5.0 a huge milestone -- one that is expected to lead

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to widespread enterprise adoption of the already extremely popular MySQL database. If you are serious about building the web-based database applications of the future, you need to get up to speed quickly on how stored procedures work -- and how to build them the right way. This book, destined to be the bible of stored procedure development, is a resource that no real MySQL programmer can afford to do without. In the decade since MySQL burst on the scene, it has become the dominant open source database, with capabilities and performance rivaling those of commercial RDBMS offerings like Oracle and SQL Server. Along with Linux and PHP, MySQL is at the heart of millions of applications. And now, with support for stored procedures, functions, and triggers in MySQL 5.0, MySQL offers the programming power needed for true enterprise use. MySQL's new procedural language has a straightforward syntax, making it easy to write simple programs. But it's not so easy to write secure, easily maintained, high-performance, and bug-free programs. Few in the MySQL world have substantial experience yet with stored procedures, but Guy Harrison and Steven Feuerstein have decades of combined expertise. In *MySQL Stored Procedure Programming*, they put that hard-won experience to good use. Packed with code examples and covering everything from language basics to application building to advanced tuning and best

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practices, this highly readable book is the one-stopguide to MySQL development. It consists of four major sections: MySQL stored programming fundamentals -- tutorial, basicstatements, SQL in stored programs, and error handling Building MySQL stored programs -- transaction handling,built-in functions, stored functions, and triggers MySQL stored programs in applications -- using storedprograms with PHP, Java, Perl, Python, and .NET (C# and VB.NET) Optimizing MySQL stored programs -- security, basic andadvanced SQL tuning, optimizing stored program code, and programmingbest practices A companion web site contains many thousands of lines of code, that youcan put to use immediately. Guy Harrison is Chief Architect of Database Solutions at Quest Softwareand a frequent speaker and writer on MySQL topics. Steven Feuerstein isthe author of Oracle PL/SQL Programming, the classic reference for Oracle stored programming for more than ten years. Both have decades of experience as database developers, and between them they have authored a dozen books.

PL/SQL, integrated with the Oracle database, is the procedural extension of SQL. This book is for PL/SQL beginners. When they finish reading the book and trying its examples, they would have equipped themselves with basic PL/SQL skills to start writing PL/SQL programs in a real-world

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development project. The second edition has three new chapters (Records & Collection, Privileges, and PL/SQL in Java), and five new topics added in existing chapters (Transaction, DDL statements, Stored Programs, Package, and Trigger)

Teaches all the Oracle PL/SQL skills needed to start developing PL/SQL fast, through hundreds of extensive exercises, examples, and projects.

Find tips for creating efficient PL/SQL code If you know a bit about SQL, this book will make PL/SQL programming painless! The Oracle has spoken—you need to get up to speed on PL/SQL programming, right? We predict it'll be a breeze with this book!

You'll find out about code structures, best practices, and code naming standards, how to use conditions and loops, where to place PL/SQL code in system projects, ways to manipulate data, and more.

Discover how to Write efficient, easy-to-maintain code Test and debug PL/SQL routines Integrate SQL and PL/SQL Apply PL/SQL best practices Use new features introduced in Oracle 9i and 10g

PL/SQL is the Oracle Procedural Language extension of SQL. PL/SQL is integrated within the Oracle database. A PL/SQL program can have both SQL statements and procedural statements. In the program, the SQL statements are used to access sets of data stored in a database, while the procedural statements are used to process individual piece of data and control the program flow, by

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applying, for example, the PL/SQL's if-then-else and looping structures. This book, Oracle PL/SQL Programming Fundamentals By Examples, is for PL/SQL beginners. If you have no prior or limited skill of PL/SQL, and you want to learn the Oracle PL/SQL programming language the practical way, then this book is perfect for you. When you finish reading the book and trying its examples, you would have equipped yourself with PL/SQL fundamental skills to start writing some PL/SQL programs for a real-world development project. Source codes listing of the examples are included in the Appendix of the book.

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?

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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"O'Reilly Media, Inc."
Learn how to most effectively use PL/SQL programming language with one of the most popular and widely-used software programs in large companies today -- Oracle 11g. ORACLE 11G: PL/SQL PROGRAMMING & ORACLE CD, 2E uses Oracle 11g to provide an overview of the PL/SQL programming language from a developer's perspective. The author begins with a step-by-step expanded introduction to fundamental PL/SQL

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concepts before progressing to the writing and testing of PL/SQL code. This edition also covers more advanced topics, such as Dynamic SQL and code tuning, as well as developments in bulk processing, compound triggers, PL/SQL compiler features and hiding source code. Updates reflect the latest Oracle 11g release with the most recent figures and examples using the user-friendly SQL Developer tool. A wealth of real-world examples, a straightforward presentation, and accompanying Oracle CD make this book is an invaluable resource in preparing for the new Oracle Certification exam or mastering the PL/SQL programming language with Oracle. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This integrated learning solution teaches all the Oracle PL/SQL skills you need, hands-on, through real-world labs, extensive examples, exercises, and projects! Completely updated for Oracle 11g, Oracle PL/SQL by Example , Fourth Edition covers all the fundamentals, from PL/SQL syntax and program control through packages and Oracle 11g's significantly improved triggers. One step at a time, you'll walk through every key task, discovering the most important PL/SQL programming techniques on your own. Building on your hands-on learning, the authors share solutions that offer deeper insights and proven best practices. End-of-chapter projects bring together all the techniques you've learned, strengthening your understanding through real-world practice. This book's approach fully reflects the authors' award-winning experience teaching PL/SQL

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programming to professionals at Columbia University. New database developers and DBAs can use its step-by-step instructions to get productive fast; experienced PL/SQL programmers can use this book as a practical solutions reference. Coverage includes • Mastering basic PL/SQL concepts and general programming language fundamentals, and understanding SQL's role in PL/SQL • Using conditional and iterative program control techniques, including the new CONTINUE and CONTINUE WHEN statements • Efficiently handling errors and exceptions • Working with cursors and triggers, including Oracle 11g's powerful new compound triggers • Using stored procedures, functions, and packages to write modular code that other programs can execute • Working with collections, object-relational features, native dynamic SQL, bulk SQL, and other advanced PL/SQL capabilities • Handy reference appendices: PL/SQL formatting guide, sample database schema, ANSI SQL standards reference, and more The authors have revised and updated this bestseller to include both the Oracle8i and new Oracle9i Internet-savvy database products.

"In the fundamentals module, Oracle ACE Director Dan Hotka teaches developers how to work with existing code and create new programs. Along the way, students will learn both conditional and looping syntax and techniques, error handling and error processing, plus how to work with script files, procedures, functions and packages (a collection of procedures and functions). In the advanced module, Dan demonstrates how to take advantage of better options for performance, gain

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knowledge about the newer features of the language, as well as actually work with these same features in hands-on lab exercises. The students will learn the latest features of PL/SQL collections, triggers, and a variety of compiler features such as conditional compilation, result_cache/deterministic features for functions, autonomous transactions, optimizing compiler features, and more. Dan covers additional exception processing useful for collections. The advanced lessons include useful extensions to the error processing part with a clever use of database triggers. This advanced lessons also covers a variety of PL/SQL performance tips and the tuning and debugging tools for the PL/SQL programming environment. This LiveLessons course contains hands-on lab exercises throughout, and three common tools are used for demonstration, including SQL*Plus, Toad, and SQL*Developer. Students can use the Oracle PL/SQL development tool of their choice to do the hands-on labs with these lessons. All examples work with Oracle10, Oracle11, and Oracle12 databases, but the concepts and most of the tips apply to any Oracle database."--Resource description page.

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

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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

Be more productive with the Oracle PL/SQL language. The fifth edition of this popular pocket reference puts the syntax of specific PL/SQL language elements right at your fingertips, including features added in Oracle Database 12c. Whether you're a developer or database administrator, when you need answers quickly, the Oracle PL/SQL Language Pocket Reference will save you hours of frustration with concise summaries of: Fundamental language elements, such as block structure, datatypes, and declarations Statements for program control, cursor management, and exception handling Records, procedures, functions, triggers, and packages Execution of PL/SQL functions in SQL Compilation options, object-oriented features, collections, and Java integration This handy pocket reference is a perfect companion to Steven Feuerstein and Bill Pribyl's bestselling Oracle PL/SQL Programming.

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Based on John Patrick's hands-on SQL IT professionals at the University of California, Berkeley, this book shows exactly how to retrieve the data you want, when you need it, in any application. This 2nd edition is completely updated to include Oracle 9i and Access 2000.

This book is the definitive reference on PL/SQL, considered throughout the database community to be the best Oracle programming book available. Like its predecessors, this fifth edition of Oracle PL/SQL Programming covers language fundamentals, advanced coding techniques, and best practices for using Oracle's powerful procedural language.

Thoroughly updated for Oracle Database 11g Release 2, this edition reveals new PL/SQL features and provides extensive code samples, ranging from simple examples to complex and complete applications, in the book and on the companion website. This indispensable reference for both novices and experienced Oracle programmers will help you: Get PL/SQL programs up and running quickly, with clear instructions for executing, tracing, testing, debugging, and managing PL/SQL code Optimize PL/SQL performance with the aid of a brand-new chapter in the fifth edition Explore datatypes, conditional and sequential control statements, loops, exception handling, security features, globalization and localization issues, and the PL/SQL architecture Understand and use new Oracle Database 11g features, including the edition-

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based redefinition capability, the function result cache, the new CONTINUE statement, fine-grained dependency tracking, sequences in PL/SQL expressions, supertype invocation from subtypes, and enhancements to native compilation, triggers, and dynamic SQL Use new Oracle Database 11g tools and techniques such as PL/Scope, the PL/SQL hierarchical profiler, and the SecureFiles technology for large objects Build modular PL/SQL applications using procedures, functions, triggers, and packages Annotation This pocket reference condenses the most vital information from Oracle PL/SQL programming into an accessible quick reference that summarises the basics of PL/SQL - block structure, fundamental language elements, data structures, control statements, and use of procedures, functions and packages.

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

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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 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.

Ramp Up Your PL/SQL Programming Skills Master PL/SQL through the hands-on exercises, extensive examples, and real-world projects inside this Oracle Press guide. Filled with best practices, Oracle Database 11g PL/SQL Programming Workbook covers all the latest features and enhancements of the language. Mastery checks at the end of each chapter reinforce the material covered, and sample code from the book is available for download. Even

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experienced Oracle professionals will benefit from this practical resource. Understand the Oracle development architecture and the mechanics of connections Work with data types, structures, blocks, cursors, and PL/SQL semantics Write, deploy, and use functions, procedures, and packages Manage transactions and more Use dynamic SQL statements in real-world applications Support online transaction processing and data warehousing applications with external tables Find syntax samples and best practices to solve problems Write, deploy, and use object types For a complete list of Oracle Press titles, visit www.OraclePressBooks.com

Start developing applications with Oracle PL/SQL-fast! This integrated book-and-Web learning solution teaches all the Oracle PL/SQL skills you need, hands on, through real-world labs, extensive examples, exercises, projects, and a complete Web-based training site. Oracle PL/SQL by Example, Third Edition covers Oracle 10G and all the fundamentals: Master PL/SQL syntax, iterative and conditional control, scoping, anchored datatypes, cursors, triggers, security, tables, procedures, functions, packages and Oracle-supplied packages-plus powerful new techniques for working with exceptions, cursors, collections, and records. Your free Web-based training module includes a Virtual Study Lounge where you can interact with other

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learners, work on new projects, and get updates! Totally integrated with a FREE, state-of-the-art Oracle 10G learning Web site! Every Prentice Hall Oracle Interactive Workbook is fully integrated with its own exclusive Web site, giving you all this and more: "Test Your Thinking" project solutions and detailed explanations Additional self-review exercises with instant feedback and explanations An exclusive Virtual Study Lounge where you can interact with other students! Just the facts! No endless, boring discussions here! You'll learn hands on, through practical exercises, self-review questions, and real-world answers. Exclusive "Test Your Thinking" projects guarantee you'll go beyond rote knowledge to really master the subject! It's an integrated learning system that's proven to work!

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