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Write powerful queries using
as much of the feature-rich
Oracle SQL language as
possible, progressing beyond

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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

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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

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as:Pivoting rows to columns
and columns to rowsRecursion
in SQL with MODEL and WITH
clausesAnswering Top-N
questionsForecasting with
linear regressions Row
pattern matching to group or
distribute rowsUsing

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MATCH_RECOGNIZE as a row processing engineThe process of starting from simpler statements in SQL, and gradually working those statements stepwise into more complex statements that deliver powerful results, is

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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

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through stepwise
refinementApply set-based
thinking to process more
data in fewer queriesMake
cross-row calculations with
analytic functionsSearch for
patterns across multiple
rows using row pattern

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matchingBreak 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

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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

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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. For the past ten years,

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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

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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

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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,

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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

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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

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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

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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

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PL/SQL mastery. A companion web site contains many more examples and additional technical content for enhanced learning.

This integrated learning solution teaches all the Oracle PL/SQL skills you

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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

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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

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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,

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strengthening your understanding through real-world practice. This book's approach fully reflects the authors' award-winning experience teaching PL/SQL programming to professionals at Columbia University. New

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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.

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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

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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

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capabilities • Handy reference appendices: PL/SQL formatting guide, sample database schema, ANSI SQL standards reference, and more

Written by one of the world's leading experts on

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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. A Guide to Oracle's PL/SQL

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Language Fundamentals

Oracle PL/SQL in 10 Minutes,
Sams Teach Yourself

Oracle9i PL/SQL Programming

Murach's Oracle SQL and PL
SQL for Developers

Oracle® PL/SQL"by Example

Oracle PL/SQL Built-ins

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Pocket Reference

The authors have revised and updated this bestseller to include both the Oracle8i and new Oracle9i Internet-savvy database products.

PL/SQL is the Oracle Procedural Language extension of SQL. PL/SQL is integrated within the Oracle

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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

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program flow, by 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

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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

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listing of the examples are included in the Appendix of the book.

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more Practice all types of subqueries, such as correlated and scalar subqueries, and learn about set operators and hierarchical queries Build effective queries and learn fundamental Oracle SQL Developer and SQL*Plus skills Make the most of the Data Dictionary and create tables,

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views, indexes, and sequences
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privileges, roles, and synonyms
Explore Oracle 11g's advanced data
warehousing features Learn many
practical tips about performance
optimization, security, and
architectural solutions Avoid common

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pitfalls and understand and solve common mistakes For every database developer, administrator, designer, or architect, regardless of experience! Oracle is the most popular database management system in use today, and PL/SQL plays a pivotal role in current and projected Oracle products and

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applications. PL/SQL is a programming language providing procedural extensions to the SQL relational database language and to an ever-growing number of oracle development tools. originally a rather limited tool, PL/SQL became with Oracle7 a mature and effective

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language for developers. now, with the introduction of Oracle8, PL/SQL has taken the next step towards becoming a fully realized programming language providing sophisticated object-oriented capabilities. Steven Feuerstein's Oracle PL/SQL Programming is a comprehensive

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guide to building applications with PL/SQL. That book has become the bible for PL/SQL developers who have raved about its completeness, readability, and practicality. Built-in packages are collections of PL/SQL objects built by Oracle Corporation and stored directly in the Oracle

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database. The functionality of these packages 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

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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

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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 first edition of Oracle PL/SQL Programming contained a chapter on

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Oracle's built-in packages. but there is much more to say about the basic PL/SQL packages than Feuerstein could fit in his first book. In addition, now that Oracle8 has been released, there are many new Oracle8 built-in packages not described in the PL/SQL book. There are also packages

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extensions for specific oracle environments such as distributed database. hence this book.Oracle Built-in Packages pulls together information about how to use the calling interface (API) to Oracle's Built-in Packages, and provides extensive examples on using the built-in packages

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effectively. The windows diskette included with the book contains the companion guide, an online tool developed by RevealNet, Inc., that provides point-and-click access to the many files of source code and online documentation developed by the authors. The table of contents

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follows: Preface
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Executing Dynamic SQL and PL/SQL
Inter-session Communication
User Lock and Transaction Management
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Packages Miscellaneous Packages
Part III: Server Management Packages
Managing Session Information
Managing Server Resources Job
Scheduling in the Database Part IV:
Distributed Database Packages

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Conflict Resolution Deferred
Transactions and Remote Procedure
Calls Appendix. What's on the
companion disk?

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Programming

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to solving real problems with PL/SQL stored procedures, then this is the book for you.

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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

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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

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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

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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

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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

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DBMS_ALERT and DBMS_PIPE Call external procedures through Oracle Net Services and PL/SQL wrappers
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examples throughout Result-caching of invoker's right functions for better performance Extended support for PL/SQL-only data types in dynamic SQL, OCI, and JDBC Security enhancements, including

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improved privilege control,
and Invisible Columns Other
topics covered Mastering
basic PL/SQL concepts and
language fundamentals, and
understanding SQL's role in
PL/SQL Using conditional and***

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***iterative program control,
including CONTINUE and
CONTINUE WHEN Efficiently
handling errors and
exceptions Working with
cursors and triggers,
including compound triggers
Using stored procedures,***

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functions, and packages to write modular code that other programs can run Working with collections, object-relational features, native dynamic SQL, bulk SQL, and other advanced features. Murach's Oracle SQL and PL:

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***SQL for Developers By Joel
Murac***

***This pocket reference
provides quick-reference
information that will help you
use Oracle Corporation's
extensive set of built-in
functions and packages,***

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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

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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

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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

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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

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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

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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

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***(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***

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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

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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

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(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

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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

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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

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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

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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

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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

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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

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packages from a SQL statement), as well as the exceptions, constants, and data structures defined in the packages.

PL/SQL, Oracle's powerful procedural language, has been the cornerstone of

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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

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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

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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

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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

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***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***

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***andstatistics gathering to be
scheduled for regular
execution Using Oracle's built-
in packages (DBMS_CRYPT0,
DBMS_RLS, DBMS_FGA, DBMS
_RANDOM,DBMS_SCHEDULING
) as a base, the book
describes ways of building on***

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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

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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 special database administration features. Even

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

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Mastering the Full Power of
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Programming for PL/SQL
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for Oracle Developers and
DBAs***

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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

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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

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prior knowledge of PL/SQL programming. From the authorized Oracle Press comes a complete guide to developing robust PL/SQL applications. The book contains new information on development tools, datatypes, SQL commands and functions, and much more. The CD-ROM contains sample code plus a sampling of development

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environments covered in the book.

PL/SQL is an extension of SQL for the Oracle Database. Learn PL/SQL in 1 Day serves as beginner guide for a crash course in PL/SQL development. The book contains tons of examples that prepare you for real-world development project. This book is considered the best Oracle PL/SQL

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programming guide by the Oracle community. The books gives clear instructions for executing, tracing, testing, debugging, and managing PL/SQL code. Here is what you will learn Chapter 1: Introduction What Is PL/SQL? Architecture of PL/SQL Advantage of Using PL/SQL Basic Difference between SQL and PL/SQL

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Block Structure Types of PL/SQL block

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and usage of variables in program

Commenting Codes Chapter 4: Data Types

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Types Record Type Collection Constructor
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Collection Methods Chapter 6: Decision
Making Statements Introduction to Decision
Making Statements IF-THEN Statement IF-
THEN-ELSE Statement IF-THEN-ELSIF
Statement NESTED-IF Statement CASE*

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Statement SEARCHED CASE Statement
Chapter 7: Loops Introduction to Loops
Concept Loop Control Statements Types of
Loop in PL/SQL Nested Loops Labelling of
Loops Chapter 8: Subprograms: Procedures
and Functions Terminologies in PL/SQL
Subprograms Procedure Function
Similarities between Procedure and Function

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Overloading Package Information UTL
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Trigger Creation :NEW and :OLD Clause
INSTEAD OF Trigger Compound Trigger
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Constructors Inheritance in Object Type
Equality of PL/SQL Objects Chapter 14:*

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NDS DBMS_SQL for Dynamic SQL
Chapter 15: Nested Blocks Nested Block
Structure Scopes in Nested Block Chapter
16: Identifiers Properties of Identifiers
Naming Conventions of Identifiers
Variables - An Identifier Declaration of
Variables Data storing in Variables*

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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

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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,

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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

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(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.

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12c

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Security, Scheduling, Performance & More
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**"Learning Oracle PL/SQL"
introduces PL/SQL in a way**

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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

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application--the development of a library's electronic catalog system--runs through the chapters.

Annotation This pocket reference condenses the most vital information from Oracle PL/SQL programming into an

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**accessible quick reference
that summarises the basics of
PL/SQL - block structure,
fundamental language
elements, data structures,
control statements, and use
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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

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related tables Insert, update,
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alter database tables Work
with views, stored
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