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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 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. Understanding and implementing the database  
management systems concepts in SQL and PL/SQL KEY FEATURES ? Practice  
SQL concepts by writing queries and perform your own data  
visualization and analysis. ? Gain insights on Entity Relationship  
Model and how to implement in your business environment. ? Series of  
question banks and case-studies to develop strong hold on RDBMS  
concepts. DESCRIPTION Relational Database Management Systems In-Depth  
brings the fundamental concepts of database management systems to you  
in more elaborated learning with conceptual clarity of RDBMS. This  
book brings an extensive coverage of theoretical concepts on types of  
databases, concepts of relational database management systems,

normalization and many more. You will explore exemplification of Entity Relational Model concepts that would teach the readers to design accurate business systems. Backed with a series of examples, you can practice the fundamental concepts of RDBMS and SQL queries including Oracle's SQL queries, MySQL and SQL Server. In addition to the illustration of concepts on SQL, there is an implementation of crucial business rules using PL/SQL based stored procedures and database triggers. Finally, by the end of this book there is a mention of the useful data oriented technologies like Big Data, Data Lake etc and the crucial role played by such techniques in the current data driven decisions. Throughout the book, you will come across key learnings and key terms that will help you to understand and revise the concepts learned. Along with this, you will also come across questions and case studies by the end of every chapter to prepare for job interviews and certifications.

WHAT YOU WILL LEARN ? Depiction of Entity Relationship Model with various business case studies. ? Illustration of the normalization concept to make the database stronger and consistent. ? Designing the successful client-server applications using PL/SQL concepts. ? Learning the concepts of OODBS and Database Design with Normalization and Relationships. ? Knowing various techniques regarding Big Data technologies like Hadoop, MapReduce and MongoDB.

WHO THIS BOOK IS FOR This book is meant for academicians, students, developers and administrators including beginners and readers experienced in some other programming languages and database systems.

TABLE OF CONTENTS

1. Database Systems Architecture
2. Database Management System Models
3. Relational query languages
4. Relational Database Design
5. Query Processing and Optimization
6. Transaction Processing
7. Implementation Techniques
8. SQL Concepts
9. PL/SQL Concepts
10. Collections in PL/SQL
11. What Next?

This book teaches all the Oracle PL/SQL skills needed through hands on, real-world labs, extensive examples, exercises, and projects. The workbook provides detailed examples and problems that supplement and leverage material presented in Oracle Database 11g PL/SQL Programming, and uses the same video store example throughout. The book can be used as a stand-alone learning tool filled with practical examples or in combination with the programming title. All of the enhancements and improvements made to PL/SQL with the release of Oracle Database 11g are covered in the book. Even experienced Oracle professionals will benefit from this practical guide.

SQL\*Plus is an interactive query tool that's ubiquitous in the Oracle world. It's available at every Oracle site—from the largest data warehouse to the smallest single-user system—and it's a critical tool for virtually every Oracle user. The third edition of this popular pocket guide provides quick reference information on SQL\*Plus syntax and format elements, including new Oracle Database 10g features. It concisely describes interacting with SQL\*Plus, formatting both text and HTML

reports with SQL\*Plus, and tuning SQL queries using both optimizer hints and the plan table. This new edition covers browser-based iSQL\*Plus, the ability to generate HTML, new commands and SET options, and much more. It also contains expanded information on the SQL statements most commonly issued from SQL\*Plus (Select, Insert, Update, Delete, Merge, Commit, Rollback, Savepoint, Set Transaction) and adds coverage of new SQL features such as the Oracle Database 10g Select statement's Model clause, flashback queries, partition outer joins, and DBMS\_XPLAN. Book jacket. 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 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](http://www.OraclePressBooks.com) If you work with Oracle in any capacity, whether as a Java programmer, Database Administrator, or PL/SQL programmer, chances are good that you write SQL statements to query for data within the database. Knowledge of SQL, and particularly of Oracle's implementation of SQL, is the key to writing good queries in a timely manner. In this book, authors Sanjay Mishra and Alan Beaulieu share their knowledge of Oracle SQL, and show you many creative techniques that you can use to advantage in your own applications. Book jacket. The World's #1 Hands-On Oracle SQL Workbook—Fully Updated for Oracle 11g Crafted for hands-on learning and tested in classrooms worldwide, this book illuminates in-depth every Oracle SQL technique you'll need. From the simplest query fundamentals to regular expressions and with newly added coverage of Oracle's powerful new SQL Developer tool, you will focus on the tasks that matter most. Hundreds of step-by-step, guided lab exercises will systematically strengthen your expertise in writing effective, high-performance SQL. Along the way, you'll acquire a powerful arsenal of useful skills—and an extraordinary library of solutions for your real-world challenges with Oracle SQL. Coverage includes 100% focused on Oracle SQL for Oracle 11g, today's #1 database platform—not “generic” SQL! Master all core SQL techniques including every type of join such as equijoins, self joins, and outer joins Understand Oracle functions in depth, especially

character, number, date, timestamp, interval, conversion, aggregate, regular expressions, analytical, and 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, views, indexes, and sequences Secure databases using Oracle privileges, roles, and synonyms Explore Oracle 11 g's advanced data warehousing features Learn many practical tips about performance optimization, security, and architectural solutions Avoid common pitfalls and understand and solve common mistakes For every database developer, administrator, designer, or architect, regardless of experience! 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. Introduction to SQL and PL/SQL is today's most hands-on and easy-to-understand resource for learning the increasingly important SQL and PL/SQL databases, and preparing for the first Oracle certification exam. Two sample databases build on concepts taught in each chapter and allow readers to practice what they learn without having to suffer through a complex and potentially difficult design process. 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 environments covered in the book. The book offers a systematic knowledge of Oracle SQL and PL/SQL to help students exploit the capabilities of the database in an effective and efficient manner. The book follows a step-by-step approach to the subject using real-world cases, examples and exercises in order to make it an easy, interesting and complete self-study guide. The book can be used for practical classes on Oracle version 8.0 onwards. The availability of an authorized Oracle database in conjunction with the book is sufficient to learn Oracle commands and syntaxes. It is designed to address the need of the laboratory classes on Oracle for the students of Computer Science, Information Technology and Computer Applications. The book will also be useful to professionals and academics alike for conducting training programmes on Oracle database. The book teaches the basics of the Oracle database from a beginner's perspective to the advanced concepts using a hands-on approach. Each and every concept has been elaborated with suitable practical examples along with code for clear and precise understanding of the topic. Using a practical approach, this new edition of the book covers the detailed introspection of pluggable databases and explains practically the various new features incorporated in the new 12c version. It also explains how to retrieve, add, update and delete data in the Oracle database using SQL, SQL\*PLUS and PL/SQL. In the process, it discusses

the various data types and built-in functions of Oracle, as well as the sorting of records and the table operations. The text also includes coverage of advanced queries using special operators, Oracle security, indexing, and stored functions and procedures. The book is suitable for undergraduate engineering students of Computer Science and Information Technology, B.Sc. (Computer Science/IT), M.Sc. (Computer Science/IT) and students of Computer Applications (BCA, MCA, PGDCA, and DCA). Besides, the book can be used as a reference by professionals pursuing short-term courses on Oracle Database and students of Oracle Certified Courses.

**KEY FEATURES**

- Based on latest Oracle Database 12c: It explains the various features introduced with the new Oracle Database 12c software.
- Hands-on methodology: Its objective is to impart practical skills using hands-on methodology.
- Elaborate Practical Examples: Each topic begins with appropriate theory and concept followed by relevant examples for better understanding of the concepts.
- Commands tested and executed on Oracle Database software: All the programming examples have been tested on actual Oracle Database software. In this compact book, Steven Feuerstein, widely recognized as one of the world's leading experts on the Oracle PL/SQL language, distills his many years of programming, teaching, and writing about PL/SQL into a set of best practices-recommendations for developing successful applications. Covering the latest Oracle release, Oracle Database 11gR2, Feuerstein has rewritten this new edition in the style of his bestselling Oracle PL/SQL Programming. The text is organized in a problem/solution format, and chronicles the programming exploits of developers at a mythical company called My Flimsy Excuse, Inc., as they write code, make mistakes, and learn from those mistakes-and each other. This book offers practical answers to some of the hardest questions faced by PL/SQL developers, including: What is the best way to write the SQL logic in my application code? How should I write my packages so they can be leveraged by my entire team of developers? How can I make sure that all my team's programs handle and record errors consistently? Oracle PL/SQL Best Practices summarizes PL/SQL best practices in nine major categories: overall PL/SQL application development; programming standards; program testing, tracing, and debugging; variables and data structures; control logic; error handling; the use of SQL in PL/SQL; building procedures, functions, packages, and triggers; and overall program performance. This book is a concise and entertaining guide that PL/SQL developers will turn to again and again as they seek out ways to write higher quality code and more successful applications. "This book presents ideas that make the difference between a successful project and one that never gets off the ground. It goes beyond just listing a set of rules, and provides realistic scenarios that help the reader understand where the rules come from. This book should be required reading for any team of Oracle database

professionals." --Dwayne King, President, KRIDAN Consulting Structured Query Language has become the standard for generating, manipulating, and retrieving database information. The dramatic increase in the popularity of relational databases, coupled with Oracle's having the largest market share, has created a demand for programmers who can write SQL code correctly and efficiently. This book provides a systematic approach to learning SQL in Oracle. Each chapter is written in a step-by-step manner and includes examples that can be run using Oracle. Using the sample tables and data provided, readers will be able to perform the examples to gain hands-on experience with Oracle programming. Gain an understanding of basic SQL principles. Learn to generate, store, and edit SQL queries in Oracle. Develop joins, subqueries, and correlated subqueries. Work with XML and Oracle databases. Test your SQL knowledge with the exercises at the end of each chapter! 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.

**Master the Underutilized Advanced Features of SQL and PL/SQL** This hands-on guide from Oracle Press shows how to fully exploit lesser known but extremely useful SQL and PL/SQL features?and how to effectively use both languages together. Written by a team of Oracle ACE Directors, *Real-World SQL and PL/SQL: Advice from the Experts* features best practices, detailed examples, and insider tips that clearly demonstrate how to write, troubleshoot, and implement code for a wide variety of practical applications. The book thoroughly explains underutilized SQL and PL/SQL functions and lays out essential development strategies. Data modeling, advanced analytics, database security, secure coding, and administration are covered in complete detail.

**Learn how to:**

- Apply advanced SQL and PL/SQL tools and techniques
- Understand SQL and PL/SQL functionality and determine when to use which language
- Develop accurate data models and implement business logic
- Run PL/SQL in SQL and integrate complex datasets
- Handle PL/SQL instrumenting and profiling
- Use Oracle Advanced Analytics and Oracle R Enterprise
- Build and execute predictive queries
- Secure your data using encryption, hashing, redaction, and masking
- Defend against SQL injection and other code-based attacks
- Work with Oracle Virtual Private Database

Code examples in the book are available for download at [www.MHPProfessional.com](http://www.MHPProfessional.com).

**TAG:** For a complete list of Oracle Press titles, visit [www.OraclePressBooks.com](http://www.OraclePressBooks.com)

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 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

Start developing with Oracle SQL. This book is a one-stop introduction to everything you need to know about getting started developing an Oracle Database. You'll learn about foundational concepts, setting up a simple schema, adding data, reading data from the database, and making changes. No experience with databases is required to get started. Examples in the book are built around Oracle Live SQL, a freely available, online sandbox for practicing and experimenting with SQL statements, and Oracle Express Edition, a free version of Oracle Database that is available for download. A marquee feature of Beginning Oracle SQL for Oracle Database 18c is the small chapter size. Content is divided into easily digestible chunks that can be read and practiced in very short intervals of time, making this the ideal book for a busy professional to learn from. Even just a 15-20 minute block of free time can be put to good use. Author Ben Brumm begins by helping you understand what a database is, and getting you set up with a sandbox in which to practice the SQL that you are learning. From there, easily digestible chapters cover, point-by-point, the different aspects of writing queries to get data out of a database. You'll also learn about creating tables and getting data into the database. Crucial topics such as working with nulls and writing analytic queries are given the attention they deserve, helping you to avoid pitfalls when writing queries for production use. What You'll Learn Create, update, and



delete tables in an Oracle database Add, update, delete data from those database tables Query and view data stored in your database Manipulate and transform data using in-built database functions and features Correctly choose when to use Oracle-specific syntax and features Who This Book Is For Those new to Oracle who are planning to develop software using Oracle as the back-end data store. The book is also for those who are getting started in software development and realize they need to learn some kind of database language. Those who are learning software development on the side of their normal job, or learning it as a college student, who are ready to learn what a database is and how to use it also will find this book useful. Developers using PL/SQL 9i as an environment for corporate applications will find detailed technical information and practical tips in Lakshman's book. Write SQL statements that are more powerful, simpler, and faster using the advanced features of Oracle SQL. This updated second edition includes the newest advanced features: improved data structures (such as more JSON support and more table options), improved automated processes (such as automatic indexing), and improved SQL language extensions (such as polymorphic table functions, SQL macros, and the multilingual engine). Pro Oracle SQL Development is for anyone who already knows Oracle SQL and is ready to take their skills to the next level. This book provides a clearer way of thinking about SQL by building sets, and it provides practical advice for using complex features while avoiding anti-patterns that lead to poor performance and wrong results. Relevant theories, real-world best practices, and style guidelines help you get the most out of Oracle SQL. Many developers, testers, analysts, and administrators use Oracle databases frequently, but their queries are limited because they do not take advantage of Oracle's advanced features. This book inspires you to achieve more with your Oracle SQL statements by creating your own style for writing simple, yet powerful, SQL. It teaches you how to think about and solve performance problems in Oracle SQL, and it covers enough advanced topics to put you on the path to becoming an Oracle expert. What You'll Learn Solve challenging problems with declarative SQL instead of procedural languages Write SQL statements that are large and powerful, but also elegant and fast Create development environments that are simple, scalable, and conducive to learning Visualize and understand SQL more intuitively Apply advanced syntax, objects, and architecture Avoid SQL anti-patterns that accumulate technical debt Tune SQL statements with multiple strategies that can significantly improve performance Who This Book Is For Developers, testers, analysts, and administrators who want to harness the full power of Oracle SQL to solve their problems as simply and as quickly as possible; traditional database professionals looking for new ways of thinking about the language they have used for so long; and modern full stack developers who need an explanation of how a

database can be much more than simply a place to store data Oracle is one of the most widely used database systems in the world, and MySQL is the world's most popular open source database system. This book is an example-driven guide for beginners and intermediates to Oracle and MySQL databases. It provides thorough introduction to Database Design, SQL, PL/SQL, and much more. This book enriched with the following key concepts with code illustrations.

RDBMS Concepts and Usages Database Design and Implications Database Models and Representations Database Keys and Constrains Normalization and De-normalization installation and Configuration of Oracle and MySQL Data definition Language SQL Commands Data Access using Data Manipulation Language SQL Commands Transaction in Database Database Object: Table, View, Synonym, Sequence Built-in Functions and Programs PL/SQL, Triggers, Stored Procedures Basic Administration, Privilege Management, Backup and Restore Databases Beginning PL/SQL is a fast-paced and blissfully short introduction to Oracle's PL/SQL language. PL/SQL is the built-in language that every Oracle developer and database administrator simply must know. The book shows readers how to apply object-oriented PL/SQL to production applications. No other book on PL/SQL does this. It gives the reader practical advice on what works and what doesn't, and advises on the performance tradeoffs between doing work in SQL versus in PL/SQL. This book gets readers up-to-speed on the core of the language without wasting time on esoteric and seldom used syntax. The authors teach all the Oracle PL/SQL skills readers need, through hands-on, real-world labs, exercises, projects, and a great Web-based training site! Coverage includes every key Oracle PL/SQL concept, including: the basics of structured programming; PL/SQL structure and syntax; iterative control; scoping and anchored datatypes. This in-depth guide explains how to use SQL to work with data in a database, and how to automate complicated tasks using PL/SQL. One of the most important challenges faced by Oracle database administrators and Oracle developers is the need to tune SQL statements so that they execute efficiently. Poorly tuned SQL statements are one of the leading causes of substandard database performance and poor response time. SQL statements that perform poorly result in frustration for users, and can even prevent a company from serving its customers in a timely manner. In this book, Mark Gurry shares his in-depth knowledge of Oracle's SQL statement optimizers. Mark's knowledge is the result of many hard-fought tuning battles during his many years of providing Oracle tuning services to clients. Mark provides insights into the workings of the rule-based optimizer that go well beyond what the rules tell you. Mark also provides solutions to many common problems that occur with both the rule-based and cost-based optimizers. In addition to the specific problem/solution scenarios for the optimizers, Mark provides a number of handy SQL tuning tips. He discusses the various optimizer hints, telling you when they can be

used to good effect. Finally, Mark discusses the use of the DBMS\_STATS package to manage database statistics, and the use of outlines to specify execution plans for SQL statements in third-party applications that you can't otherwise modify. 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. 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 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. 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 rowsRecursion in SQL with MODEL and WITH clausesAnswering Top-N questionsForecasting with linear regressions Row pattern matching to group or distribute rowsUsing 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 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 competitors. What You Will LearnTake full advantage of advanced and modern features in Oracle SQL Recognize when modern SQL constructs can help create better applicationsImprove SQL query building skills 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 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 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 authors have revised and updated this bestseller to include both the Oracle8i and new Oracle9i Internet-savvy database products. 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. 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 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) 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. 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 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 Oracle's 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 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. "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. CD-ROM contains: Practice database -- Sample scripts reference in text. 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 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. 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 the job done. Covers the most common PL/SQL programming problems Presents solutions in ready-to-use format Stays short and to-the-point

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