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In just 24 lessons of one hour or less, you will learn professional techniques to design and build efficient databases and query them to extract useful information. Using a straightforward, step-by-step approach, each lesson builds on the previous one, allowing you to learn the essentials of ANSI SQL from the ground up. Example code demonstrates the authors' professional techniques, while exercises written for MySQL offer the reader hands-on learning with an open-source database. Included are advanced techniques for using views, managing transactions, database administration, and extending SQL. Step-by-step instructions carefully walk you through the most common SQL tasks. Q&As, Quizzes, and Exercises at the end of each chapter help you test your knowledge. Notes and Tips point out shortcuts and solutions. New terms are clearly defined and explained. Learn how to... Use SQL-2003, the latest standard for the Structured Query Language Design and deploy efficient, secure databases Build advanced queries for information retrieval Sort, group, and summarize information for best presentation Tune databases and queries for maximum performance Understand database administration and security techniques For more than ten years the authors have studied, applied, and documented the SQL standard and its application to critical database systems. Ryan Stephens and Ron Plew are entrepreneurs, speakers, and cofounders of Perpetual Technologies, Inc. (PTI), a fast-growing IT management and consulting firm which specializes in database technologies. They taught database courses for Indiana University-Purdue University in Indianapolis for five years and have authored more than a dozen books on Oracle, SQL, database design, and the high availability of critical systems. Arie D. Jones is Senior SQL Server database administrator and analyst for PTI. He is a regular speaker at technical events and has authored several books

and articles. Category: Database Covers: ANSI SQL User Level: Beginning-Intermediate Register your book at informit.com/title/9780672330186 for convenient access to updates and corrections as they become available.

New Oracle database administrators can get off the ground running. This book helps you develop the ability to think on your feet and move focus in an instant from arcane syntax details to broad, corporate issues. Along the way, you will see how to create your first database and implement best practices to ensure a well-running database system. What makes Oracle DBA Mentor different is that it also teaches you how to obtain answers that are not found in this or other books. Focus is given to creating a test bed and running test cases to examine hypotheses and prove out solutions so you can be sure they work in production. Attention is given to navigating product documentation and networking in forums and social media to build your skills and a network to draw on when solving problems under pressure. There are chapters of step-by-step technical content as well as coverage of essential skills to succeed as a DBA no matter which database engine you administer. By the time you are done reading this book, you will have confidence to face many of the situations thrown in your direction. You will know where to go for the answers you don't yet know that you need. You'll be able to work and troubleshoot under pressure. You'll know how to create a database, institute backup and recovery procedures, secure the database and its valuable corporate data, and acquire more knowledge as needed so you can run a database to meet the needs of your organization. What You'll Learn Install Oracle Database with best practices Implement backup and recovery procedures Understand the fundamentals of databases and data security Find answers to technical problems using Oracle documentation, Oracle Support, and other resources Patch

and upgrade an Oracle database Who This Book Is For The novice database administrator who wants help getting off the ground with their DBA career, and in building the skills to let that career flourish in the long term. Mid-level DBAs will also find the book helpful as they try to grow their career to the next level. While the book is geared toward the Oracle platform, database administrators from other platforms can benefit from the soft skills covered in this book.

Oracle system performance inefficiencies often go undetected for months or even years--even under intense scrutiny--because traditional Oracle performance analysis methods and tools are fundamentally flawed. They're unreliable and inefficient. Oracle DBAs and developers are all too familiar with the outlay of time and resources, blown budgets, missed deadlines, and marginally effective performance fiddling that is commonplace with traditional methods of Oracle performance tuning. In this crucial book, Cary Millsap, former VP of Oracle's System Performance Group, clearly and concisely explains how to use Oracle's response time statistics to diagnose and repair performance problems. Cary also shows how "queueing theory" can be applied to response time statistics to predict the impact of upgrades and other system changes. Optimizing Oracle Performance eliminates the time-consuming, trial-and-error guesswork inherent in most conventional approaches to tuning. You can determine exactly where a system's performance problem is, and with equal importance, where it is not, in just a few minutes--even if the problem is several years old. Optimizing Oracle Performance cuts a path through the complexity of current tuning methods, and streamlines an approach that focuses on optimization techniques that any DBA can use quickly and successfully to make noticeable--even dramatic--improvements. For example, the one thing database users care most about is response time. Naturally,

DBAs focus much of their time and effort towards improving response time. But it is entirely too easy to spend hundreds of hours to improve important system metrics such as hit ratios, average latencies, and wait times, only to find users are unable to perceive the difference. And an expensive hardware upgrade may not help either. It doesn't have to be that way. Technological advances have added impact, efficiency, measurability, predictive capacity, reliability, speed, and practicality to the science of Oracle performance optimization. *Optimizing Oracle Performance* shows you how to slash the frustration and expense associated with unraveling the true root cause of any type of performance problem, and reliably predict future performance. The price of this essential book will be paid back in hours saved the first time its methods are used.

Using PL/SQL for Oracle Database 21c, you can build solutions that deliver unprecedented performance and efficiency in any environment, including the cloud. *Oracle PL/SQL by Example, Sixth Edition*, teaches all the PL/SQL skills you'll need, through real-world labs and extensive examples. Now fully updated for the newest version of PL/SQL 21c, it covers everything from basic syntax and program control through the latest optimization and tuning enhancements. Step by step, you'll walk through every key task, mastering today's most valuable Oracle 21c PL/SQL programming techniques on your own. Start by downloading the supporting schema and exercises from informit.com/title/9780138062835. Once you've done an exercise, the author doesn't just present the answer: She offers an in-depth discussion introducing deeper insights and modern best practices. This book's approach fully reflects the author's award-winning experience teaching PL/SQL to professionals at Columbia University in New York City. New database developers and DBAs can use it to get productive fast; experienced PL/SQL programmers will find it to be a superb Oracle Database 21c solutions reference. New in This Edition Updated code examples throughout New iteration controls for the FOR LOOP statement, such as stepped range, multiple iterations, collection, and cursor iterations Enhancements for PL/SQL qualified expressions Performance enhancements for PL/SQL functions, such as SQL macro, and better control of the result cache Other Topics Covered Mastering basic PL/SQL concepts and language fundamentals, and understanding SQL's role in PL/SQL Using conditional and iterative program controls Efficiently handling errors and exceptions Working with cursors and triggers, including com-

pound triggers Using stored procedures, 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

Have you ever been faced with a new type of query to write, or been asked to create an unfamiliar database object? In such situations, you have probably wanted a good, solid example upon which to build, and instead have been forced into the drudgery of parsing railroad-style syntax diagrams in Oracle's manual set. This book frees you from that drudgery by providing tested and working examples of SQL used to solve common problems faced by developers and database administrators on a daily basis. When you're under pressure to get results fast, *Oracle SQL Recipes* is there at your side. Example-based, providing quality solutions to everyday problems Respects your time by putting solutions first and keeping discussions short Solves the most commonly encountered SQL problems

A Fully Integrated Study System for OCA Exam 1Z0-052 Prepare for the Oracle Certified Associate Oracle Database 11g Administration I exam with help from this exclusive Oracle Press guide. In each chapter, you'll find challenging exercises, practice questions, a two-minute drill, and a chapter summary to highlight what you've learned. This authoritative guide will help you pass the test and serve as your essential on-the-job reference. Get complete coverage of all OCA objectives for exam 1Z0-052, including: Database architecture Creating an Oracle Database Managing the Oracle instance Configuring and managing the Oracle network Managing database storage structures Administering user security Managing schema objects, data and concurrency, and undo data Implementing Oracle Database security Database maintenance and performance management Backup and recovery Moving data Intelligent infrastructure enhancements On the CD-ROM: One full practice exam that simulates the actual OCA exam Detailed answers and explanations Score report performance assessment tool Complete electronic book Bonus exam available free with online registration

"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.

A guide to SQL covers such topics as retrieving records, metadata queries, working with strings, data arithmetic, date manipulation, reporting and warehousing, and hierarchical queries.

Businesses are gathering data today at exponential rates and yet few people know how to access it meaningfully. If you're a business or IT professional, this short hands-on guide teaches you how to pull and transform data with SQL in significant ways. You will quickly master the fundamentals of SQL and learn how to create your own databases. Author Thomas Nield provides exercises throughout the book to help you practice your newfound SQL skills at home, without having to use a database server environment. Not only will you learn how to use key SQL statements to find and manipulate your data, but you'll also discover how to efficiently design and manage databases to meet your needs. You'll also learn how to: Explore relational databases, including lightweight and centralized models Use SQLite and SQLiteStudio to create lightweight databases in minutes Query and transform data in meaningful ways by using SELECT, WHERE, GROUP BY, and ORDER BY Join tables to get a more complete view of your business data Build your own tables and centralized databases by using normalized design principles Manage data by learning how to INSERT, DELETE, and UPDATE records

*Ideal for anyone who wants to learn SQL programming for Oracle database. *Author has 25 years of teaching experience; 14 years of curriculum development experience; 14 years of experience with the Oracle database. *Book can be used as collateral/handouts for SQL training courses at universities/ high schools.

For all the buzz about trendy IT techniques, data processing is still at the core of our systems, especially now that enterprises all over the world are confronted with exploding volumes of data. Database performance has become a major headache, and most IT departments believe that developers should provide simple SQL code to solve immediate problems and let DBAs tune any bad SQL later. In *The Art of SQL*, author and SQL expert Stephane Faroult argues that this safe approach only leads to disaster. His insightful book, named after *Art of War* by Sun Tzu, contends that writing quick inefficient code is sweeping the dirt under the rug. SQL code may run for 5 to 10 years, surviving several major releases of the database management system and on several generations of hardware. The code must be fast and sound from the start, and that requires a

firm understanding of SQL and relational theory. The Art of SQL offers best practices that teach experienced SQL users to focus on strategy rather than specifics. Faroult's approach takes a page from Sun Tzu's classic treatise by viewing database design as a military campaign. You need knowledge, skills, and talent. Talent can't be taught, but every strategist from Sun Tzu to modern-day generals believed that it can be nurtured through the experience of others. They passed on their experience acquired in the field through basic principles that served as guiding stars amid the sound and fury of battle. This is what Faroult does with SQL. Like a successful battle plan, good architectural choices are based on contingencies. What if the volume of this or that table increases unexpectedly? What if, following a merger, the number of users doubles? What if you want to keep several years of data online? Faroult's way of looking at SQL performance may be unconventional and unique, but he's deadly serious about writing good SQL and using SQL well. The Art of SQL is not a cookbook, listing problems and giving recipes. The aim is to get you-and your manager-to raise good questions.

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.

If you write programs to run against an Oracle database, you spend a lot of time and mental energy writing queries to return the data your programs need. 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, the authors share their knowledge of Oracle SQL, and show you many creative techniques that you can use to advantage in your own applications. This book shows you how to: Leverage Oracle's vast library of built-in SQL functions Query time-based data, and write joins involving date and time ranges Use Oracle SQL's hierarchical query features to deal with data best represented in a tree format Use DECODE and CASE to implement conditional logic in your queries Use Oracle's new, analytic SQL features to write ranking queries, lag and lead queries, windowing queries, and more Join data from two or more tables using the newly supported SQL92 join syntax In addition, you'll see how SQL can best be integrated with PL/SQL. You'll also learn various best practices to help you write SQL queries that perform efficiently. Precious few books on the market today go beyond discussing syntax and the barest rudiments of using Oracle SQL. This book changes that, showing you how to creatively leverage the full power of SQL to write queries in an Oracle environment.

Perform fast interactive analytics against different data sources using the Trino high-performance distributed SQL query engine. With this practical guide, you'll learn how to conduct analytics on data where it lives, whether it's Hive, Cassandra, a relational database, or a proprietary data store. Analysts, software engineers, and production engineers will learn how to manage, use, and even develop with Trino. Initially developed by Facebook, open source Trino is now used by Netflix, Airbnb, LinkedIn, Twitter, Uber, and many other

companies. Matt Fuller, Manfred Moser, and Martin Traverso show you how a single Trino query can combine data from multiple sources to allow for analytics across your entire organization. Get started: Explore Trino's use cases and learn about tools that will help you connect to Trino and query data Go deeper: Learn Trino's internal workings, including how to connect to and query data sources with support for SQL statements, operators, functions, and more Put Trino in production: Secure Trino, monitor workloads, tune queries, and connect more applications; learn how other organizations apply Trino

Pro Oracle SQL unlocks the power of SQL in the Oracle Database—one of the most potent SQL implementations on the market today. To master it requires a three-pronged approach: learn the language features, learn the supporting features that Oracle provides to help use the language effectively, and learn to think and work in sets. Karen Morton and her team help you master powerful aspects of Oracle SQL not found in competing databases. You'll learn analytic functions, the MODEL clause, and advanced grouping syntax—features that will help in creating good queries for reporting and business intelligence applications. Pro Oracle SQL also helps you minimize parsing overhead, read execution plans, test for correct results, and exert control over SQL execution in your database. You'll learn when to create indexes, how to verify that they make a difference, how to use SQL Profiles to optimize SQL in packaged applications, and much more. You'll also understand how SQL is optimized for working in sets, and that the key to getting accurate results lies in making sure that queries ask clear and precise questions. What's the bottom-line? Pro Oracle SQL helps you work at a truly professional level in Oracle dialect of SQL. You'll master the language, the tools to work effectively with the language, and the right way to think about a problem in SQL. Pro Oracle SQL helps you rise above the crowd to provide stellar service in your chosen profession. Endorsed by the OakTable Network, a group of Oracle technologists well-known for their rigorous and scientific approach to Oracle Database performance Comprehensive—goes beyond the language with a focus on what you need to know to write successful queries and data manipulation statements.

Updated for the latest database management systems -- including MySQL 6.0, Oracle 11g, and Microsoft's SQL Server 2008 - - this introductory guide will get you up and running with SQL quickly. Whether you need to write database applications,

perform administrative tasks, or generate reports, *Learning SQL, Second Edition*, will help you easily master all the SQL fundamentals. Each chapter presents a self-contained lesson on a key SQL concept or technique, with numerous illustrations and annotated examples. Exercises at the end of each chapter let you practice the skills you learn. With this book, you will: Move quickly through SQL basics and learn several advanced features Use SQL data statements to generate, manipulate, and retrieve data Create database objects, such as tables, indexes, and constraints, using SQL schema statements Learn how data sets interact with queries, and understand the importance of subqueries Convert and manipulate data with SQL's built-in functions, and use conditional logic in data statements Knowledge of SQL is a must for interacting with data. With *Learning SQL*, you'll quickly learn how to put the power and flexibility of this language to work.

Beginning Oracle SQL is your introduction to the interactive query tools and specific dialect of SQL used with Oracle Database. The book is a revision of the classic *Mastering Oracle SQL and SQL*Plus* by Lex de Haan, and has been updated to cover developments in Oracle's version of the SQL query language. Written in an easygoing and example-based style, *Beginning Oracle SQL* is the book that will get you started down the path to successfully writing SQL statements and getting results from Oracle database. Takes an example-based approach, with clear and authoritative explanations Introduces both SQL and the query tools used to execute SQL statements Shows how to create tables, populate them with data, and then query that data to generate business results

The vast majority of Oracle SQL books discuss some syntax, provide the barest rudiments of using Oracle SQL, and perhaps include a few simple examples. It might be enough to pass a survey course, or give you some buzz words to drop in conversation with real Oracle DBAs. But if you use Oracle SQL on a regular basis, you want much more. You want to access the full power of SQL to write queries in an Oracle environment. You want a solid understanding of what's possible with Oracle SQL, creative techniques for writing effective and accurate queries, and the practical, hands-on information that leads to true mastery of the language. Simply put, you want useful, expert best practices that can be put to work immediately, not just non-vendor specific overview or theory. Updated to cover the latest version of Oracle, Oracle 10g, this edition of the highly regarded *Mastering Oracle SQL* has a stronger focus

on technique and on Oracle's implementation of SQL than any other book on the market. It covers Oracle's vast library of built-in functions, the full range of Oracle SQL query-writing features, regular expression support, new aggregate and analytic functions, subqueries in the SELECT and WITH clauses, multiset union operators, enhanced support for hierarchical queries: leaf and loop detection, and the CONNECT_BY_ROOT operator, new partitioning methods (some introduced in Oracle9i Release 2), and the native XML datatype, XMLType. *Mastering Oracle SQL, 2nd Edition* fills the gap between the sometimes spotty vendor documentation, and other books on SQL that just don't explore the full depth of what is possible with Oracle-specific SQL. For those who want to harness the untapped (and often overlooked) power of Oracle SQL, this essential guide for putting Oracle SQL to work will prove invaluable.

Write powerful SQL statements and PL/SQL programs Learn to access Oracle databases through SQL statements and construct PL/SQL programs with guidance from Oracle expert, Jason Price. Published by Oracle Press, *Oracle Database 11g SQL* explains how to retrieve and modify database information, use SQL Plus and SQL Developer, work with database objects, write PL/SQL programs, and much more. Inside, you'll find in-depth coverage of the very latest SQL features and tools, performance optimization techniques, advanced queries, Java support, and XML. This book contains everything you need to master SQL. Explore SQL Plus and SQL Developer Use SQL SELECT, INSERT, UPDATE, and DELETE statements Write PL/SQL programs Create tables, sequences, indexes, views, and triggers Write advanced queries containing complex analytical functions Create database objects and collections to handle abstract data Use large objects to handle multimedia files containing music and movies Write Java programs to access an Oracle Database using JDBC Tune your SQL statements to make them execute faster Explore the XML capabilities of the Oracle Database Master the very latest Oracle Database 11g features, such as PIVOT and UNPIVOT, flashback archives, and much more

A tutorial on Structured Query Language, focused on the use of the ORACLE program for professional business applications

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

Oracle Performance Survival Guide A Systematic Approach to Database Optimization

The fast, complete, start-to-finish guide to optimizing Oracle performance *Oracle Performance Survival Guide* offers a structured, systematic, start-to-finish methodology for optimizing Oracle performance as efficiently as possible. Leading Oracle expert Guy Harrison shows how to maximize your tuning investment by focusing on causes rather than symptoms, and by quickly identifying the areas that deliver the greatest "bang for the buck." Writing for DBAs and developers with all levels of experience, Harrison covers every area of Oracle performance management, from application design through SQL tuning, contention management through memory and physical IO management. He also presents up-to-the-minute guidance for optimizing the performance of the Oracle 11g Release 2. You'll start by mastering Oracle structured performance tuning principles and tools, including techniques for tracing and monitoring Oracle execution. Harrison illuminates the interaction between applications and databases, guides you through choosing tuning tools, and introduces upfront design techniques that lead to higher-performance applications. He also presents a collection of downloadable scripts for reporting on all aspects of database performance. Coverage includes • "Tuning by layers," the most effective, highest-value approach to Oracle performance optimization • Making the most of Oracle's core tools for tracing, monitoring, and diagnosing performance • Highly efficient database logical and physical design, indexing, transaction design, and API use • SQL and PL/SQL tuning, including the use of parallel SQL techniques • Minimizing contention for locks, latches, shared memory, and other database resources • Optimizing memory and physical disk IO • Tuning Real Application Cluster (RAC) databases guyharrison.net informit.com/ph

SQL (Structured Query Language), the heart of a relational database management system, is the language used to query the database, to create new tables in the database, to update and delete fields, and to set access privileges. Aimed at everyone who needs to access an Oracle database using SQL, including developers, DBAs, designers, and managers, this book delivers all the information they need to know about standard SQL, and Oracle's extensions to it.

A complete guide to SQL*Loader, a utility used to move data from external files into an Oracle database, offers step-by-step instruction in the various applications of SQL*Loader, providing a task-oriented approach that covers the latest Oracle 8 and Oracle 8i features. Original. (Beginner/In-

intermediate)

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.

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 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.

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.MHProfessional.com. TAG: For a complete list of Oracle Press titles, visit www.OraclePressBooks.com

This Oracle Database 19c DBA Practical Handbook is just the first part of a series of books. Since the scope of Oracle's providence is very extensive, there is a lot to go through and implore. A thorough study of this guide will help in pertinent use of Oracle products and a great on-the-job reference for Oracle Databases.

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 11g'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!

This exceptional book explains fundamentals in detail, supported by realistic examples, while most other books on the market do not properly cover such basics. If you work with relational databases you need to understand the SQL language. And you will gain full competence to define, access, and manipulate data in an Oracle database, if you do so following this book's guidance. This book is fully compliant with the latest version of the ANSI SQL standard, and fully updated for the Oracle 10g database. Furthermore, this book is based on a popular Netherlands college textbook (currently in its third edition). And author Lex de Haan is vastly experienced with the Oracle database, and has 25 years of teaching experience. de Haan is also a member of the ANSI/ISO SQL standardization national body.

Take a simple approach to learning the Oracle GoldenGate product. This approach provides the in-depth perspective of GoldenGate from an implementer's viewpoint; however, also addresses why the management viewpoint is important as well. Your journey through this book includes an architecture discussion of GoldenGate and the benefits of purchasing GoldenGate from a management perspective. Then the book quickly moves into advanced implementation components associated with GoldenGate. You'll find many use-cases and instructions throughout the book to help with everything from easy to complex GoldenGate implementations. An Oracle GoldenGate implementation generally consists of a group project, involving both business and technical resources. Pro Oracle GoldenGate for the DBA provides the viewpoint from the DBA's vantage point. This approach provides the components of who, what, why, when, and how in defining the implementation and support of a GoldenGate project. The success of most technical projects requires the support of multiple resource groups, and Pro Oracle GoldenGate for the DBA supplies the insight for the DBA member to understand

the implementation and support process. Takes you through justification, installation, and support. Provides the DBA perspective toward a successful result. Covers from basic toward increasingly advanced implementations What You Will Learn Understand the core architecture of data replication using Oracle GoldenGate Implement a one-way setup of a classic capture and an integrated capture and replication Design, architect and implement a multi-master replication model Replicate unsupported data types using tokens Manage and troubleshoot multiple GoldenGate implementations New features of GoldenGate supported in Oracle 12c Who this Book is For Pro Oracle GoldenGate for the DBA is aimed squarely at Oracle database administrators who find themselves involved in GoldenGate integration projects. The book provides the DBA view into such projects, helping database administrators toward successful implementations and solid business results.

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

Utilize the power of SQL queries to bring Business Intelligence to your small to medium-sized business with this book and eBook.

Despite the wide use of SQL *Plus, few developers and database administrators know how powerful it really is. And the syntax can sometimes be tricky. This portable guide provides a quick reference to subjects such as interacting with SQL *Plus, selecting data, formatting reports, writing scripting, and tuning SQL. There's also a command reference.

Expert Oracle GoldenGate is a hands-on guide to creating and managing complex data replication environments using the latest in database replication technology from Oracle. GoldenGate is the future in replication technology from Oracle, and aims to be best-of-breed. GoldenGate supports homogeneous replication between Oracle databases. It supports heterogeneous replication involving other brands such as Microsoft SQL Server and IBM DB2 Universal Server. GoldenGate is high-speed, bidirectional, highly-parallelized, and makes only a light impact on the performance of databases involved in replication. The authors share their experience in the form of tutorials on designing and implementing all types of Oracle GoldenGate environments. You'll learn methods for tuning Oracle GoldenGate performance. You'll discover GoldenGate's utility as a migration and extract, transform, load (ETL) tool. You'll learn to configure highly-available environments involving GoldenGate, Real Application Clusters, and Data Guard. From installation to design to implementation and troubleshooting, Expert Oracle GoldenGate helps you master all aspects of using and applying Oracle GoldenGate as the replication tool of choice in your environment. Explains all aspects of using GoldenGate for replication Covers homogeneous, heterogeneous, and bidirectional replication Shows the use of GoldenGate for data migration

and extract, transform, load (ETL)

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.

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.

A poorly performing database application not only costs users time, but also has an impact on other applications running on the same computer or the same network. SQL Tuning provides an essential next step for SQL developers and database administrators who want to extend their SQL tuning expertise and get the most from their database applications. There are two basic issues to focus on when tuning SQL: how to find and interpret the execution plan of an SQL statement and how to change SQL to get a specific alternate execution plan. SQL Tuning provides answers to these questions and addresses a third issue that's even more important: how to find the optimal execution plan for the query to use. Author Dan Tow outlines a timesaving method he's developed for finding the optimum execution plan--rapidly and systematically--regardless of the complexity of the SQL or the database platform being used. You'll learn how to understand and control SQL execution plans and how to diagram SQL queries to deduce the best execution plan for a query. Key chapters in the book include exercises to reinforce the concepts you've learned. SQL Tuning concludes by addressing special concerns and unique solutions to "unsolvable problems." Whether you are a programmer who develops SQL-based applications or a database administrator or other who troubleshoots poorly tuned applications, SQL Tuning will arm you with a reliable and deterministic method for tuning your SQL queries to gain optimal performance.