

Oracle Sql Tuning Pocket Reference

The Oracle SQLPlus Pocket Reference is a must-have for anyone working with Oracle databases, especially those looking to maximize the effectiveness of SQLPlus. As Oracle's long-standing interactive query tool, SQLPlus is available at every Oracle site, from the largest data warehouse to the smallest single-user system. Despite its wide use, however, SQLPlus is still often not completely understood or fully utilized. Database administrators and developers alike will therefore find the Oracle SQLPlus Pocket Reference to be extremely beneficial. In addition to summarizing all of the SQLPlus syntax and format options, including new Oracle Database 10g features, this handy, on-the-job guide specifically shows readers how to: Differentiate between SQL and SQLPlus Interact with SQLPlus from both the command line and the web browser Select, insert, update, and delete data Format both text and HTML reports with SQLPlus Specify SQLPlus commands and format elements Tune SQL queries The new third edition of this book has been updated for Oracle Database 10g to include information on both SQL*Plus and SQL. New SQL information includes the SELECT statement's new MODEL clause, flashback queries, partition outer joins, and DBMS_XPLAN. With its quick-reference format and compact size, the Oracle SQLPlus Pocket Reference follows in the long line of successful "pocket references" offered by O'Reilly. It also serves as the ideal companion to O'Reilly's larger, more comprehensive book on SQLPlus, the bestselling Oracle SQL*Plus: The Definitive Guide. Author Jonathan Gennick is an editor for O'Reilly specializing in database and programming titles, having amassed some 17 years of programming and database management experience. 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.

Developers and DBAs use Oracle SQL coding on a daily basis, whether for application development, finding problems, fine-tuning solutions to those problems, or other critical DBA tasks. Oracle SQL: Jumpstart with Examples is the fastest way to get started and

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to quickly locate answers to common (and uncommon) questions. It includes all the basic queries: filtering, sorting, operators, conditionals, pseudocolumns, single row functions, joins, grouping and summarizing, grouping functions, subqueries, composite queries, hierarchies, flashback queries, parallel queries, expressions and regular expressions, DML, datatypes (including collections), XML in Oracle, DDL for basic database objects such as tables, views and indexes, Oracle Partitioning, security, and finally PL/SQL. * Each of the hundreds of SQL code examples was tested on a working Oracle 10g database * Invaluable everyday tool that provides an absolute plethora of properly tested examples of Oracle SQL code * Authors have four decades of commercial experience between them as developers and database administrators

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.

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.

An overview of the new version of Oracle includes a review of the database management and administration enhancements of Oracle 10G, as well as changes to security, Internet features, architecture, real application clusters, and performance.

Bert Scalzo and Dan Hotka have written the definitive, up-to-date guide to Version 12.x, Dell's powerful new release of Toad for Oracle. Packed with step-by-step recipes, detailed screen shots, and hands-on exercises, Toad for Oracle Unleashed shows both developers and DBAs how to maximize their productivity. Drawing on their unsurpassed experience running Toad in production Oracle environments, Scalzo and Hotka thoroughly cover every area of Toad's functionality. You'll find practical insights into each of Toad's most useful tools, from App Designer to Doc Generator, ER Diagrammer to Code Road Map. The authors offer proven solutions you can apply immediately to solve a wide variety of problems, from maintaining code integrity to automating performance and scalability testing. Learn how to... Install and launch Toad, connect to a database, and explore Toad's new features Customize Toad to optimize productivity in your environment Use the Editor Window to execute SQL and PL/SQL, and

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view, save, or convert data Browse your schema, and create and edit objects Quickly generate useful reports with FastReport and Report Manager Clarify your database's tables and data with the powerful Entity Relationship Diagrammer (ERD) and HTML documentation generator Work more efficiently with PL/SQL using code templates, snippets, and shortcuts Automate actions and applications with Automation Designer Perform key DBA tasks including database health checks, tablespace management, database and schema comparisons, and object rebuilding Identify and optimize poorlyperforming SQL and applications ON THE WEB: Download all examples and source code presented in this book from informit.com/title/9780134131856 as it becomes available.

The Oracle Utilities Pocket Reference is a handy, quick-reference guide to the multitude of Oracle utilities that database administrators (DBAs) use every hour of every day. As the undisputed leader among database products, Oracle is grasped conceptually by most DBAs. However, they understandably may not recall the specific utility to use for a given task, and, more commonly, won't in many cases remember the syntax to use. And that's exactly what the Oracle Utilities Pocket Reference supplies--the syntax and options for whatever utility a DBA needs to perform a given task. Some of the utilities documented in this guide include: SQL*Loader, for loading data expdp and exp for exporting data to another database oradebug for use in troubleshooting loadjava and dropjava for loading and unloading Java programs Packed with information in an easy-to-read format, this valuable resource is ideal for any experienced DBA. Even database programmers who deal with Oracle will truly appreciate having the Oracle Utilities Pocket Reference close at hand. Authored by Sanjay Mishra, a foremost authority on Oracle systems, this convenient and compact guide is focused and to-the-point, eliminating any potential guesswork or difficult memorization. The Oracle Utilities Pocket Reference is part of the strong-selling collection of O'Reilly "pocket reference" books. 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

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the language with a focus on what you need to know to write successful queries and data manipulation statements.

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

Discusses the command line SQL and PL/SQL language interface and reporting tool, providing information about its syntax and format elements.

Explains how to configure Windows Me for maximum control and flexibility, avoid the Home Networking and System Restore wizard, and use Windows Script Host to eliminate annoyances.

Toad is an enormously popular interactive environment tool for Oracle development and administration. It allows developers to build, test, debug, and format their code via an easy-to-use graphical user interface, available in both freeware and commercial versions. Toad makes developers far more productive; using Toad, you'll find that program changes that once took hours can now be completed in minutes. Toad allows developers to browse their database tables, procedures, and object types; use code templates; and show errors. It also simplifies database administration by providing a way for DBAs to graphically browse and change database characteristics. Updated for Toad Versions 8.0 and 8.5, this pocket book is packed with quick-reference material: Toad feature and menu summaries, shortcut keys, suggested changes to Toad defaults, productivity tips and tricks, and more. The book includes concise discussions of all the basic Toad components: the SQL Editor, Procedure Editor, SQL Modeler, Schema Browser, Project Manager, and Debugger. The second edition includes coverage of new SQL Editor features, improvements in usability, and new tools such as CodeXpert (a robust code analyzer and advisor) and Script Debugger (the only tool available that provides real-time debugging of SQL*Plus scripts). It also provides helpful hints on using Toad to perform database administration and SQL tuning and optimization. Whether you're a new or experienced Toad user, you'll find this quick reference an indispensable companion to the product and its online help files.

Distilling a vast amount of knowledge into an easy-to-read volume covering the full range of Oracle's features and technologies, this title includes an overview of Oracle 10g, along with recent releases 9i and 8i. It provides everything you should need to install and run the Oracle databases.

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With concise coverage of both Oracle 9i and Oracle 10g, this is the ideal reference for the professional DBA on how to use Perl to automate database tasks. The book covers language selection and concepts, including basic scripting concepts.

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/Intermediate)

A complete revision of the original title, this second edition adds new material on Oracle 7.3 and many Oracle 8 features. It explores new Oracle capabilities like parallel server, parallel query, and distributed database. It contains more detail on constraints and triggers, many more examples, and information on new tuning tools like the Oracle Performance Pack, Oracle Trace, and Oracle Expert.

An interactive guide to Oracle's intensive query tool, SQL* Plus, discusses its powerful features, furnishes a syntax quick reference, and explains how to write and execute script files, generate reports, extract data from the database, utilize new administrative features, query data dictionary tables, and more. Original. (Intermediate)

Explores Oracle's implementation of SQL and explains how to perform tasks including querying time-based data, implementing conditional logic in queries, writing queries, and joining data from two or more tables.

This pocket reference provides quick-reference information that will help you use Oracle Corporation's extensive set of built-in functions and packages, including those new to Oracle8. Oracle's PL/SQL language is a programming language providing procedural extensions to the SQL relational database language and to an ever-growing number of Oracle development tools. Among the most useful constructs in the PL/SQL language are the built-in functions and packages. Built-in functions are constructs that operate on certain types of data (e.g., numeric, character) to return a result. By using functions, you can minimize the coding you need to do in your programs. Functions are described in detail in Steven Feuerstein's Oracle PL/SQL Programming; this comprehensive guide to building applications with PL/SQL has become the bible for PL/SQL developers who have raved about its completeness, readability, and practicality. Built-in functions fall into several major categories: Character functions: Operate on character data. Examples include CONCAT (concatenates two strings into one), LENGTH (returns the length of a string), and REPLACE (replaces a character sequence in a string with a different set of characters). Date functions: Operate on dates and supplement the DATE datatype. Examples include SYSDATE (returns the current date and time in the Oracle Server) and LAST_DAY (returns the last day in the month of the specified date). Numeric functions: Operate on numeric data. Examples include CEIL (returns the smallest integer greater than or equal to the specified number) and POWER (returns a number raised to a particular power). LOB functions: Operate on large object data. Examples include EMPTY_BLOB (returns an empty locator of the binary large object type) and EMPTY_CLOB (returns an empty locator of the character large object type). Conversion functions: Perform explicit conversions of different types of data. Examples include TO_CHAR (converts a number or date to a string) and TO_NUMBER (converts a string to a number). Miscellaneous functions. Examples include GREATEST

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(returns the greatest of the specified list of values) and UID (returns the user ID of the current Oracle session). Built-in packages (collections of PL/SQL objects, such as functions, procedures, and data structures) greatly expand the scope of the PL/SQL language. These packages are described in detail in Feuerstein's and Beresniewicz's book, *Oracle Built-in Packages*. Built-in packages are built by Oracle Corporation and stored directly in the Oracle database. The functionality of the built-ins is available from any programming environment that can call PL/SQL stored procedures, including Visual Basic, Oracle Developer/2000, Oracle Application Server (for Web-based development), and, of course, the Oracle database itself. Built-in packages extend the capabilities and power of PL/SQL in many significant ways. For example: DBMS_SQL executes dynamically constructed SQL statements and PL/SQL blocks of code. DBMS_PIPE communicates between different Oracle sessions through a pipe in the RDBMS shared memory. DBMS_JOB submits and manages regularly scheduled jobs for execution inside the database. DBMS_LOB accesses and manipulates Oracle8's large objects (LOBs) from within PL/SQL programs. The book shows how to call all of the commonly used built-in functions and packages. For packages, it also shows the RESTRICT REFERENCES pragmas (needed if you call packages from a SQL statement), as well as the exceptions, constants, and data structures defined in the packages.

This pocket guide presents the most crucial information about SQL in a compact and easily accessible format, covering the four commonly used SQL variants--Oracle, IBM DB2, Microsoft SQL Server, and MySQL. Topics include: Data manipulation statements (SELECT, DELETE, INSERT, UPDATE, MERGE) and transaction control statements (START TRANSACTION, SAVEPOINT, COMMIT, ROLLBACK). Common SQL functions (date, numeric, math, trigonometric, string, conversion, aggregate) Such topics as literals, NULLs, CASE expressions, datatype conversion, regular expressions, grouping and summarizing data, joining tables, and writing queries (hierarchical, recursive, union, flashback) and subqueries. Instead of presenting complex and confusing syntax diagrams, the book teaches by example, showing the SQL statements and options that readers are most like to use. All example data is available on the O'Reilly web site. "If you need fast, accurate SQL information, with examples for multiple database engines, be sure to check out this book."--Chris Kempster, Senior DBA and author of *SQL Server 2000 for the Oracle DBA*, www.chriskempster.com

A guide to SQL covers such topics as creating a database, filtering, querying, sets, data generation, grouping, and conditional logic.

Oracle SQL Tuning Pocket Reference Write Efficient SQL "O'Reilly Media, Inc."

Oracle RMAN Pocket Reference is a handy guide for DBAs who intend to use Oracle Recovery Manager for database backup and recovery. Because Recovery Manager (RMAN) is a relatively new tool, many DBAs are just becoming familiar with it. They will welcome a timely book that explains clearly and concisely how to use RMAN for common backup and recovery tasks that are infrequent, yet extremely vital. The first portion of the book is primarily task-oriented. After a short section on RMAN architecture, the book shows (in checklist style) how to perform common backup and recovery tasks such as: Implementing a recovery catalog

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Creating and running RMAN scripts
Configuring input/output channels
Taking a full database backup
Backing up tablespaces and datafiles
Taking incremental backups
Recovering lost datafiles

The second portion of the book consists of a handy syntax reference to the many RMAN commands. Having a quick reference to RMAN commands is a great convenience to DBAs who otherwise, often under the pressure of a recovery situation, would have to wade through Oracle's online documentation.

Written by a Senior Database Administrator who has worked with the Oracle RDBMS for thirty years, this is a book which teaches the skill of SQL Tuning for the Oracle Database. Not a list of one-off tricks or tips, nor a glossing over of topics; this book offers an in-depth process covering discovery, analysis, and problem resolution. Learn the science behind SQL Tuning. Learn and apply the FILTERED ROWS PERCENTAGE Cardinality based method of tuning
Determine a query's Driving Table and Join Order
Construct Query Diagrams, Data Models, and Join Trees
Build and use Count / Filter / and Reconstruction Queries
Identify Waste in a Query Execution Plan
Zero in on Cardinality Divergence using Estimated vs. Actuals
Use the ACCESS / FILTER / COVERAGE strategy to build indexes for Problem Queries
Exploit THE 2% RULE in analyzing Access method and Join method
Classify queries as Precision Style or Warehouse Style
Understand Hash Join mechanics and make Hash Joins go faster
Make HINTS work as Detection Tools rather than clubs
Avoid early Database Design flaws
Manage Statistics and deal with common Statistics problems (NDV, Uniform Distribution, Independence, Dynamic Sampling) (Staleness, Skew, Dependence, Defaulting, Out-Of-Bounds, Transiency, Bloat)
Perfect your Question Based Analysis Technique and more
Included are: a special chapter for EXADATA, a LAB which demonstrates the cardinality based process of SQL Tuning, and twenty three magical SQL scripts that make the process of SQL Tuning easy to do. Learn the skill of SQL Tuning as taught by an expert who does it for a living, and become the go-to specialist in your company.

Chapter 1: DRIVING TABLE and JOIN ORDER
Chapter 2: Ways to Use a Query Execution Plan
Chapter 3: The Best Indexes for a Query
Chapter 4: JOINS
Chapter 5: HINTS
Chapter 6: BASICS
Chapter 7: ROW COUNTS and RUN TIMES
Chapter 8: EXADATA LAB: Reverse Engineering the QEP
Appendix: Know Your Scripts
Scripts for analyzing queries and plans
Scripts for examining an active database
Scripts for looking at metadata
showplan
showplanshort
showplanconstraints
showplancountqueries
showplandatamodel
showplandrivingtable
showplanfilterqueries
showplanfrpspreadsheetcode
showplanindexes
showplannumrows
showplanquerydiagram
showplantables
showplantablesunique
loadplanfromcache
loadplanfromhist
showtopcpu
showowner
showindexes
showconstraints
showcolstats
showhistograms
showallscanrates
showallworkareas

It's all about the Cardinalities

Oracle SQL Tuning with SQLTXPLAIN is a practical guide to SQL tuning the way Oracle's own experts do it, using a freely downloadable tool called SQLTXPLAIN. Using this simple tool you'll learn how to tune even the most complex SQL, and you'll learn to do it quickly, without the huge learning curve usually associated with tuning as a whole. Firmly based in real world problems, this book helps you reclaim system resources and avoid the most common bottleneck in overall performance, badly tuned SQL. You'll learn how the optimizer works, how to take advantage of its latest features, and when it's better to turn them off. Quickly tune any SQL statement no matter how complex. Build and tune test cases without affecting production. Use the latest

tuning features with confidence.

Despite its wide availability and usage, few developers and DBAs have mastered the true power of Oracle SQLPlus. This bestselling book--now updated for Oracle 10g--is the only in-depth guide to this interactive query tool for writing SQL scripts. It's an essential resource for any Oracle user. The new second edition of Oracle SQLPlus: The Definitive Guide clearly describes how to perform, step-by-step, all of the tasks that Oracle developers and DBAs want to perform with SQLPlus--and maybe some you didn't realize you could perform. With Oracle SQLPlus: The Definitive Guide, you'll expertly: write and execute script files generate ad hoc reports extract data from the database query the data dictionary tables customize an SQLPlus environment and much more It also includes a handy quick reference to all of its syntax options and an often-requested chapter on SQL itself, along with a clear, concise, and complete introduction. This book is truly the definitive guide to SQLPlus. It's an indispensable resource for those who are new to SQL*Plus, a task-oriented learning tool for those who are already using it, and an immediately useful quick reference for every user. If you want to leverage the full power and flexibility of this popular Oracle tool, you'll need this book.

Oracle Languages - Syntax summary for SQL language statements, SQL function calls PL/SQL language statements and characteristics, PL/SQL built-in package headers, and Java (JDBC and SQLJ) interfaces to the Oracle database.

The new Oracle Application Server offers a wide range of functionality, including Java runtime and development tools, portal development tools, business intelligence, single sign-on identify management, and much more. It's so powerful and complex, in fact, that many people who use the product (or are considering using it) are familiar with only a portion of the entire range of its capabilities. The choices can be overwhelming. Few people grasp how the larger issues--such as the interplay between components or the various architectural choices in the product--play out in the Oracle Application Server. This new guide provides the perfect introduction to the Oracle Application Server for users of any level. Regardless of which of the server's capabilities you use, you'll benefit from this tightly focused, all-in-one technical overview. It's written for anyone who is concerned with using and managing web servers, doing Java development and deployment, using Oracle's own tools--like Forms and Reports, using or developing for Oracle Portal, or those who use and administer business intelligence, mobile or integration software. Divided into three concise sections, the book covers server basics, core components, and server functionality. The book leads with the history of Oracle Application Server, its architecture, management, standards, and third-party support for languages and tools such as Java, Perl, and HTTP. The next section covers Oracle's web server, containers for Java web caching, and the server's security features. And finally, the book discusses HTML development, Java development, and Oracle development. Although the book refers mainly to Oracle Application Server 10g, the authors also describe features in earlier product releases where necessary, particularly Oracle9i Application Server. More comprehensible than a large reference and more detailed than a primer, the book provides a foundation for understanding and using Oracle Application Server effectively and efficiently. Readers concentrate on the most important issues and components of the server, focusing primarily on principles rather than syntax. Designed to be the ideal first OracleAS book, Oracle Application Server 10g Essentials offers Oracle application developers and administrators

everything they need to know about this powerful server.

Canada was young during the First World War, and with as many as 20,000 underage soldiers leaving their homes to join the war effort, the country's army was, too. Jim, at 17, was one of them, and he penned countless letters home. But these weren't the writings of an ordinary boy. They were the letters of a lad who left a small farming community for the city on July 15, 1915, a boy who volunteered to serve with the 79th Queen's Own Cameron Highlanders. Jim's letters home gloss over the horrors of war, focusing instead on issues of the home front: of harvesting, training the horses, and the price of hogs. Rarely do these letters, especially those to his mother and father, mention the mud and rats, the lice and stench of the trenches, or the night duty of cutting barbed wire in no man's land. For 95 years his letters remained in a shoebox decorated by his mother. Jim was just 18 when he was wounded and died during the Battle of the Somme. *Hold the Oxo!* tells the story that lies between the lines of his letters, filling in the historical context and helping us to understand what it was like to be Jim.

Explores the interactive environment used for Oracle development and administration, covering topics including features, menus, defaults, shortcut keys, and SQL tuning.

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.

Introduce the latest version of the fundamental SQL language used in all relational databases today with Casteel's *ORACLE 12C: SQL, 3E*. Much more than a study guide, this edition helps those who have only a basic knowledge of databases master the latest SQL and Oracle concepts and techniques. Learners gain a strong understanding of how to use Oracle 12c SQL most effectively as they prepare for the first exam in the Oracle Database Administrator or Oracle Developer Certification Exam paths. This edition initially focuses on creating database objects, including tables, constraints, indexes, sequences, and more. The author then explores data query techniques, such as row filtering, joins, single-row functions, aggregate functions, subqueries, and views, as well as advanced query topics. *ORACLE 12C: SQL, 3E* introduces the latest features and enhancements in 12c, from enhanced data types and invisible columns to new *CROSS* and *OUTER APPLY* methods for joins. To help readers transition to further studies, appendixes introduce SQL tuning, compare Oracle's SQL syntax with other databases, and overview Oracle connection interface tools: *SQL Developer* and *SQL Plus*. Readers can trust *ORACLE 12C: SQL, 3E* to provide the knowledge for Oracle certification testing and the solid foundation for pursuing a career as a successful database administrator or developer. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Proven Database Optimization Solutions? Fully Updated for Oracle Database 12c Release 2 Systematically identify and eliminate database performance problems with help from Oracle Certified Master Richard Niemiec. Filled with real-world case studies and best practices, Oracle Database 12c Release 2 Performance Tuning Tips and Techniques details the latest monitoring, troubleshooting, and optimization methods. Find out how to identify and fix bottlenecks on premises and in the cloud, configure storage devices, execute effective queries, and develop bug-free SQL and PL/SQL code. Testing, reporting, and security enhancements are also covered in this Oracle Press guide.

- Properly index and partition Oracle Database 12c Release 2
- Work effectively with Oracle Cloud, Oracle Exadata, and Oracle Enterprise Manager
- Efficiently manage disk drives, ASM, RAID arrays, and memory
- Tune queries with Oracle SQL hints and the Trace utility
- Troubleshoot databases using V\$ views and X\$ tables
- Create your first cloud database service and prepare for hybrid cloud
- Generate reports using Oracle's Statspack and Automatic Workload Repository tools
- Use sar, vmstat, and iostat to monitor operating system statistics

Expert Oracle RAC Performance Diagnostics and Tuning provides comprehensive coverage of the features, technology and principles for testing and tuning RAC databases. The book takes a deep look at optimizing RAC databases by following a methodical approach based on scientific analysis rather than using a speculative approach, twisting and turning knobs and gambling on the system. The book starts with the basic concepts of tuning methodology, capacity planning, and architecture. Author Murali Vallath then dissects the various tiers of the testing implementation, including the operating system, the network, the application, the storage, the instance, the database, and the grid infrastructure. He also introduces tools for performance optimization and thoroughly covers each aspect of the tuning process, using many real-world examples, analyses, and solutions from the field that provide you with a solid, practical, and replicable approach to tuning a RAC environment. The book concludes with troubleshooting guidance and quick reference of all the scripts used in the book. Expert Oracle RAC Performance Diagnostics and Tuning covers scenarios and details never discussed before in any other performance tuning books. If you have a RAC database, this book is a requirement. Get your copy today. Takes you through optimizing the various tiers of the RAC environment. Provides real life case studies, analysis and solutions from the field. Maps a methodical approach to testing, tuning and diagnosing the cluster

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.

Performance problems are rarely "problems" per se. They are more often "crises" during which you're pressured for results by a manager standing outside your cubicle while your phone rings with queries from the help desk. You won't have the time for a leisurely perusal of the manuals, nor to lean back and read a book on theory. What you need in that

situation is a book of solutions, and solutions are precisely what Oracle Database 11g Performance Tuning Recipes delivers. Oracle Database 11g Performance Tuning Recipes is a ready reference for database administrators in need of immediate help with performance issues relating to Oracle Database. The book takes an example-based approach, wherein each chapter covers a specific problem domain. Within each chapter are "recipes," showing by example how to perform common tasks in that chapter's domain. Solutions in the recipes are backed by clear explanations of background and theory from the author team. Whatever the task, if it's performance-related, you'll probably find a recipe and a solution in this book. Provides proven solutions to real-life Oracle performance problems Offers relevant background and theory to support each solution Written by a team of experienced database administrators successful in their careers

The Oracle database is one of the most popular in the world, and for good reason. It's compatible, scalable, portable, and capable of performing incredibly fast. The advantages Oracle holds over its competition come with a price, however--it's a highly complex database that's becoming more complex with every release. And this level of detail, of course, can begin to weigh on database administrators (DBAs). Fortunately, the Oracle DBA Pocket Guide from O'Reilly is on the case. This handy reference is designed to help administrators make more effective use of their time by presenting a compact summary of DBA tasks in an easy-to-use form. With this book by your side, you'll have instant access to the most important concepts, best practices, tips, and checklists. Key topics include architecture, installation, configuration, tuning, and backup/recovery. Everything that you absolutely must know to do your job well is right there at your fingertips. Moreover, the Oracle DBA Pocket Guide covers Oracle Database 9i, as well as its latest release, Oracle Database 10g. The first database designed for enterprising grid computing, Oracle Database 10g significantly reduces the cost of managing the IT environment with a simplified install, reduced configuration and management requirements, and automatic performance diagnosis and SQL tuning. The latest in O'Reilly's line of bestselling Oracle titles, this book is an invaluable companion for any database administrator--new or experienced--interested in reviewing core Oracle concepts at a glance.

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