

# Oracle Sql Tuning Pocket Reference

Incident Response  
MySQL Stored Procedure Programming  
SQL Performance Tuning  
The British National Bibliography  
Oracle SQL Tuning with Oracle SQLTXPLAIN  
Oracle Performance Tuning  
Oracle SQL\*Loader  
Toad for Oracle Unleashed  
Programming Visual Basic .NET  
Optimizing Oracle Performance  
SQL Tuning  
Mastering Oracle SQL  
Oracle SQL\*Plus  
Oracle SQL\*Plus  
Oracle SQL\*Plus Pocket Reference  
Oracle PL/SQL Best Practices  
Oracle SQL\*Plus: The Definitive Guide  
Oracle 12c: SQL Learning  
SQL  
Oracle DBA Pocket Guide  
Advanced Oracle SQL Programming  
Oracle on VMware  
XML in a Nutshell  
Oracle SQL Tuning Pocket Reference  
Oracle PL/SQL Programming  
TOAD Pocket Reference for Oracle  
Network Troubleshooting Tools  
Oracle SQL\*Plus  
Toad Pocket Reference for Oracle  
Oracle PL/SQL for DBAs  
Mastering Oracle SQL  
Oracle SQL Tuning  
Oracle PL/SQL Programming: A Developer's Workbook  
MySQL Stored Procedure Programming  
Database Benchmarking  
Relational Database Index Design and the Optimizers  
Oracle PL/SQL Language Pocket Reference  
Java Message Service  
Oracle PL/SQL Built-ins Pocket Reference  
Oracle and Open Source

## Incident Response

A reference to the fundamental rules of XML details tags, grammar, placement, element names, attributes, and syntax.

## MySQL Stored Procedure Programming

However excellent they are, most computer books are inherently passive--readers simply take in text without having any opportunity to react to it. The Oracle PL/SQL Developer's Workbook is a different kind of animal! It's designed to engage you actively, to get you solving programming problems immediately, and to help you apply what you've learned about PL/SQL--and in the process deepen your knowledge of the language. By tackling the exercises in this workbook, you'll find yourself moving more rapidly along the learning curve to join the growing ranks of PL/SQL experts. The Oracle PL/SQL Developer's Workbook is a companion to Steven Feuerstein's bestselling Oracle PL/SQL Programming and his other PL/SQL books from O'Reilly. It contains a carefully constructed set of problems and solutions that will test your language skills and help you become a better developer--both with PL/SQL and with other languages. Exercises are provided at three levels: beginner, intermediate, and expert. The workbook exercises cover all the major features of PL/SQL, including those new to Oracle8i (e.g., Java and web features, autonomous transactions, and bulk binds). You'll find chapters on: Basic language elements--variables, naming, loops, conditional and sequential control, exception handling, and records. Data structures--index-by tables, nested tables, variables arrays (VARRAYs), and object technology. Database interaction--cursors, DML and transaction management, cursor variables, and native dynamic SQL Program construction--procedures, functions,

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blocks, packages, database triggers, and calling PL/SQL functions in SQL. Built-in functionality--the character, date, conversion, numeric, and miscellaneous functions, and the DBMS\_SQL, DBMS\_PIPE, DBMS\_OUTPUT, UTL\_FILE, and DBMS\_JOB built-in packages. Miscellaneous topics--using Java with PL/SQL, external programs, PL/SQL web development, tuning PL/SQL, and PL/SQL for DBAs.

### **SQL Performance Tuning**

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)

### **The British National Bibliography**

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

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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.

### **Oracle SQL Tuning with Oracle SQLTXPLAIN**

Offers tips for improving the performance of any SQL database, no matter what the platform. Written for experienced database administrators familiar with SQL, the book identifies the similarities and differences of eight DBMSs, including Oracle 9i, IBM DB2 7.2, and Microsoft SQL server 2000. It provides strategies for refining sorts, subqueries, columns, tables, indexes, constraints, and locks. Annotation copyrighted by Book News, Inc., Portland, OR

## Oracle Performance Tuning

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

## Oracle SQL\*Loader

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

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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.

### **Toad for Oracle Unleashed**

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

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"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.

### **Programming Visual Basic .NET**

An introduction to Oracle's use of open source technology explores the applications of nearly one hundred open source tools, including such common applications as Linux, Perl, and Apache, as well as Oracle-specific ones such as Orasof, Orac, OracleTool, and OraSnap, and provides information on how to get them, their benefits, and more. Original.  
(Intermediate)

### **Optimizing Oracle Performance**

#### **SQL Tuning**

Successfully meeting the challenges of combining VMware and Oracle, this comprehensive reference provides a broad spectrum of technological recommendations that demonstrate how to reliably and consistently achieve optimal configuration and maximum performance for any virtualized Oracle database scenario. The guide includes the best practices for virtualized servers, suggested virtualization server configuration, and recommendations for client operating system

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configuration for Oracle in a virtualized world. With real-world examples and highly applicable advice, this handbook also details the complexities of designing, configuring, maintaining, and tuning Oracle database deployments, making it a complete compendium for keeping virtualized Oracle databases in top form.

### **Mastering Oracle SQL**

Focused squarely on the language topics of special concern to DBAs, this text contains a quick tour of the PL/SQL language, extensive coverage of security topics, and methods for DBAs to improve query and database performance with cursors and table functions.

### **Oracle SQL\*Plus**

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

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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.

## Oracle SQL\*Plus

Over the years, thousands of tools have been developed for debugging TCP/IP networks. They range from very specialized tools that do one particular task, to generalized suites that do just about everything except replace bad Ethernet cables. Even better, many of them are absolutely free. There's only one problem: who has time to track them all down, sort through them for the best ones for a particular purpose, or figure out how to use them? Network Troubleshooting Tools does the work for you--by describing the best of the freely available tools for debugging and troubleshooting. You can start with a lesser-known version of ping that diagnoses connectivity problems, or take on a much more comprehensive program like MRTG for graphing traffic through network interfaces. There's tkined for mapping and automatically monitoring networks, and Ethereal for capturing packets and debugging low-level problems. This book isn't just about the tools available for troubleshooting common network problems. It also outlines a systematic approach to network troubleshooting: how to document your network so you know how it behaves under normal conditions, and how to think about problems when they arise, so you can solve them more effectively. The topics covered in this book include:

- Understanding your network
- Connectivity testing
- Evaluating the path between two network nodes
- Tools for capturing packets
- Tools for network discovery and mapping
- Tools for working with SNMP
- Performance monitoring
- Testing application layer protocols

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Software sources If you're involved with network operations, this book will save you time, money, and needless experimentation.

### **Oracle SQL\*Plus Pocket Reference**

A guide to database benchmarking covers such topics as predictive analysis, benchmark components, testing an architecture, and maintaining SLAs.

### **Oracle PL/SQL Best Practices**

This title has a strong focus on practical, expert best-practices and on Oracle-specific SQL technique. It covers Oracle's vast library of built-in functions and the full range of Oracle SQL query-writing features.

### **Oracle SQL\*Plus: The Definitive Guide**

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

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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.

### **Oracle 12c: SQL**

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

### **Learning SQL**

This is a programmer's complete guide to Visual Basic .NET. Starting with a sample application and a high-level map, the book jumps right into showing how the parts of .NET fit with VB .NET. Topics include the

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common language runtime, Windows Forms, ASP.NET, Web Forms, Web Services, ADO.NET, transactional applications, internationalization, security, and debugging.

### **Oracle DBA Pocket Guide**

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

### **Advanced Oracle SQL Programming**

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

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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.

### **Oracle on VMware**

"Incident Response is a complete guide for organizations of all sizes and types who are addressing their computer security issues."--Jacket.

### **XML in a Nutshell**

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

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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 SQL Tuning Pocket Reference**

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.

### **Oracle PL/SQL Programming**

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

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data, formatting reports, writing scripting, and tuning SQL. There's also a command reference.

### **TOAD Pocket Reference for Oracle**

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.

### **Network Troubleshooting Tools**

Oracle SQL Tuning with SQLTXPLAIN is a practical

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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.

### **Oracle SQL\*Plus**

Provides information on advanced Oracle SQL techniques for creating complex queries and extracting and summarizing data from large tables.

### **Toad Pocket Reference for Oracle**

This book is a thorough introduction to Java Message Service (JMS), the standard Java application program interface (API) from Sun Microsystems that supports the formal communication known as "messaging" between computers in a network. JMS provides a common interface to standard messaging protocols and to special messaging services in support of Java programs. The messages exchange crucial data between computers, rather than between

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users--information such as event notification and service requests. Messaging is often used to coordinate programs in dissimilar systems or written in different programming languages. Using the JMS interface, a programmer can invoke the messaging services of IBM's MQSeries, Progress Software's SonicMQ, and other popular messaging product vendors. In addition, JMS supports messages that contain serialized Java objects and messages that contain Extensible Markup Language (XML) pages. Messaging is a powerful new paradigm that makes it easier to uncouple different parts of an enterprise application. Messaging clients work by sending messages to a message server, which is responsible for delivering the messages to their destination. Message delivery is asynchronous, meaning that the client can continue working without waiting for the message to be delivered. The contents of the message can be anything from a simple text string to a serialized Java object or an XML document. Java Message Service shows how to build applications using the point-to-point and publish-and-subscribe models; how to use features like transactions and durable subscriptions to make an application reliable; and how to use messaging within Enterprise JavaBeans. It also introduces a new EJB type, the MessageDrivenBean, that is part of EJB 2.0, and discusses integration of messaging into J2EE.

### **Oracle PL/SQL for DBAs**

Provides information on the implementation of the stored procedures in MySQL 5.0.

## Mastering Oracle SQL

### Oracle SQL Tuning

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 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

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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](http://informit.com/title/9780134131856) as it becomes available.

### **Oracle PL/SQL Programming: A Developer's Workbook**

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

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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.

### **MySQL Stored Procedure Programming**

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)

### **Database Benchmarking**

The implementation of stored procedures in MySQL 5.0 a hugemilestone -- one that is expected to lead to widespread enterprise adoption of the already extremely popular MySQL database. If you are serious about building the web-based database applications of the future, you need to get up to speed quickly on how stored procedures work -- and how to build them the right way. This book, destined to be the bible of stored procedure development, is a resource that no real MySQL programmer can afford to do without. In the decade since MySQL burst on the scene, it has become the dominant open source database, with capabilities and performance rivaling those of commercial RDBMS offerings like Oracle and SQL Server. Along with Linux and PHP, MySQL is at the heart of millions of applications. And now, with support

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for stored procedures, functions, and triggers in MySQL 5.0, MySQL offers the programming power needed for true enterprise use. MySQL's new procedural language has a straightforward syntax, making it easy to write simple programs. But it's not so easy to write secure, easily maintained, high-performance, and bug-free programs. Few in the MySQL world have substantial experience yet with stored procedures, but Guy Harrison and Steven Feuerstein have decades of combined expertise. In *MySQL Stored Procedure Programming*, they put that hard-won experience to good use. Packed with code examples and covering everything from language basics to application building to advanced tuning and best practices, this highly readable book is the one-stop guide to MySQL development. It consists of four major sections: MySQL stored programming fundamentals -- tutorial, basic statements, SQL in stored programs, and error handling Building MySQL stored programs -- transaction handling, built-in functions, stored functions, and triggers MySQL stored programs in applications -- using stored programs with PHP, Java, Perl, Python, and .NET (C# and VB.NET) Optimizing MySQL stored programs -- security, basic and advanced SQL tuning, optimizing stored program code, and programming best practices A companion web site contains many thousands of lines of code, that you can put to use immediately. Guy Harrison is Chief Architect of Database Solutions at Quest Software and a frequent speaker and writer on MySQL topics. Steven Feuerstein is the author of *Oracle PL/SQL Programming*, the classic reference for Oracle stored programming for more than ten years. Both have decades of experience as database developers,

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and between them they have authored a dozen books.

### **Relational Database Index Design and the Optimizers**

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.

### **Oracle PL/SQL Language Pocket Reference**

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,

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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 (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

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environment that can call PL/SQL stored procedures, including Visual Basic, Oracle Developer/2000, Oracle Application Server (for Web-based development), and, of course, the Oracle database itself. Built-in packages 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.

### **Java Message Service**

This book covers index design, one aspect of database tuning. It will teach the reader how to improve the performance of relational databases (IBM DB2, Oracle, Microsoft SQL Server and others) with indexes designed for current hardware (gigabytes of central storage, large disk drives with RAID 5, etc.). .

### **Oracle PL/SQL Built-ins Pocket Reference**

The Oracle SQLPlus Pocket Reference is a must-have for anyone working with Oracle databases, especially

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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.

## Oracle and Open Source

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.

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