ORACLE
High-Performance SQL Tuning

Tune SQL Statements
for Optimal Execution

DONALD K. BURLESON
Author of 12 best-selling database books and
Editor-in-chief of Oracle Internals

COVERS ORACLE DATABASE
RELEASES 7.x, 8, AND 8i

Advanced Oracle Sql Tuning The Definitive Reference

Steven Feuerstein

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　　Advanced Oracle SQL Tuning Donald K. Burleson,2014-03 It s impossible to tune an Oracle database without understanding SQL tuning Oracle is a SQL processing engine and the execution speed of any SQL query is influenced by many factors both internal and external As a declarative data access method SQL relies on the Oracle cost based optimizer to always choose the best execution plan for every SQL query However Oracle s SQL is among the most flexible and robust in the world and along with this great power comes complexity Tuning Oracle SQL is the single most important skill of any Oracle professional and Oracle professionals are challenged to create SQL statements that will support thousands of concurrent executions with sub second response time Advanced Oracle SQL Tuning is a pragmatic treatment of Oracle SQL tuning short on theory and big on real world techniques and tips This book is the culmination of the author s 25 years of full time DBA experience and he shares expert tips and secrets for hyper charging SQL execution speed This book covers advanced topics and it is not appropriate for beginners dilettantes or neophytes 　　*Oracle Tuning* Donald K. Burleson,2010 For Oracle tuning professionals wishing to add more tools to their Oracle tuning toolbox this guidebook introduces the various tuning analytical tools and helpful strategies to make the database easier to use Details describe how to extract information from the database and use it to determine and increase efficiency It also provides specific steps with detailed information on how to congeal large amounts of database performance information into one pool from which the DBA can carefully choose tuning options based on what is predicted all to give them the biggest improvement in performance for the least time and money investment Sample code sample code results and guidelines on how to interpret the results help users manipulate code in an effective way With countless hints tips and tools the guide fully explains how to work with the Oracle system on order to achieve database performance excellence 　　*Oracle Tuning* Alexey B. Danchenkov,2006-02-01 Oracle 10g has become the most complex database ever created and Oracle tuning has become increasingly complex This book provides a complete step by step approach for holistic Oracle tuning and it is the accumulated knowledge from tuning thousands of Oracle databases Incorporating the principles of artificial intelligence Oracle10g has developed a sophisticated mechanism for capturing and tracking database performance over time periods This new complexity has introduced dozens of new v and DBA views plus dozens of Automatic Workload Repository AWR tables The AWR and its interaction with the Automatic Database Diagnostic Monitor ADDM is a revolution in database tuning By understanding the internal workings of the AWR tables the senior DBA can develop time series tuning models to predict upcoming outages and dynamically change the instance to accommodate the impending resource changes This is not a book for beginners Targeted at the senior Oracle DBA this book dives deep into the internals of the v views the AWR table structures and the new DBA history views Packed with ready to run scripts you can quickly monitor and identify the most challenging performance issues 　　<u>Advanced Oracle Utilities: The Definitive Reference</u> Bert Scalzo,Donald Burleson,Steve Callan,2014-03-21 This is the definitive guide to all

Oracle utilities and it is targeted at experienced Oracle professionals who need to perform powerful system wide operating system internal operations on their Oracle databases The authors approach Oracle Utilities from a functional perspective adding value by explaining the why and how for the use of all Oracle Utilities This comprehensive book includes details on all of the Oracle utilities including experts only sections on undocumented utilities plus the Linux UNIX utilities Oracle command line utilities and the all important DBA package utilities This indispensable book covers all areas of Oracle database administration and includes secrets for database migration with Data Pump and SQL Loader and detailed tips for using The Oracle OS utilities e g BBED dbv orastack orakill The book also covers Oracle tuning utilities including ADDM and the SQL tuning advisors as well as the traditional command line tuning utilities such as dbms_alert and dbms_xplan tkprof and dbms_debug This book is special because noted Oracle experts supplement the operational considerations of Oracle utilities with expert insights and working scripts The time savings from a single utility script is easily worth the price of this definitive book This book is not for beginners These are powerful utilities to be used only by experienced DBAs and developers who need to perform powerful system wide operating system internal operations on their Oracle databases

Designing with Javascript Nick Heinle,Bill Peña,2002 A guide for beginners offers an overview of JavaScript basics and explains how to create Web pages identify browsers and integrate sound graphics and animation into Web applications

CGI Programming with Perl Scott Guelich,Shishir Gundavaram,Gunther Birznieks,2000-06-29 Programming on the Web today can involve any of several technologies but the Common Gateway Interface CGI has held its ground as the most mature method and one of the most powerful ones of providing dynamic web content CGI is a generic interface for calling external programs to crunch numbers query databases generate customized graphics or perform any other server side task There was a time when CGI was the only game in town for server side programming today although we have ASP PHP Java servlets and ColdFusion among others CGI continues to be the most ubiquitous server side technology on the Web CGI programs can be written in any programming language but Perl is by far the most popular language for CGI Initially developed over a decade ago for text processing Perl has evolved into a powerful object oriented language while retaining its simplicity of use CGI programmers appreciate Perl s text manipulation features and its CGI pm module which gives a well integrated object oriented interface to practically all CGI related tasks While other languages might be more elegant or more efficient Perl is still considered the primary language for CGI CGI Programming with Perl Second Edition offers a comprehensive explanation of using CGI to serve dynamic web content Based on the best selling CGI Programming on the World Wide Web this edition has been completely rewritten to demonstrate current techniques available with the CGI pm module and the latest versions of Perl The book starts at the beginning by explaining how CGI works and then moves swiftly into the subtle details of developing CGI programs Topics include Incorporating JavaScript for form validation Controlling browser caching Making CGI scripts secure in Perl Working with databases Creating simple search engines Maintaining state between multiple

sessions Generating graphics dynamically Improving performance of your CGI scripts **Advanced Oracle PL/SQL** Steven Feuerstein,1996 This book expands on the techniques provided in Oracle PL SQL Programming taking readers deep into the world of PL SQL packages The book provides much more than advice and examples It comes with a disk containing a full use shareware version of PL Vision a library of dozens of packages written by the author These packages greatly accelerate the development of PL SQL based applications **Running Weblogs with Slash** Chromatic,Brian Aker,Dave Krieger,2002 This is written for system administrators who may not have the time to learn about Slash by reading the source code It collects all the current Slash knowledge from the code Website and mailing lists and organizes it into a coherent package *Exim: The Mail Transfer Agent* Philip Hazel,2001-07-01 Exim delivers electronic mail both local and remote It has all the virtues of a good postman it s easy to talk to reliable efficient and eager to accommodate even the most complex special requests It s the default mail transport agent installed on some Linux systems runs on many versions of Unix and is suitable for any TCP IP network with any combination of hosts and end user mail software Exim is growing in popularity because it is open source scalable and rich in features such as the following Compatibility with the calling interfaces and options of Sendmail for which Exim is usually a drop in replacement Lookups in LDAP servers MySQL and PostgreSQL databases and NIS or NIS services Support for many kinds of address parsing including regular expressions that are compatible with Perl 5 Sophisticated error handling Innumerable tuning parameters for improving performance and handling enormous volumes of mail Best of all Exim is easy to configure You never have to deal with ruleset 3 or worry that a misplaced asterisk will cause an inadvertent mail bomb While a basic configuration is easy to read and can be created quickly Exim s syntax and behavior do get more subtle as you enter complicated areas like virtual hosting filtering and automatic replies This book is a comprehensive survey that provides quick information for people in a hurry as well as thorough coverage of more advanced material **ADO ActiveX Data Objects** Jason T. Roff,2001 The architecture of ADO ActiveX Data Objects Microsoft s newest form of database communication is simple concise and efficient This indispensable reference takes a comprehensive look at every object collection method and property of ADO for developers who want to get a leg up on this technology **Oracle PL/SQL Programming** Steven Feuerstein,Bill Pribyl,1997 An update to the popular bible for PL SQL developers this second edition updates the Oracle8 material and includes chapters on Oracle8 object types object views collections external procedures and large object types and functions It also covers new strategies for tuning tracing and debugging PL SQL programs and offers many new programs on the accompanying disk Java Message Service David Chappell,Richard Monson-Haefel,2007-06-26 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 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   **Web Performance Tuning** Patrick Killelea,1998 Get the best performance from the Web Aimed at Web administrators content developers and users Web Performance Tuning covers general principles of performance such as network latency and caching It also gives specific tips on tuning Web browsers Web servers operating systems and hardware for best performance   *XML in a Nutshell* Elliotte Rusty Harold,W. Scott Means,2001 Introduces the basic rules of XML syntax for document markup the details of document type definition DTD creation and the APIs used to read and write XML documents in a variety of programming languages A series of quick reference chapters lists syntax rules for XPath XSLT SAX and DOM c Book News Inc   Incident Response Kenneth R. Van Wyk,Richard Forno,2001 Incident Response is a complete guide for organizations of all sizes and types who are addressing their computer security issues Jacket   Network Troubleshooting Tools Joseph D Sloan,2001 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

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