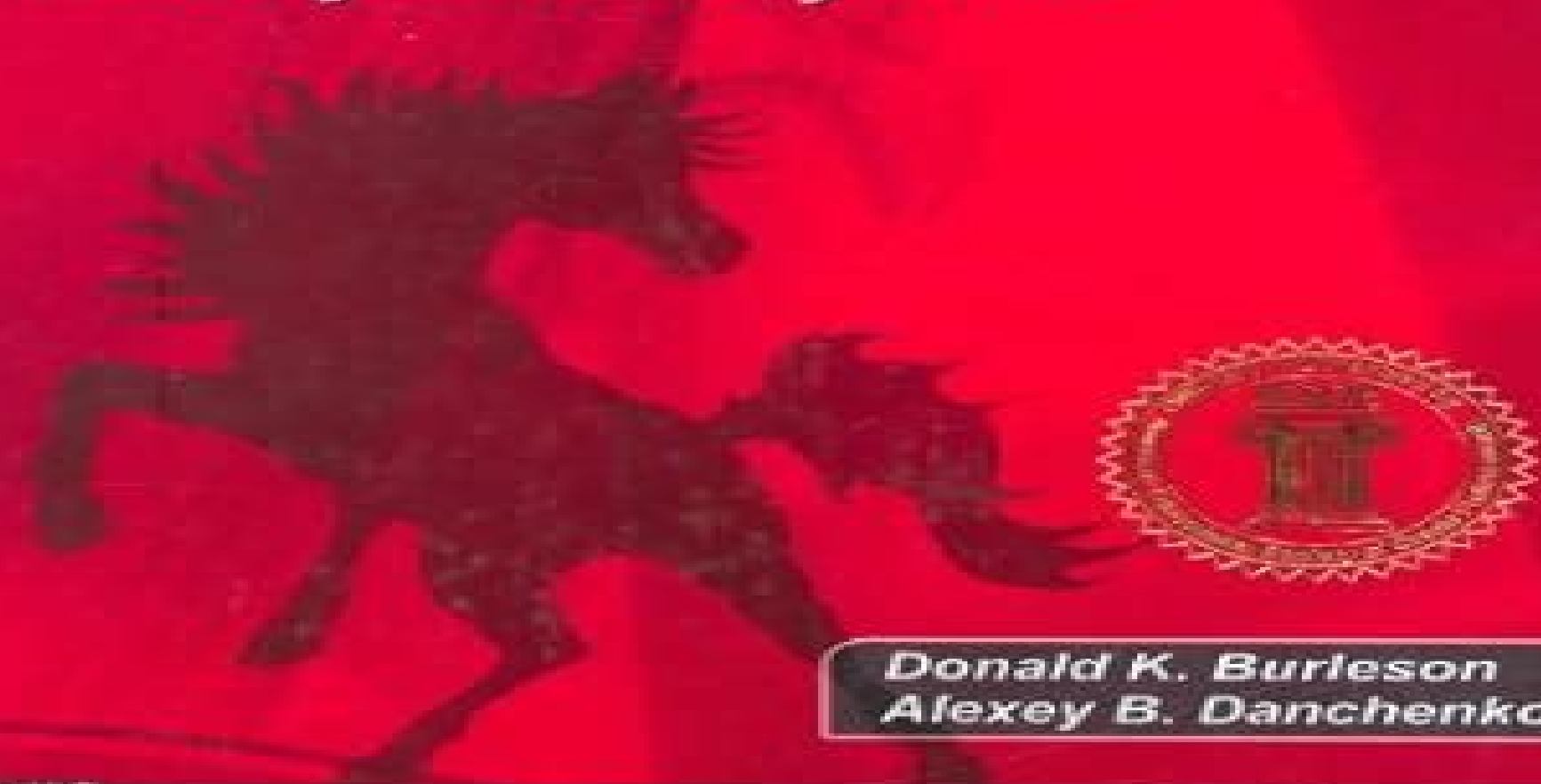


Oracle In-Focus

Oracle Tuning

The Definitive Reference



Donald K. Burleson
Alexey B. Danchenkov



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Oracle Tuning The Definitive Reference Oracle In Focus Series

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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 *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** 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 Oracle 10g 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 **Oracle PL/SQL Tuning** Timothy S. Hall, 2006 Oracle experts know that PL SQL tuning makes a huge difference in execution speed As one of the world s most popular and

respected experts Dr Tim Hall shares his secrets for tuning Oracle PL SQL This indispensable book shows how to hypercharge Oracle applications gaining as much as 30x improvement in execution speed using under documented code tricks Packed with working examples learn how to re write SQL into PL SQL and how to use advanced Oracle bulk array processing techniques to achieve super high performance You can save your company millions of dollars in hardware costs by making your applications run at peak efficiency Targeted at the Senior Oracle DBA and developer this advanced book illustrates powerful techniques that can make PL SQL run faster than ever before This book is not for beginners and should only be purchased by seasoned Oracle professionals who must turbocharge their applications Your time savings from a single script is worth the price of this great book *Oracle Tuning: The Definitive Reference* Donald K. Burleson, 2014-02 Oracle has become the world's most flexible and robust database and along with great power comes great complexity This complexity requires that the DBA have expert knowledge of Oracle internals This book provides a thorough step by step approach for holistic Oracle tuning in this challenging information technology era It represents the knowledge accumulated from tuning thousands of Oracle databases Oracle tuning has always been a complex task however it has become even more complex as Oracle evolves and yields new techniques for achieving optimal performance in the stressed production environment of today's high tech world Oracle STATSPACK and AWR has introduced a revolution in database tuning By understanding these time series tables we can develop time series tuning models to predict upcoming outages and dynamically change the instance to accommodate the impending resource changes Database tuning efforts must become as sophisticated as the databases themselves This book strives to show you how to leverage upon the wealth of Oracle performance information so that you can create a robust Oracle database engine one that maximizes computing resources while minimizing overhead If you are seeking theory this is not the book for you This book encapsulates the combined knowledge of over a century of hands on DBA tuning experience a pragmatic practical approach for the professional Oracle DBA This is not a book for beginners Targeted at the senior Oracle DBA this comprehensive book gives you all of the knowledge you need to be successful in tuning even the most complex Oracle database The code download for this book is packed with ready to run scripts to monitor and identify even the most challenging performance issues *Oracle Disk I/O Tuning* Mike Ault, 2004-04 Covering all aspects of Oracle disk I/O tuning this book explores disk performance RAID management Oracle data file performance and Oracle data segment internals Also explored is physical disk I/O which includes disk device internals detecting disk bottlenecks disk organization techniques and disk striping and disk load balancing Highlighted are RAID and Oracle performance as well as techniques for effective use of RAID with Oracle Additionally Oracle data file internals are considered and how to use multiple data block sizes to detect and repair Oracle data segment bottlenecks and segment waits is described Oracle segment management is illustrated and the effective use of Oracle segment partitioning segment slot internals and monitoring segment I/O is explained **Oracle SQL*Plus: The**

Definitive Guide Jonathan Gennick,2004-11-16 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 Database 10g The Complete Reference](#) Kevin Loney,2004-09-28 Get a thorough understanding of Oracle Database 10g from the most comprehensive Oracle database reference on the market published by Oracle Press From critical architecture concepts to advanced object oriented concepts this powerhouse contains nearly 50 chapters designed to enlighten you Upgrade from earlier versions use SQL SQL Plus and PL SQL Get code examples and access popular documentation PDFs plus a full electronic copy of the book on the included CD ROM Go beyond the basics and learn security text searches external tables using Java in Oracle and a great deal more **Oracle Cloud Infrastructure Explained** Richard Johnson,2025-06-06 Oracle Cloud Infrastructure Explained Master the complexities of modern cloud deployments with Oracle Cloud Infrastructure Explained the definitive technical guide for architects engineers and IT leaders navigating today s enterprise cloud transformation This comprehensive resource provides a meticulous walkthrough of Oracle Cloud Infrastructure OCI starting from foundational architecture and tenancy models through advanced resource management governance and service level objectives Each chapter distills OCI s core building blocks and operational strategies equipping readers to design highly resilient and scalable environments from the ground up Delving into the pillars of secure cloud operations the book explores identity and access management regulatory compliance automated provisioning and robust DevOps patterns tailored for OCI With dedicated coverage of network and storage design automated infrastructure as code and cloud native enablement including Kubernetes serverless and microservices readers gain actionable insights into optimizing cost performance and security for critical workloads The architecture centric approach offers practical guidance on integrating hybrid and multi cloud environments supporting migration journeys and ensuring operational excellence at enterprise scale Looking ahead Oracle Cloud Infrastructure Explained addresses future facing innovations and emerging challenges from machine learning and AI integrations to green cloud engineering and zero trust security Numerous real world scenarios reference architectures and

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Performance: The Definitive Guide Scott Oaks,2014-04-10 Coding and testing are often considered separate areas of expertise In this comprehensive guide author and Java expert Scott Oaks takes the approach that anyone who works with Java should be equally adept at understanding how code behaves in the JVM as well as the tunings likely to help its performance You ll gain in depth knowledge of Java application performance using the Java Virtual Machine JVM and the Java platform including the language and API Developers and performance engineers alike will learn a variety of features tools and processes for improving the way Java 7 and 8 applications perform Apply four principles for obtaining the best results from performance testing Use JDK tools to collect data on how a Java application is performing Understand the advantages and disadvantages of using a JIT compiler Tune JVM garbage collectors to affect programs as little as possible Use techniques to manage heap memory and JVM native memory Maximize Java threading and synchronization performance features Tackle performance issues in Java EE and Java SE APIs Improve Java driven database application performance

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