

**Oracle In-Focus**

# *Creating a Self-Tuning Oracle Database*

*Automating Oracle9i Dynamic SGA  
Performance*

**Donald K. Burleson**



**RAMPANT**

**Don Burleson**  
Series Editor

# Creating A Selftuning Oracle Database Automated Oracle9i Dynamic Sga Performance

**Bob Bryla,Biju Thomas**



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*Physical Database Design Using Oracle* Donald K. Burleson, 2004-07-27 The evolution of Oracle has led to a revolution in design practices For Oracle 10g database physical structures have become more complex than ever before and database designers face multiple ways to implement their logical models IS students studying database design and administration need to be able to implement management systems in a way that

*American Book Publishing Record*, 2004

**Oracle Data Warehousing and Business Intelligence Solutions** Robert Stackowiak, Joseph Rayman, Rick Greenwald, 2007-01-06 Up to date comprehensive coverage of the Oracle database and business intelligence tools Written by a team of Oracle insiders this authoritative book provides you with the most current coverage of the Oracle data warehousing platform as well as the full suite of business intelligence tools You ll learn how to leverage Oracle features and how those features can be used to provide solutions to a variety of needs and demands Plus you ll get valuable tips and insight based on the authors real world experiences and their own implementations Avoid many common pitfalls while learning best practices for Leveraging Oracle technologies to design build and manage data warehouses Integrating specific database and business intelligence solutions from other vendors Using the new suite of Oracle business intelligence tools to analyze data for marketing sales and more Handling typical data warehouse performance challenges Uncovering initiatives by your business community security business sponsorship project staffing and managing risk

*Oracle9i UNIX Administration Handbook* Donald K. Burleson, 2002 The definitive book covering Oracle databases in UNIX environments the fastest growing segment of the Oracle database market This guide contains proven techniques and UNIX scripts that can be used to perform dozens of UNIX related tasks

[Advanced Tuning for JD Edwards EnterpriseOne Implementations](#) Michael Jacot, Allen Jacot, Gurbinder Bali, Frank Jordan, Patrick Scott, Kyle Kinder, 2013-07-16 Best Practices for JD Edwards Enterprise One Tuning and Optimization Achieve peak performance from your ERP platform while minimizing downtime and lowering TCO Advanced Tuning for JD Edwards Enterprise One Implementations shows how to plan and adopt a structured top to bottom maintenance methodology Uncover and eliminate bottlenecks maximize efficiency at every component layer troubleshoot databases and web servers automate system testing and handle mobile issues This Oracle Press guide offers complete coverage of the latest cloud clustering load balancing and virtualization solutions Understand the components of a structured tuning plan Establish benchmarks and implement key industry practices Perform changes and accurately measure system wide impact Diagnose and repair HTTP web application and Java issues Troubleshoot Oracle Database connections and transactions Streamline Oracle s JD Edwards EnterpriseOne kernel and JDENet processes Configure test and manage virtual machines and servers Work with Oracle Exadata Database Machine and Oracle Exalogic Elastic Cloud

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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 High Performance Tuning for 9i and 10g* Gavin JT Powell,2003-12-29 There are three parts to tuning an Oracle database data modeling SQL code tuning and physical database configuration A data model contains tables and relationships between tables Tuning a data model involves normalization and de normalization Different approaches are required depending on the application such as OLTP or a Data Warehouse Inappropriate database design can make SQL code impossible to tune Poor data modeling can have a most profound effect on database performance since all SQL code is constructed from the data model Poorly written SQL code is often a culprit of performance problems and is expensive to rectify However tuning of SQL code is generally cheaper than changing the data model SQL code tends to be contained inside independent blocks within applications or stored procedures Physical database tuning involves hardware resource usage networking and various other Oracle things such as configuration and file distribution Physical configuration is often a culprit of poor performance where Oracle is installed with defaults and never altered by an expert Includes all three aspects of Oracle database tuning data model tuning SQL PL SQL code tuning physical plus configuration tuning Contains experienced guidance and real world examples using large datasets Emphasizes development as opposed to operating system perspective Database Performance Tuning and Optimization Sitansu S. Mittra,2006-04-18 Scope The book provides comprehensive coverage of database performance tuning and optimization using Oracle 8i as the RDBMS The chapters contain both theoretical discussions dealing with principles and methodology as well as actual SQL scripts to implement the methodology The book combines theory with practice so as to make it useful for DBAs and developers irrespective of whether they use Oracle 8i Readers who do not use Oracle 8i can implement the principles via scripts of their own written for the particular RDBMS they use I have tested each script for accuracy and have included the sample outputs generated from them An operational database has three levels conceptual internal and external The conceptual level results from data modeling and logical database design When it is implemented via an RDBMS such as Oracle it is mapped onto the internal level Database objects of the conceptual level are associated with their physical counterparts in the internal level An external level results from a query against the database and as such provides a window to the database There are many external levels for a single conceptual level **Oracle Performance Tuning for 10gR2** Gavin JT Powell,2011-04-08 Tuning of SQL code is generally cheaper than changing the data model Physical and configuration tuning involves a search for bottlenecks that often points to SQL code or data model issues Building an appropriate data model and writing properly performing SQL code can give 100% performance improvement Physical and configuration tuning often gives at most a 25% performance increase Gavin Powell shows that the central theme of Oracle10gR2 Performance Tuning is four fold denormalize data models to fit applications tune SQL code according to both the data model and the application in relation to scalability create a well proportioned physical architecture at the time of initial Oracle installation and most important mix

skill sets to obtain the best results Fully updated for version 10gR2 and provides all necessary transition material from version 9i Includes all three aspects of Oracle database tuning data model tuning SQL PL SQL code tuning physical plus configuration tuning Contains experienced guidance and real world examples using large datasets Emphasizes development as opposed to operating system perspective [Oracle 9i High-Performance Tuning With Statspack](#) Burleson,2004 This book explains how to use this versatile tool to capture analyze and report on your database as well as how to monitor tune and optimize system performance Get complete coverage of STATSPACK with this official guide includes ready to use STATSPACK scripts to collect and analyze system data and achieve peak performance **Oracle DBA Automation Quick Reference** Charlie Russel,Robert Cordingley,2004 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 **Dynamic Oracle Performance Analytics** Roger Cornejo,2018-12-06 Use an innovative approach that relies on big data and advanced analytical techniques to analyze and improve Oracle Database performance The approach used in this book represents a step change paradigm shift away from traditional methods Instead of relying on a few hand picked favorite metrics or wading through multiple specialized tables of information such as those found in an automatic workload repository AWR report you will draw on all available data applying big data methods and analytical techniques to help the performance tuner draw impactful focused performance improvement conclusions This book briefly reviews past and present practices along with available tools to help you recognize areas where improvements can be made The book then guides you through a step by step method that can be used to take advantage of all available metrics to identify problem areas and work toward improving them The method presented simplifies the tuning process and solves the problem of metric overload You will learn how to collect and normalize data generate deltas that are useful in performing statistical analysis create and use a taxonomy to enhance your understanding of problem performance areas in your database and its applications and create a root cause analysis report that enables understanding of a specific performance problem and its likely solutions What You ll Learn Collect and prepare metrics for analysis from a wide array of sources Apply statistical techniques to select relevant metrics Create a taxonomy to provide additional insight into problem areas Provide a metrics based root cause analysis regarding the performance issue Generate an actionable tuning plan prioritized according to problem areas Monitor performance using database specific normal ranges Who This Book Is For Professional tuners responsible for maintaining the efficient operation of large scale databases who wish to focus on analysis who want to expand their repertoire to include a big data methodology and use metrics without being overwhelmed who desire to provide accurate root cause analysis and avoid the cyclical fix test cycles that are inevitable when speculation is used [Oracle 9i Database](#) Charles A. Pack,2002 [Oracle Essentials](#) Rick Greenwald,Robert Stackowiak,Jonathan Stern,2007-11-01 Oracle is an enormous system with myriad technologies options and releases Most users even experienced developers and database

administrators find it difficult to get a handle on the full scope of the Oracle database And as each new Oracle version is released users find themselves under increasing pressure to learn about a whole range of new technologies The latest challenge is Oracle Database 11g This book distills an enormous amount of information about Oracle into a compact easy to read volume filled with focused text illustrations and helpful hints It contains chapters on Oracle products options data structures and overall architecture for Oracle Database 11g as well as earlier releases Oracle Database 10g Oracle9i and Oracle8i Installing running managing monitoring networking and tuning Oracle including Enterprise Manager EM and Oracle s self tuning and management capabilities and using Oracle security auditing and compliance a new chapter in this edition Multiuser concurrency data warehouses distributed databases online transaction processing OLTP high availability and hardware architectures e g SMP clusters NUMA and grid computing Features beyond the Oracle database Oracle Application Express Fusion Middleware including Oracle Application Server and database SOA support as a Web services provider The latest Oracle Database 11g features query result set caching Automatic Memory Management the Real Application Testing Advanced Compression Total Recall and Active Data Guard Option Options changes to the OLAP Option transparently accessed and managed as materialized views the Flashback transaction command transparent data encryption the Support Workbench and diagnosability infrastructure and partitioning enhancements including interval and new composite types For new Oracle users DBAs developers and managers Oracle Essentials provides an invaluable all in one introduction to the full range of Oracle features and technologies including the just released Oracle Database 11g features But even if you already have a library full of Oracle documentation you ll find that this compact book is the one you turn to again and again as your one stop truly essential reference Oracle Essentials gives a clear explanation of the key database concepts and architecture underlying the Oracle database It s a great reference for anyone doing development or management of Oracle databases Andrew Mendelsohn Senior Vice President Database Server Technologies Oracle Corporation

**Oracle9i Performance Tuning Tips & Techniques** Richard Niemiec,2003-05-12 From the exclusive publishers of Oracle Press books comes a unique volume packed with undocumented tips techniques for tuning and tailoring Oracle9i to perform at its peak Author Rich Niemiec has been named by Oracle Corporation as one of the top six Oracle experts in the world

**Automated Database Tuning Using Dynamic SGA Parameters** Hitesh Kumar Sharma,2017-06-13

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