



# Running Oracle Applications on **Oracle Exadata**: Tuning Tips & Techniques

Maximize the Performance of Migrated Applications

Joyjeet Banerjee

*Oracle  
Press*

# Running Applications On Oracle Exadata Tuning Tips Techniques Tips Technique

**Kevin Meade**



## **Running Applications On Oracle Exadata Tuning Tips Techniques Tips Technique:**

**Running Applications on Oracle Exadata** Joyjeet Banerjee, 2015-01-05 Maximize Application Performance on Oracle Exadata Written by an enterprise architect specializing in applications on Oracle's engineered systems Running Applications on Oracle Exadata Tuning Tips Techniques reveals proven methods for configuring and tuning Oracle Exadata to achieve peak results from applications You'll get complete details on application migration consolidation and administration Deliver unparalleled enterprise application performance on Oracle Exadata using the best practices provided in this Oracle Press guide Understand Oracle Exadata architecture hardware components and software features Achieve peak performance from online transaction processing OLTP systems Size Oracle Exadata for applications using comparative and predictive methods Migrate and consolidate applications to Oracle Exadata Monitor manage and administer all Oracle Exadata components to ensure high availability and performance Develop and implement a backup and recovery strategy Learn best practices for running applications on Oracle Exadata Code examples in the book are available for download at OraclePressBooks.com

**Oracle Database 11g Release 2 Performance Tuning Tips & Techniques** Richard Niemiec, 2012-03-22 Implement Proven Database Optimization Solutions 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 11g Release 2 Performance Tuning Tips Techniques details the latest monitoring troubleshooting and optimization methods Find out how to find and fix bottlenecks 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 11g Release 2 Work with Oracle Exadata and Oracle Exalogic Elastic Cloud Efficiently manage disk drives RAID arrays and memory Tune queries with Oracle SQL hints and the TRACE utility Troubleshoot databases using V views and X tables Distribute workload using Oracle Real Application Testing Generate reports using Oracle's Statspack and Automatic Workload Repository tools Use sar vmstat and iostat to monitor system statistics This is a timely update of Rich's classic book on Oracle Database performance tuning to cover hot new topics like Oracle Database 11g Release 2 and Oracle Exadata This is a must have for DBAs moving to these new products Andrew Mendelsohn Senior Vice President Oracle Database Server Technologies

**Oracle Database 12c Release 2 Performance Tuning Tips & Techniques** Richard Niemiec, 2017-03-22 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

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**Running Applications on Oracle Exadata** Joyjeet Banerjee, 2015 Authored by an enterprise architect specializing in applications on Oracle's engineered systems this Oracle Press guide reveals proven methods for configuring and tuning Oracle Exadata to achieve peak results from applications

*Oracle PL/SQL Performance Tuning Tips & Techniques* Michael Rosenblum, Paul Dorsey, 2014-08-29 Proven PL SQL Optimization Solutions In Oracle PL SQL Performance Tuning Tips Techniques Oracle ACE authors with decades of experience building complex production systems for government industry and educational organizations present a hands on approach to enabling optimal results from PL SQL The book begins by describing the discovery process required to pinpoint performance problems and then provides measurable and repeatable test cases In depth coverage of linking SQL and PL SQL is followed by deep dives into essential Oracle Database performance tuning tools Real world examples and best practices are included throughout this Oracle Press guide Follow a request driven nine step process to identify and address performance problems in web applications Use performance related database tools including data dictionary views logging tracing PL SQL Hierarchical Profiler PL Scope and RUNSTATS Instrument code to pinpoint performance issues using call stack APIs error stack APIs and timing markers Embed PL SQL in SQL and manage user defined functions Embed SQL in PL SQL using a set based approach to handle large volumes of data Properly write and deploy data manipulation language triggers to avoid performance problems Work with advanced datatypes including LOBs and XML Use caching techniques to avoid redundant operations Effectively use dynamic SQL to reduce the amount of code needed and streamline system management Manage version control and ensure that performance fixes are successfully deployed Code examples in the book are available for download

*Oracle Performance Survival Guide* Guy Harrison, 2009-10-09 Oracle Performance Survival Guide A Systematic Approach to Database Optimization The fast complete start to finish guide to optimizing Oracle performance Oracle Performance Survival Guide offers a structured systematic start to finish methodology for optimizing Oracle performance as efficiently as possible Leading Oracle expert Guy Harrison shows how to maximize your tuning investment by focusing on causes rather than symptoms and by quickly identifying the areas that deliver the greatest bang for the buck Writing for DBAs and developers with all levels of experience Harrison covers every area of Oracle performance management from application design through SQL tuning contention management through memory and physical IO management He also presents up to the minute guidance for optimizing the performance of the Oracle 11g Release 2 You'll start by mastering Oracle structured performance tuning principles and tools including techniques for tracing and monitoring Oracle execution Harrison

illuminates the interaction between applications and databases guides you through choosing tuning tools and introduces upfront design techniques that lead to higher performance applications He also presents a collection of downloadable scripts for reporting on all aspects of database performance Coverage includes Tuning by layers the most effective highest value approach to Oracle performance optimization Making the most of Oracle s core tools for tracing monitoring and diagnosing performance Highly efficient database logical and physical design indexing transaction design and API use SQL and PL SQL tuning including the use of parallel SQL techniques Minimizing contention for locks latches shared memory and other database resources Optimizing memory and physical disk IO Tuning Real Application Cluster RAC databases guyharrison net informit com ph *Oracle Database 10g Performance Tuning Tips & Techniques* Richard Niemiec,2007-07-16 Offers hundreds of hints tips and tricks of the trade that can be useful to any DBA wanting to achieve maximum performance of Oracle applications No Oracle library would be complete without this book Ken Dr DBA Jacobs Vice President of Product Strategy for Server Technologies Oracle Corporation Rich is the first and last stop for Oracle Database technology and performance tuning His knowledge is a vital tool that you need to successfully negotiate the waters of Oracle database development Mike Frey Principal Architect Navteq *Oracle Database 11 G Release 2 Performance Tuning Tips & Techniques* Richard J. Niemiec,2012 *Oracle Exadata Expert's Handbook* Tariq Farooq,Charles Kim,Nitin Vengurlekar,Sridhar Avantsa,Guy Harrison,Syed Jaffar Hussain,2015-06-12 The Practical Authoritative 360 Degree Technical Guide to Oracle Exadata From Setup to Administration Optimization Tuning and Troubleshooting The blazingly fast Oracle Exadata Database Machine is being embraced by thousands of large scale users worldwide by governments the military enterprise organizations cloud service providers and anyone who needs extreme performance Now Oracle Exadata Expert s Handbook provides authoritative guidance to running Oracle Exadata with maximum reliability effectiveness performance and efficiency Six renowned Oracle technology experts have brought together core technical information experience best practices and insider tips in a concise reference Covering both 11g and 12c versions of Oracle Exadata software they deliver hands on coverage of best practices setup migration monitoring administration performance tuning and troubleshooting Whether you re an Oracle Exadata DBA DMA architect or manager you need these insights Get a 360 degree overview of the Oracle Exadata Database Machine Efficiently deploy RAC within the Oracle Exadata ecosystem Fully leverage Storage Cell s extraordinary performance via Offloading Smart Scans and Hybrid Columnar Compression Manage Exadata with OEM 12c perform setup configuration asset target discovery and day to day administration Tune Oracle Exadata for even better performance Perform Exadata Backup Recovery DR with RMAN and Data Guard Migrate to Oracle Exadata from other platforms Use Oracle Exadata with the ZFS Storage Appliance Consolidate within the Exadata Database Cloud *Oracle E-Business Suite 12 Tuning Tips & Techniques* Richard Bingham,2013-10-04 Master Oracle E Business Suite 12 Performance Tuning and Optimization Deliver on the promise of lower TCO and achieve operational excellence by implementing a

comprehensive enterprise application management process Oracle E Business Suite 12 Tuning Tips Techniques offers detailed coverage of the versatile tools features and services available for managing application reliability availability performance optimization and governance Best practices for maintaining overall application health and supporting evolving priorities technologies and systems are also included in this Oracle Press guide Get a comprehensive technical and functional overview of Oracle E Business Suite 12 Plan develop and implement a management lifecycle strategy Execute an effective reliability management solution Monitor and maintain availability Improve application speed and performance Optimize Oracle E Business Suite for short term flexibility and long term strategic goals Implement strong application governance processes Measure the success and performance of your management plan Maintain an agile future ready Oracle E Business Suite platform

**High-Performance Oracle** Geoff Ingram, 2002-10-01 Geoff Ingram has met the challenge of presenting the complex process of managing Oracle performance This book can support every technical person looking to resolve Oracle8i and Oracle9i performance issues Aki Ratner President Precise Software Solutions Ensuring high performance and continuous availability of Oracle software is a key focus of database managers At least a dozen books address the subject of performance tuning that is how to fine tune the Oracle database for its greatest processing efficiency Geoff Ingram argues that this approach simply isn't enough He believes that performance needs to be addressed right from the design stage and it needs to cover the entire system not just the database High Performance Oracle is a hands on book loaded with tips and techniques for ensuring that the entire Oracle database system runs efficiently and doesn't break down Written for Oracle developers and DBAs and covering both Oracle8i and Oracle9i the book goes beyond traditional performance tuning books and covers the key techniques for ensuring 24/7 performance and availability of the complete Oracle system The book provides practical solutions for Choosing physical layout for ease of administration and efficient use of space Managing indexes including detecting unused indexes and automating rebuilds SQL and system tuning using the powerful new features in Oracle9i Release 2 Improving SQL performance without modifying code Running Oracle Real Application Clusters RAC for performance and availability Protecting data using Recover Manager RMAN and physical and logical standby databases The companion Web site provides the complete source code for examples in the book updates on techniques and additional documentation for optimizing your Oracle system

*Oracle Exadata Expert's Handbook* Tariq Farooq, 2015 **Oracle Database Exadata Cloud Service: A Beginner's Guide** Brian Spendolini, 2018-11-07 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product Quickly Get Up and Running on Oracle Database Exadata Cloud Service Quickly install configure and start using Oracle Database Exadata Cloud Service with the hands on information contained in this comprehensive Oracle Press guide Designed for easy learning the book features real world examples detailed illustrations and step by step instructions Oracle Database Exadata Cloud Service A Beginner's Guide walks you through the basics and shows you how to

provision create and deploy databases Basic system administration tasks including data backup and recovery software patching and system updating are clearly explained Advanced monitoring and data compression techniques are also covered Inside you ll discover how to Set up and configure Oracle Database Exadata Cloud Service Navigate the user interface Work with tooling and CLIs Deploy smart scans and storage indexes Employ the latest compression techniques Handle Oracle Exadata resource management Administer Oracle Exadata Smart Flash Cache Manage and monitor your Oracle Exadata Cloud Service Migrate to Oracle Exadata Cloud Service TAG For a complete list of Oracle Press titles visit [www.OraclePressBooks.com](http://www.OraclePressBooks.com)

**Oracle Performance Tuning Tips & Techniques** Richard J. Niemiec,1999-01-01 Tuning skills are in high demand in Oracle communication and this guide gives specific examples to build performance tuning skill sets Database administrators will find helpful hints and useful information to help them get optimal performance from Oracle RDBMS environments

*Oracle SQL Performance Tuning and Optimization* Kevin Meade,2014-09-16 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 Database 10g Performance Tuning](#) Richard J. Niemiec, 2007 *Oracle: Performance Tuning: Tips And Techniques* Niemiec, *Oracle Applications DBA Field Guide* Paul Jackson, Elke Phelps, 2006-11-22 Oracle Applications DBA Field Guide provides scripts, notes, guidelines, and references to guide you safely through the crucial day-to-day administration tasks that fall within your jurisdiction. This includes configuring, monitoring, performance tuning, troubleshooting, and patching. This book contains tips, techniques, and guidance for administering the highly complex Oracle E-Business Suite running Oracle9i or Oracle10g on UNIX or Linux servers, all in an easy-to-read and quick-to-navigate format. Even for the experienced database administrator, Oracle applications are complicated to administer, and most other documentation out there is difficult to find and understand. Whether you're an experienced Oracle database administrator or a relative newcomer to Oracle 11i Applications, perhaps migrating from PeopleSoft, JD Edwards, or Siebel, this book will enable you to make a real impact on the ease and efficiency of your day-to-day administrative tasks and is relevant for Oracle releases 12 and Fusion. [Oracle Performance Tuning 101](#) Gaja Krishna Vaidyanatha, Kirtikumar Deshpande, John Kostelac, 2001 Tuning Oracle databases or Oracle Performance Management OPM is what database administrators (DBAs) do to help the database run optimally. With the increase in e-commerce and deployment of databases and applications on the Internet, the task of keeping databases running is becoming increasingly important. This entry-level study teaches the essentials of keeping databases running at top performance. The guide covers releases 7.3 through 8i for NT, Linux, and Unix platforms. **Oracle Exadata Survival Guide** David Fitzjarrell, Mary Spence, 2013-11-29 Oracle Exadata Survival Guide is a hands-on guide for busy Oracle database administrators who are migrating their skill sets to Oracle's Exadata database appliance. The book covers the concepts behind Exadata and the available configurations for features such as smart scans, storage indexes, Smart Flash Cache, hybrid columnar compression, and more. You'll learn about performance metrics and execution plans and how to optimize SQL running in Oracle's powerful new environment. The authors also cover migration from other servers. Oracle Exadata is fast becoming the standard for large installations such as those running data warehouse, business intelligence, and large-scale OLTP systems. Exadata is like no other platform and is new ground even for experienced Oracle database administrators. The Oracle Exadata Survival Guide helps you navigate the ins and outs of this new platform, demystifying this amazing appliance and its exceptional performance. The book takes a highly practical approach, not diving too deeply into the details but giving you just the right depth of information to quickly transfer your skills to Oracle's important new platform. Helps transfer your skills to the platform of the future. Covers the important ground without going too deep. Takes a practical and hands-on approach to everyday tasks.



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## **Table of Contents Running Applications On Oracle Exadata Tuning Tips Techniques Tips Technique**

1. Understanding the eBook Running Applications On Oracle Exadata Tuning Tips Techniques Tips Technique
  - The Rise of Digital Reading Running Applications On Oracle Exadata Tuning Tips Techniques Tips Technique
  - Advantages of eBooks Over Traditional Books
2. Identifying Running Applications On Oracle Exadata Tuning Tips Techniques Tips Technique
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Running Applications On Oracle Exadata Tuning Tips Techniques Tips Technique

- User-Friendly Interface
- 4. Exploring eBook Recommendations from Running Applications On Oracle Exadata Tuning Tips Techniques Tips Technique
  - Personalized Recommendations
  - Running Applications On Oracle Exadata Tuning Tips Techniques Tips Technique User Reviews and Ratings
  - Running Applications On Oracle Exadata Tuning Tips Techniques Tips Technique and Bestseller Lists
- 5. Accessing Running Applications On Oracle Exadata Tuning Tips Techniques Tips Technique Free and Paid eBooks
  - Running Applications On Oracle Exadata Tuning Tips Techniques Tips Technique Public Domain eBooks
  - Running Applications On Oracle Exadata Tuning Tips Techniques Tips Technique eBook Subscription Services
  - Running Applications On Oracle Exadata Tuning Tips Techniques Tips Technique Budget-Friendly Options
- 6. Navigating Running Applications On Oracle Exadata Tuning Tips Techniques Tips Technique eBook Formats
  - ePub, PDF, MOBI, and More
  - Running Applications On Oracle Exadata Tuning Tips Techniques Tips Technique Compatibility with Devices
  - Running Applications On Oracle Exadata Tuning Tips Techniques Tips Technique Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Running Applications On Oracle Exadata Tuning Tips Techniques Tips Technique
  - Highlighting and Note-Taking Running Applications On Oracle Exadata Tuning Tips Techniques Tips Technique
  - Interactive Elements Running Applications On Oracle Exadata Tuning Tips Techniques Tips Technique
- 8. Staying Engaged with Running Applications On Oracle Exadata Tuning Tips Techniques Tips Technique
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Running Applications On Oracle Exadata Tuning Tips Techniques Tips Technique
- 9. Balancing eBooks and Physical Books Running Applications On Oracle Exadata Tuning Tips Techniques Tips Technique
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Running Applications On Oracle Exadata Tuning Tips Techniques Tips Technique
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain

- Minimizing Distractions
- Managing Screen Time
- 11. Cultivating a Reading Routine Running Applications On Oracle Exadata Tuning Tips Techniques Tips Technique
  - Setting Reading Goals Running Applications On Oracle Exadata Tuning Tips Techniques Tips Technique
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Running Applications On Oracle Exadata Tuning Tips Techniques Tips Technique
  - Fact-Checking eBook Content of Running Applications On Oracle Exadata Tuning Tips Techniques Tips Technique
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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