

# Oracle Performance Tuning



# Oracle 11gr2 Performance Tuning Guide

**Lauren Gardner**



## **Oracle 11gr2 Performance Tuning Guide:**

**Oracle Database Performance and Scalability** Henry H. Liu, 2011-10-24 The innovative performance and scalability features with each newer edition of the Oracle database system can present challenges for users This book teaches software developers and students how to effectively deal with Oracle performance and scalability issues throughout the entire life cycle of developing Oracle based applications Using real world case studies to deliver key theories and concepts the book introduces highly dependable and ready to apply performance and scalability optimization techniques augmented with Top 10 Oracle Performance and Scalability Features as well as a supplementary support website *POWER7 and POWER7+ Optimization and Tuning Guide* Brian Hall, Mala Anand, Bill Buros, Miso Cilimdžić, Hong Hua, Judy Liu, John MacMillan, Sudhir Maddali, K Madhusudanan, Bruce Mealey, Steve Munroe, Francis P O'Connell, Sergio Reyes, Raul Silvera, Randy Swanberg, Brian Twichell, Brian F Veale, Julian Wang, Yaakov Yaari, IBM Redbooks, 2013-03-04 This IBM Redbooks publication provides advice and technical information about optimizing and tuning application code to run on systems that are based on the IBM POWER7 and POWER7 TM processors This advice is drawn from application optimization efforts across many different types of code that runs under the IBM AIX and Linux operating systems focusing on the more pervasive performance opportunities that are identified and how to capitalize on them The technical information was developed by a set of domain experts at IBM The focus of this book is to gather the right technical information and lay out simple guidance for optimizing code performance on the IBM POWER7 and POWER7 systems that run the AIX or Linux operating systems This book contains a large amount of straightforward performance optimization that can be performed with minimal effort and without previous experience or in depth knowledge This optimization work can Improve the performance of the application that is being optimized for the POWER7 system Carry over improvements to systems that are based on related processor chips Improve performance on other platforms The audience of this book is those personnel who are responsible for performing migration and implementation activities on IBM POWER7 based servers which includes system administrators system architects network administrators information architects and database administrators DBAs *Oracle Database 11g Release 2 Performance Tuning Tips & Techniques* Richard Niemiec, 2012-03-19 Best practices for optimizing database performance Cover **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 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 guide Properly index and partition Oracle Database 12c Release 2 Work effectively with Oracle Cloud Oracle Exadata and Oracle Enterprise Manager Efficiently manage disk drives ASM RAID arrays and memory Tune queries with Oracle SQL hints and the Trace utility Troubleshoot databases using V views and X tables Create your first cloud database service and prepare for hybrid cloud Generate reports using Oracle's Statspack and Automatic Workload Repository tools Use sar vmstat and iostat to monitor operating system statistics

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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 11g Performance Tuning** Austin Vern Songer,2017-03-03 This book only contains Practice Questions and Answers for the Oracle Database 11G Performance Tuning exam      **Oracle Database Upgrade, Migration & Transformation Tips & Techniques** Edward Whalen,Jim Czuprynski,2015-06-12 A practical roadmap for database upgrade migration and transformation This Oracle Press guide provides best practices for migrating between different operating systems and platforms transforming existing databases to use different storage or enterprise systems and upgrading databases from one release to the next Based on the expert authors real world experience Oracle Database Upgrade Migration Transformation Tips Techniques will help you choose the best migration path for your project and develop an effective methodology Code examples and detailed checklists are included in this comprehensive resource Leverage the features of Oracle Data Guard to migrate an Oracle Database Use Oracle Recovery Manager transportable tablespace sets and transportable database toolsets to migrate between platforms Migrate databases with export import Use Oracle GoldenGate for zero or near zero downtime migrations Take advantage of the Cross Platform Transportable Tablespace Set utility Migrate to new storage platforms using the features of Oracle Automatic Storage Management Upgrade to Oracle Database 12c with the Database Upgrade Assistant tool Move seamlessly to Oracle s engineered systems Migrate to the cloud      **Oracle RDBMS Performance Tuning Guide** Oracle Corporation,1989      **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 RDBMS Performance Tuning Guide** ,1989      **Oracle Database 12c Release 2 Testing**

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Andrew Mendelsohn Senior Vice President Oracle Database Server Technologies      *Oracle SQL High-performance Tuning*  
Guy Harrison, 1997 This is a comprehensive guide to writing SQL code that s optimized for performance It includes a unique set of software tools on CD ROM for benchmarking SQL performance      ORACLE RDBMS Performance Tuning Guide  
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