

ORACLE 9i-10g PERFORMANCE TUNING

(rev2.1) - June, 2007 - by Ergem PEKER

Version: Oracle Database 9.2.0.4

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(rev1.1) - January, 2009 - by Ergem PEKER
10g enhancements and some more functionalities.

Foreword

You will find:

- Short explanations about system views and files to examine for performance tuning.
- Lists of views and parameters.
- Lots of statements for obtaining system information and statistics.

You will not find:

- Performance tuning road maps. (I assume you have informed)
- Subject explanations. (There are lots of whitepapers in google)
- Detailed information about views, parameters. (You can be informed any of the views by selecting any of it)

Which files should be examined

- Alert log file

Server log file for instance level alerts.

```
--  
-- finding the location of the alert_<SID>.log file  
--  
select * from v$parameter where name = 'background_dump_dest';  
-- sample output: /data1/oracle1/orahome1/admin/oradbi/bdump
```

Search for	ORA 600	internal errors
	ORA 7445	
	ORA 1578	block corruption errors

Alert log file contains;
Checkpoint start & end times
Incomplete checkpoint
Time and performing archiving
Instance recovery and end time
Deadlock and timeout errors

- Trace files

Session log files for session(user) level alerts.

Server tracing can be enabled or disabled at the session or instance level.
Contains statistics for traced SQL statements.

Instance level tracing

```
-- how to examine and change the sql_trace parameter  
--  
select value from v$parameter where name='sql_trace';
```

Oracle 10g Sql Tuning Student Guide

American Council on Education

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the American Council on Education text.

Oracle 10g Sql Tuning Student Guide:

The National Guide to Educational Credit for Training Programs American Council on Education, 2005 Highlights over 6 000 educational programs offered by business labor unions schools training suppliers professional and voluntary associations and government agencies The Publishers Weekly ,2004 **Oracle Database 11g DBA Handbook** Bob Bryla, Kevin Loney, 2007-12-27 The Essential Resource for Oracle DBAs Fully Updated and Expanded Manage a flexible highly available Oracle database with help from the expert information contained in this exclusive Oracle Press guide Fully revised to cover every new feature and utility Oracle Database 11g DBA Handbook shows how to perform a new installation upgrade from previous versions configure hardware and software for maximum efficiency and employ bulletproof security You will learn to automate the backup and recovery process provide transparent failover capability audit and tune performance and distribute your enterprise databases with Oracle Net Plan and deploy permanent temporary and bigfile tablespaces Optimize disk allocation CPU usage I O throughput and SQL queries Develop powerful database management applications Guard against human errors using Oracle Flashback and Oracle Automatic Undo Management Diagnose and tune system performance using Oracle Automatic Workload Repository and SQL Tuning Sets Implement robust security using authentication authorization fine grained auditing and fine grained access control Maintain high availability using Oracle Real Application Clusters and Oracle Active Data Guard Respond more efficiently to failure scenarios by leveraging the Oracle Automatic Diagnostic Repository and the Oracle Repair Advisor Back up and restore tables tablespaces and databases with Oracle Recovery Manager and Oracle Data Pump Export and Import Work with networked databases data warehouses and VLDBs Put the latest Oracle Database 11g tools to work Oracle Total Recall Oracle Flashback Data Archive and more Subject Guide to Books in Print ,1991 *Oracle Database 10g* Chaitanya Koratamaddi, The British National Bibliography Arthur James Wells, 2005 *Forthcoming Books* Rose Army, 2001-06 Oracle SQL Tuning & CBO Internals Kimberly Floss, 2004-04-28 As Oracle professionals are challenged to create SQL statements that will support thousands of concurrent executions with sub second response time this book s timing is critical as tuning Oracle SQL has become the single most important skill of the Oracle professional While not appropriate for the beginner this book allows senior Oracle professionals to explore important internal mechanisms within Oracle and the powerful and complex internals of Oracle SQL execution Topics include the internals of Oracle cost based SQL optimizer SQL execution internals within the library cache Oracle SQL coding and optimization techniques and Oracle index internals Also included is a ready to use code depot full of working SQL tuning scripts which allow for quick optimization of the SQL and indexes inside the Oracle database **1Z0-117, Oracle Database 11G Release 2** Matthew Morris, Kevin Meade, Ross Leishman, 2013-03-29 This Study Guide is targeted at IT professionals who are working towards the OCE certification Oracle Certified Expert Oracle Database 11g Release 2 SQL Tuning The book provides information covering all of the exam topics for the Oracle certification exam 1Z0 117 Oracle

Database 11g Release 2 SQL Tuning The books in the Oracle Certification Prep series are built in lockstep with the test topics provided by Oracle Education's certification program Each book is intended to provide the information that will be tested in a clean and concise format The guides introduce the subject you'll be tested on follow that with the information you'll need to know for it and then move on to the next topic They contain no drills or unrealistic self tests to bump the page count without adding value The series is intended to provide a concentrated source of exam information that is compact enough to be read through multiple times This series is ideal for experienced Oracle professionals that are familiar with the topic being tested but want a means to rapidly reinforce their existing skills and bridge any gaps in their knowledge It is also an excellent option as a second source of information for candidates pursuing certification

Oracle Certified Master 11g Exam Guide Kamran Aghayev, 2016-07-29 Congratulations on the successful completion of the Oracle DBA 11g Certified Master practicum You are now a member of an elite group of Oracle professionals Every Oracle DBA dreams to get this message from Oracle and one day become an Oracle Certified Master But when it comes to the preparation it seems to be hard as there's no book available in the market for OCM 11g exam It took me 2 years to prepare this book For every single topic of the exam I made a deep research of Oracle documentation metalink notes blog posts and books and prepared practical guidance that will help you to be prepared for the OCM tasks This Study Guide contains the following information In the beginning of each topic a reference from Oracle documentation and metalink notes is provided to get more information on a specific subject Each topic is explained in a practical examples using both graphic user and command line interfaces At the end of each topic a reader is assigned to solve different pre-created tasks in a specified time limit The book consists of 9 chapters and more than 200 practical OCM scenarios Server Configuration chapter provides a detailed step by step guide on Oracle 11g Database Software setup and new database creation through GUI and silent mode likewise Enterprise Manager Grid Control chapter starts by illustrating a detailed step by step installation of OEM Grid Control starting from the download methods of all OEM components till successful installation In this chapter you will also see how to create Programs automate Jobs create Schedulers Alerts and Notifications Managing Database Availability chapter provides steps to create and manage the recovery catalog A number of ways also introduced to create a backup of a database and detailed step by step explanation of database recovery from different failure cases through RMAN is provided Data Management chapter provides detailed information about types of materialized view and materialized view log and how Oracle uses precomputed materialized view instead of querying a table with different aggregate functions and provides a quick result Data Warehouse Management chapter provides information about main data warehouse topics such as partitioning and managing large objects Next we talk about large objects and show how to use various SecureFile LOB features such as compression deduplication encryption caching and logging Performance Tuning chapter provides a detailed information on SQL Tuning tools such as SQL Tuning Advisor SQL Access Advisor and SQL Performance Advisor Beside the tuning tools it provides

information about resource manager result cache multi column statistics and implementing instance caging Grid Infrastructure and ASM chapter covers more than enough material to get you started with step by step installation of Oracle Grid Infrastructure This chapter also sheds light on general Oracle ASM technology and provides information on how to create ASM diskgroups how to configure failure groups and how to practice disk crashes in ASM environment Next we introduce ACFS file system and provide steps to create and manage it Real Application Clusters chapter explores steps to successfully create a RAC database on two nodes With only few additional steps you will successfully create a RAC database Then you see the way how to create and configure ASM with command line interface Once ASM is configured silent RAC database creation steps are provided Data Guard chapter starts by creating a data guard using command line interface OEM and data guard broker It also provides steps on performing switchover and failover using all mentioned tools American Book Publishing Record R.R. Bowker Company,1978 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 Computerworld ,1990-06-18 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network **Oracle Database 10g** Sideris Courseware Corporation,2007 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 **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 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 Database 11g R2* Sideris

Courseware Corp,2011 This Oracle 11g learning guide will equip database administrators and application developers to build efficient SQL statements and to tune database applications When this effort is complemented by database server and PL SQL application tuning then a highly efficient application execution environment is created One will learn about the internals of SQL statement execution how to monitor the performance of such execution and how one can influence the behavior of the database to achieve performance gains This textbook is a mandatory reference for any database administrator or SQL database application developer The following specific topics are among those considered Consider the unique and differing tuning issues found in online database applications enterprise resource and data warehouse environments and the important metrics of SQL statement performance Learn about the internal mechanisms use for SQL statement execution within a database instance and how these can affect performance for good or bad including the Optimizer facilities known as the Transformation Engine Estimator and Plan Generator Use a variety of techniques to examine the details of SQL statement execution spotting trouble areas and bottlenecks which require tuning Learn about the Auto Task framework and how to manage the automatic collection of Optimizer statistics and automatic SQL tuning using both the programmatic and Enterprise Manager interfaces Learn how statistic deficiencies can dramatically degrade performance and how these problems are resolved through customized Optimizer statistics collection procedures using the DBMS_STATS package system statistics histograms expression statistics and MultiColumn statistics Influence the behavior of the Optimizer by setting database parameters and other SQL tuning techniques Utilize the database advisory framework and the SQL Tuning and SQL Access advisors Use plan management to achieve plan stability which is adaptive and even dynamic Understand the self tuning infrastructure and the automatic SQL tuning capabilities found within the database Employ SQL hints embedded into the statement text to resolve unique tuning challenges Learn to identify poorly performing SQL statements using real time SQL monitoring and application tracing techniques such as DBMS_MONITOR trcsess and tkprof

Oracle Database 11g New Features Robert G. Freeman,2007-11-26 FOREWORD by Tom Kyte Your Must Have Guide to Everything New in Oracle Database 11g Realize the full potential of Oracle Database 11g with help from the experts Written by Robert G Freeman and with insightful commentary throughout from Arup Nanda this Oracle Press guide offers full details on the architectural changes database administration upgrades availability and recovery revisions security enhancements and programming innovations Every new and updated feature is covered and presented with screenshots code samples tables and charts Find out how to take full advantage of all the new and improved capabilities of Oracle Database 11g including New Oracle Automatic Storage Management features such as Fast Disk Resync Compatibility Attributes Preferred Mirror Read and Rolling Upgrade components Improved Automated Memory Management capabilities New database design features such as virtual columns tablespace encryption and true table level data compression New Database Advisors for data recovery and repair partitioning and streams performance New tuning features such as Automatic SQL Tuning and SQL

Performance Analyzer Enhancements to Oracle RMAN including active database duplication and UNDO backup optimization
Improved auditing and security capabilities Advanced BI data warehousing and partitioning features New SQL and PL SQL
enhancements Whitaker's Books in Print ,1998

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