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Oracle Database 12c Performance Tuning Recipes

A Problem-Soluton Approach

TESTED SOLUTIONS TO COMMON ORACLE
DATABASE PERFORMANCE PROBLEMS

Sam R. Alapati, Darl Kuhn, and Bill Padfield

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  Oracle Database 12c Performance Tuning Recipes Sam Alapati,Darl Kuhn,Bill Padfield,2013-12-03 Performance problems are rarely problems per se They are more often crises during which you re pressured for results by a manager standing outside your cubicle while your phone rings with queries from the help desk You won t have the time for a leisurely perusal of the manuals nor to lean back and read a book on theory What you need in that situation is a book of solutions and solutions are precisely what Oracle Database 12c Performance Tuning Recipes delivers Oracle Database 12c Performance Tuning Recipes is a ready reference for database administrators in need of immediate help with performance issues relating to Oracle Database The book takes an example based approach wherein each chapter covers a specific problem domain Within each chapter are recipes showing by example how to perform common tasks in that chapter s domain Solutions in the recipes are backed by clear explanations of background and theory from the author team Whatever the task if it s performance related you ll probably find a recipe and a solution in this book Provides proven solutions to real life Oracle performance problems Offers relevant background and theory to support each solution Gets straight to the point for when you re under pressure for results What you ll learn Optimize the use of memory and storage Monitor performance and troubleshoot problems Identify and improve poorly performing SQL statements Adjust the most important optimizer parameters to your advantage Create indexes that get used and make a positive impact upon performance Automate and stabilize using key features such as SQL Tuning Advisor and SQL Plan Baselines Who this book is for Oracle Database 12c Performance Tuning Recipes is aimed squarely at Oracle Database administrators The book especially appeals to those administrators desiring to have at their side a ready to go set of solutions to common database performance problems Table of Contents Optimizing Table Performance Choosing and Optimizing Indexes Optimizing Instance Memory Monitoring System Performance Minimizing System Contention Analyzing Operating System Performance Troubleshooting the Database Creating Efficient SQL Manually Tuning SQL Tracing SQL Execution Automated SQL Tuning Execution Plan Optimization and Consistency Configuring the Optimizer Implementing Query Hints Executing SQL in Parallel   **Oracle Database 11g Performance Tuning Recipes** Sam Alapati,Darl Kuhn,Bill Padfield,2011-08-23 Performance problems are rarely problems per se They are more often crises during which you re pressured for results by a manager standing outside your cubicle while your phone rings with queries from the help desk You won t have the time for a leisurely perusal of the manuals nor to lean back and read a book on theory What you need in that situation is a book of solutions and solutions are precisely what Oracle Database 11g Performance Tuning Recipes delivers Oracle Database 11g Performance Tuning Recipes is a ready reference for database administrators in need of immediate help with performance issues relating to Oracle Database The book takes an example based approach wherein each chapter covers a specific problem domain Within each chapter are

recipes showing by example how to perform common tasks in that chapter s domain Solutions in the recipes are backed by clear explanations of background and theory from the author team Whatever the task if it s performance related you ll probably find a recipe and a solution in this book Provides proven solutions to real life Oracle performance problems Offers relevant background and theory to support each solution Written by a team of experienced database administrators successful in their careers **RMAN Recipes for Oracle Database 12c** Darl Kuhn,Sam Alapati,Arup Nanda,2013-08-24 RMAN Recipes for Oracle Database 12c is an example driven approach to the Oracle database administrator s 1 job responsibility Be able to recover the database Of all the things you are responsible for as database administrator nothing is more important than the data itself Like it or not the fearsome responsibility of protecting your organization s most critical data falls squarely upon your shoulders Lose that data and your company could fail Lose that data and you could be out of a job Oracle s flagship database product fortunately implements a wide ranging feature set to aid you in the all important task of safeguarding against data loss Recovery Manager or RMAN is at the heart of that feature set and is the tool most often used to initiate database backup and recovery operations In this book well known authors and database experts Darl Kuhn Sam Alapati and Arup Nanda have created a set of examples encompassing the gamut of backup and recovery tasks that you might need to perform Sometimes especially when the heat is on a good example is what you need to get started towards a solution RMAN Recipes for Oracle Database 12c delivers It ll be the book you reach for when that dreaded call comes in at 3 00am some dreary morning It ll be the book that lets you sleep at night knowing that no matter what transpires that you ve done your job well and can recover from any outage RMAN Recipes for Oracle Database 12c gets right to the point with quick and easy to read step by step solutions that can help you backup and recover your data with confidence *RMAN Recipes for Oracle Database 11g* Darl Kuhn,2007 Oracle Database 12c xing neng you hua gong lue ,2015

Troubleshooting Oracle Performance Christian Antognini,2014-06-14 Troubleshooting Oracle Performance 2nd Edition is your systematic guide to diagnosing and resolving performance problems in database backed applications involving Oracle s database engine Christian Antognini brings a decade and a half experience to his topic His first edition is one of the most well respected books in its field This second edition has been rigorously updated to cover the latest developments in Oracle Database 11g Release 2 through Oracle Database 12c What do you do when your database application isn t running fast enough You troubleshoot of course Finding the slow part of an application is often the easy part of the battle It s finding a solution that s difficult Troubleshooting Oracle Performance 2nd Edition helps by providing a systematic approach to addressing the underlying causes of poor database application performance The author freely shares his experience while explaining the underlying foundations of how SQL statements are executed by the Oracle database engine You ll be able to draw a solid foundation of theory and shared experience as you face head on the performance challenges in your daily work Written for developers by an application developer who has learned by doing Gives a systematic approach to solving

database application performance problems Helps you plan for performance as you would for any other application requirement **Rman Receipes For Oracle Databases 11g: A Problem Solution Approach** Darl Kuhn. Sam Alapati,Arup Nanda,2007-12-17 Pro Oracle Spatial for Oracle Database 11g shows how to take advantage of Oracle Databases built in feature set for working with location based data This is book aimed at software developers who wish to develop applications using Oracles extensive and strong support for working with spatial or geocoded data Backup And Recovery Jump Starting RMAN Using The Flash Recovery Area Using RMAN Configuring The RMAN Environment Using The Recovery Catalog Making Backups With RMAN Maintaining RMAN Backups And The Repository Scripting RMAN Restoring The Control File Performing Complete Recovery Performing Incomplete Recovery Performing Flashback Recovery Handling Online Redo Log Failures Duplicating Databases And Transporting Data Tuning RMAN Troubleshooting RMAN Using A Media Management Layer Performing Backup And Recovery With Enterprise Manager Using The Data Recovery Advisor Using RMAN On Windows **Oracle Database Problem Solving and Troubleshooting Handbook** Tariq Farooq,Mike Ault,Paulo Portugal,Mohamed Houri,Syed Jaffar Hussain,Jim Czuprynski,Guy Harrison,2016-04-04 An Expert Guide for Solving Complex Oracle Database Problems Oracle Database Problem Solving and Troubleshooting Handbook delivers comprehensive practical and up to date advice for running the Oracle Database reliably and efficiently in complex production environments Seven leading Oracle experts have brought together an unmatched collection of proven solutions hands on examples and step by step tips for Oracle Database 12c 11g and other recent versions of Oracle Database Every solution is crafted to help experienced Oracle DBAs and DMAs understand and fix serious problems as rapidly as possible The authors cover LOB segments UNDO tablespaces high GC buffer wait events poor query response times latch contention indexing XA distributed transactions RMAN backup recovery and much more They also offer in depth coverage of a wide range of topics including DDL optimization VLDB tuning database forensics adaptive cursor sharing data pumps data migration SSDs indexes and how to go about fixing Oracle RAC problems Learn how to Choose the quickest path to solve high impact problems Use modern best practices to make your day more efficient and predictable Construct your Call 9 1 1 plan for future database emergencies Proactively perform maintenance to improve your environment s stability Save time with industry standard tools and scripts Register your product at informit com register for convenient access to downloads updates and corrections as they become available *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 SQL Tuning with Oracle SQLTXPLAIN** Stelios Charalambides,2017-07-23 Learn through this practical guide to SQL tuning how Oracle s own experts do it using a freely downloadable tool called SQLTXPLAIN This new edition has been expanded to include AWR Oracle 12c Statistics interpretation of SQL Monitor reports Parallel execution and Exadata related features Reading this book and using SQL helps you learn to tune even the most complex SQL and you ll learn to do it quickly without the huge learning curve usually associated with tuning as a whole Firmly based in real world problems this book helps you reclaim system resources and avoid the most common bottleneck in overall performance badly tuned SQL You ll learn how the optimizer works how to take advantage of its latest features and when it s better to turn them off Best of all the book is updated to cover the very latest feature set in Oracle Database 12c Covers AWR report integration Helps with SQL Monitor Report Interpretation Provides a reliable method that is repeatable Shows the very latest tuning features in Oracle Database 12c Enables the building of test cases without affecting production What You Will Learn Identify how and why complex SQL has gone wrong Correctly interpret AWR reports generated via SQLTXPLAIN Collect the best statistics for your environment Know when to invoke built in tuning facilities Recognize when tuning is not the solution Spot the steps in a SQL statement s execution plan that are critical to performance of that statement Modify your SQL to solve performance problems and increase the speed and throughput of production database systems Who This Book Is For Oracle SQL Tuning with Oracle SQLTXPLAIN i is ideal for anyone who deals with SQL and SQL tuning Both developers and DBAs will benefit from learning how to use the SQLTXPLAIN tool and from the problem solving methodology in this book **The Art and Science of Oracle Performance Tuning** Christopher Lawson,2003-07 Presents an innovative philosophical approach to Oracle database administration and shows how to think about the whole complex problem of performance tuning how to break it down how to root out the cause of performance bottlenecks Covers all practical aspects of Oracle performance tuning Filled with hands on lessons and accounts Teaches an innovative and effective Physician to Magician approach showing how to understand the problem uncover the root cause and choose and implement the most effective solution Oracle Performance Tuning Expert

Christopher Lawson,2018-04-05 Oracle ACE Alumnus Christopher Lawson has solved over 10 000 Oracle performance problems over the past two decades In this book Chris provides 100 of his all time favorite tips The tips cover the most recent performance techniques available including Oracle 12c Whether you are a beginner at performance tuning or a veteran DBA ORACLE PERFORMANCE TUNING EXPERT is sure to offer you lots of powerful ideas   Oracle and PL/SQL Recipes Josh Juneau,Matt Arena,2012-02-02 Oracle PL SQL Recipes is your go to book for PL SQL programming solutions It takes a task oriented approach to PL SQL programming that lets you quickly look up a specific task and see the pattern for a solution Then it s as simple as modifying the pattern for your specific application and implementing it And you re done and home for dinner Oracle PL SQL Recipes is another in Apress ongoing series of recipe books aimed at Oracle practitioners The recipe format is ideal for the busy professional who just needs to get the job done Covers the most common PL SQL programming problems Presents solutions in ready to use format Stays short and to the point   **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 Performance Tuning 101 Vaidyanatha,   **Oracle Database 11gR2 Performance Tuning Cookbook** Ciro Fiorillo,2012-01-01 In this book you will find both examples and theoretical concepts covered Every recipe is based on a script procedure explained step by step with screenshots while theoretical concepts are explained in the context of the recipe to explain why a solution performs better than another This book is aimed at software developers software and data architects and DBAs who are using or are planning to use the Oracle Database who have some experience and want to solve performance problems faster and in a rigorous way If you are an architect who wants to design better applications a DBA who is keen to dig into the causes of performance issues or a developer who wants to learn why and where the application is running slow this is the book for you Basic knowledge of SQL language is required and general knowledge of the Oracle Database architecture is preferable   **Oracle Database 11 G Release 2 Performance Tuning Tips & Techniques** Richard J. Niemiec,2012   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

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