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Oracle Exadata Recipes

A Problem-Solution Approach

AN EXAMPLE-BASED APPROACH
TO SUCCESS WITH ORACLE'S
EXTREME PERFORMANCE
DATABASE PLATFORM

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Oracle Exadata Recipes John Clarke, 2013-01-28 Oracle Exadata Recipes takes an example based problem solution approach in showing how to size install configure manage monitor optimize and migrate Oracle database workloads on and to the Oracle Exadata Database Machine Whether you re an Oracle Database administrator Unix Linux administrator storage administrator network administrator or Oracle developer Oracle Exadata Recipes provides effective and proven solutions to accomplish a wide variety of tasks on the Exadata Database Machine You can feel confident using the reliable solutions that are demonstrated in this book in your enterprise Exadata environment Managing Oracle Exadata is unlike managing a traditional Oracle database Oracle s Exadata Database Machine is a pre configured engineered system comprised of hardware and software built to deliver extreme performance for Oracle Database workloads Exadata delivers extreme performance by offering an optimally balanced hardware infrastructure with fast components at each layer of the engineered technology stack as well as a unique set of Oracle software features designed to leverage the high performing hardware infrastructure by reducing I O demands Let Oracle Exadata Recipes help you translate your existing Oracle Database knowledge into the exciting new growth area that is Oracle Exadata Helps extend your Oracle Database skillset to the fast growing Exadata platform Presents information on managing Exadata in a helpful example based format Clearly explains unique Exadata software and hardware features What you ll learn Install and configure Exadata Manage your Exadata hardware infrastructure Monitor and troubleshoot performance issues Manage smart scan and cell offload processing Take advantage of Hybrid Columnar Compression Deploy Smart Flash Cache and Smart Flash Logging Ensure the health of your Exadata environment Who this book is for Oracle Exadata Recipes is for Oracle Database administrators Unix Linux administrators storage administrators backup administrators network administrators and Oracle developers who want to quickly learn to develop effective and proven solutions without reading through a lengthy manual scrubbing for techniques Readers in a hurry will appreciate the recipe format that sets up solutions to common tasks as the centerpiece of the book Table of Contents Exadata Hardware Exadata Software How Oracle Works on Exadata Workload Qualification Sizing Exadata Preparing for Exadata Administration and Diagnostics Utilities Backup and Recovery Storage Administration Network Administration Patching and Upgrades Security Monitoring Exadata Storage Cells Host and Database Performance Monitoring Smart Scan and Cell Offload Hybrid Columnar Compression I O Resource Management and Instance Caging Smart Flash Cache and Smart Flash Logging Storage Indexes Post Installation Monitoring Tasks Post Install Database Tasks

RMAN Recipes for Oracle Database 11g Darl Kuhn, 2007 [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.

Expert Oracle Exadata Martin Bach, Kristofferson Arao, Andy Colvin, Frits Hoogland, Kerry Osborne, Randy Johnson, Tanel Poder, 2015-08-29. Expert Oracle Exadata 2nd Edition opens up the internals of Oracle's Exadata platform so that you can fully benefit from the most performant and scalable database hardware appliance capable of running Oracle Database. This edition is fully updated to cover Exadata 5.2 and Oracle Database 12c. If you're new to Exadata, you'll soon learn that it embodies a change in how you think about and manage relational databases. A key part of that change lies in the concept of offloading SQL processing to the storage layer. In addition, there is Oracle's engineering effort in creating a powerful platform for both consolidation and transaction processing. The resulting value proposition in the form of Exadata has truly been a game-changer. Expert Oracle Exadata 2nd Edition provides a look at the internals and how the combination of hardware and software that comprise Exadata actually work. Authors include Martin Bach, Andy Colvin, and Frits Hoogland, with contributions from Karl Arao and built on the foundation laid by Kerry Osborne, Randy Johnson, and Tanel Poder in the first edition. They share their real-world experience gained through a great many Exadata implementations, possibly more than any other group of experts today. Always, their goal is toward helping you advance your career through success with Exadata in your own environment. This book is intended for readers who want to understand what makes the platform tick and for whom, how it does what it does, is as important as what it does. By being exposed to the features that are unique to Exadata, you will gain an understanding of the mechanics that will allow you to fully benefit from the advantages that the platform provides. This book changes how you think about managing SQL performance and processing. It provides a roadmap to successful Exadata implementation. And it removes the black box mystique. You'll learn how Exadata actually works and be better able to manage your Exadata engineered systems in support of your business. This book changes the way you think about managing SQL performance and processing. Provides a roadmap to successful Exadata implementation. Removes the black box mystique, showing how Exadata actually works.

Oracle Database 11g

Performance Tuning Recipes Sam Alapati,Darl Kuhn,Bill Padfield,2011-10-17 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

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

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 [Linux Recipes for Oracle DBAs](#) Darl Kuhn, Bernard Lopuz, Charles Kim, 2008-11-21 Linux Recipes for Oracle DBAs is an example based book on managing Oracle Database in a Linux environment Covering commonly used distributions such as Red Hat Enterprise Linux and Oracle Enterprise Linux the book is written for database administrators who need to get work done and lack the luxury of curling up fireside with a stack of Linux documentation The book is task oriented Look up the task to perform See the solution Read up on the details Get the job done Takes you directly from problem to solution Covers the right mix of Linux user and administration tasks for database administrators Respects your time by being succinct and to the point What you ll learn Execute Linux commands applicable to Oracle Database administration Write shell scripts to automate critical DBA tasks Monitor tune and optimize a Linux server to run Oracle Database Perform Linux system administration tasks relevant to Oracle Database Implement Oracle real application clusters on Linux Implement Oracle automatic storage management on Linux Remotely and securely manage Oracle on Linux Who this book is for Linux Recipes for Oracle DBAs is a book for Oracle database administrators who want to expertly operate Oracle databases on the Linux operating system If you re new to Linux or are migrating from a Unix platform or just want detailed solutions for tasks that Oracle DBAs perform on Linux servers this book is for you **Expert Oracle Exadata** Kerry Osborne, Randy Johnson, Tanel Poder, 2011-08-09 Throughout history advances in technology have come in spurts A single great idea can often spur rapid change as the idea takes hold and is propagated often in totally unexpected directions Exadata embodies such a change in how we think about and manage relational databases The key change lies in the concept of offloading SQL processing to the storage layer That concept is a huge win and its implementation in the form of Exadata is truly a game changer Expert Oracle Exadata will give you a look under the covers at how the combination of hardware and software that comprise Exadata actually work Authors Kerry Osborne Randy Johnson and Tanel P der share their real world experience gained through multiple Exadata implementations

with the goal of opening up the internals of the Exadata platform This book is intended for readers who want to understand what makes the platform tick and for whom how it does what it is does is as important as what it does By being exposed to the features that are unique to Exadata you will gain an understanding of the mechanics that will allow you to fully benefit from the advantages that the platform provides Changes the way you think about managing SQL performance and processing Provides a roadmap to laying out the Exadata platform to best support your existing systems Dives deeply into the internals removing the black box mystique and showing how Exadata actually works *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 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 de mystifying 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 [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 Application Express 4 Recipes** Edmund Zehoo,2011-06-27 Oracle Application Express 4 Recipes provides an example based approach to learning Application Express the ground breaking rapid application development platform included with every Oracle Database license The recipes format is ideal for the quick study who just wants a good example or two to kick start their thinking and get pointed in the right direction The recipes cover the gamut of Application Express development Author and Application Express expert Edmund Zehoo shows how to create data entry screens visualize data in the form of reports and charts implement validation and back end logic and much more Solutions are presented in an easy problem solution format which you can copy and adapt for your own use Detailed discussion for each solution deepens your understanding and aids in customizing the solutions to fit your particular development challenges Teaches Application Express via an example based format Takes you from beginner to intermediate level Shows how to build a fully functional web store in just one hour **Oracle Database Problem Solving and Troubleshooting Handbook** Tariq Farooq, Mike Ault, Paulo Portugal, Mohamed Hour, 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 Exadata Expert's Handbook Tariq Farooq, 2015

[Oracle SQL Tuning with Oracle SQLTXPLAIN](#) Stelios Charalambides, 2017-04-05 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'll 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 divAnyone 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

[RMAN Recipes for Oracle Database 11g](#) Jose Koontz, 2015-07-02 It's sometimes said that the true job of an Oracle database administrator can be summed up in one essential skill to be able to recover your database There's much wisdom in that statement Of all the things you are responsible for as a 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 Oracle database administrators responsible for database backup and recovery operations

[Achieving Extreme Performance with Oracle Exadata](#) Rick Greenwald, Robert Stackowiak, Maqsood Alam, Mans Bhuller, 2011-03-08 Maximize Oracle Exadata Capabilities Leverage all of the powerful features available in the Oracle Exadata Database Machine using the proven techniques inside this Oracle Press guide Written by Oracle experts Achieving Extreme Performance with Oracle Exadata shows you how to take full advantage of this complete optimized package of software servers and storage Best practices for enterprise deployments high availability administration backup and recovery data warehousing online transaction processing consolidation and migration are included in this authoritative resource Take advantage of the tightly integrated hardware and software in the Oracle Exadata Database Machine Work with Oracle Exadata software features including Smart Scans Oracle Exadata Hybrid Columnar Compression storage indexes Oracle

Exadata Smart Flash Cache and I O Resource Manager Understand Oracle Exadata Database Machine balanced hardware architecture Architect administer and monitor Oracle Exadata Storage Servers Deploy data warehouses on the Oracle Exadata Database Machine Run online transaction processing OLTP workloads on the Oracle Exadata Database Machine Consolidate databases with and migrate databases to the Oracle Exadata Database Machine

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

Oracle Exadata X8M Implementation Specialist Certification Prep Guide : 350 Questions & Answers CloudRoar Consulting Services, 2025-08-15 Prepare for the Oracle Exadata X8M Implementation Specialist exam with 350 questions and answers covering Exadata architecture installation configuration performance tuning security and backup strategies Each question provides practical examples and explanations to ensure exam readiness Ideal for database administrators and Exadata specialists Oracle Exadata X8M Database Administration Performance Tuning Security Backup Strategies Exam Preparation Tech Certifications IT Certifications Career Growth Professional Development Oracle Skills DBA Skills IT Skills CloudDB

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