



Quick answers to common problems

# Oracle Database 11gR2 Performance Tuning Cookbook

Over 80 recipes to help beginners achieve better performance  
from Oracle Database applications

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# Oracle Database 11gr2 Performance Tuning Cookbook

**Sam Alapati, Darl Kuhn, Bill Padfield**

## **Oracle Database 11gr2 Performance Tuning Cookbook:**

**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.

**Advanced Oracle PL/SQL Developer's Guide** Saurabh K. Gupta, 2016-02-15 Master the advanced concepts of PL/SQL for professional level certification and learn the new capabilities of Oracle Database 12c. About This Book Learn advanced application development features of Oracle Database 12c and prepare for the 1Z0 146 examination. Build robust and secure applications in Oracle PL/SQL using the best practices. Packed with feature demonstrations and illustrations that will help you learn and understand the enhanced capabilities of Oracle Database 12c. Who This Book Is For This book is for Oracle developers responsible for database management. Readers are expected to have basic knowledge of Oracle Database and the fundamentals of PL/SQL programming. Certification aspirants can use this book to prepare for 1Z0 146 examination in order to be an Oracle Certified Professional in Advanced PL/SQL. What You Will Learn Learn and understand the key SQL and PL/SQL features of Oracle Database 12c. Understand the new Multitenant architecture and Database In Memory option of Oracle Database 12c. Know more about the advanced concepts of the Oracle PL/SQL language such as external procedures, securing data using Virtual Private Database (VPD), SecureFiles and PL/SQL code tracing and profiling. Implement Virtual Private Databases to prevent unauthorized data access. Trace, analyze, profile and debug PL/SQL code while developing database applications. Integrate the new application development features of Oracle Database 12c with the current concepts. Discover techniques to analyze and maintain PL/SQL code. Get acquainted with the best practices of writing PL/SQL code and develop secure applications. In Detail Oracle Database is one of the most popular databases and allows users to make efficient use of their resources and to enhance service levels while reducing the IT costs incurred. Oracle Database is sometimes compared with Microsoft SQL Server; however, Oracle Database clearly supersedes SQL Server in terms of high availability and addressing planned and unplanned downtime. Oracle PL/SQL provides a rich platform for application developers to code and build scalable database applications and introduces multiple new features and enhancements to improve development experience. Advanced Oracle PL/SQL Developer's Guide, Second Edition is a handy technical reference for seasoned professionals in the database development space. This book starts with a refresher of fundamental concepts of PL/SQL such

as anonymous block subprograms and exceptions and prepares you for the upcoming advanced concepts The next chapter introduces you to the new features of Oracle Database 12c not limited to PL SQL In this chapter you will understand some of the most talked about features such as Multitenant and Database In Memory Moving forward each chapter introduces advanced concepts with the help of demonstrations and provides you with the latest update from Oracle Database 12c context This helps you to visualize the pre and post applications of a feature over the database releases By the end of this book you will have become an expert in PL SQL programming and will be able to implement advanced concepts of PL SQL for efficient management of Oracle Database Style and approach The book follows the structure of the Oracle Certification examination but doesn't restrict itself to the exam objectives Advanced concepts have been explained in an easy to understand style supported with feature demonstrations and case illustrations

### **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 APEX Cookbook** Marcel Van Der Plas,Michel Van Zoest,2013-10-25 As a Cookbook this book enables you to create APEX web applications and to implement features with immediately usable recipes that unleash the powerful functionality of Oracle APEX 4.2 Each recipe is presented as a separate standalone entity and the reading of other prior recipes is not required It can be seen as a reference and a practical guide to APEX development This book is aimed both at developers new to the APEX environment and at intermediate developers More advanced developers will also gain from the information at hand If you are new to APEX you will find recipes to start development and if you are an experienced user you will find ways to improve your productivity and efficiency and make the most of APEX to enhance your applications A little knowledge of PL SQL HTML and JavaScript is assumed

### **Oracle Business Intelligence Enterprise Edition 12c**

Adrian Ward,Christian Screen,Haroun Khan,2017-04-20 A comprehensive guide from Oracle experts that will act as your single point of reference for building an Oracle BI 12c system that turns data in actionable insight About This Book Come start your

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**Oracle GoldenGate 12c Implementer's Guide** John P Jeffries, 2015-07-27 GoldenGate exchanges data among systems in a timely manner and meets the demand for real time access to information regardless of volume The new release 12c includes an optimized database intelligent and integrated delivery capabilities expanded heterogeneity and tighter security Perform zero downtime data migration to on premise or public cloud with GoldenGate's feature rich portfolio Start with the

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### **Oracle 11g Anti-Hacker's**

**Cookbook** Adrian Neagu,2012-10-25 This cookbook has recipes written in simple easy to understand format with lots of screenshots and insightful tips and hints If you are an Oracle Database Administrator Security Manager or Security Auditor looking to secure the Oracle Database or prevent it from being hacked then this book is for you This book assumes you have a basic understanding of security concepts

[Learning Linux Shell Scripting](#) Ganesh Sanjiv Naik,2015-12-31 Unleash the power of shell scripts to solve real world problems by breaking through the practice of writing tedious code About This Book Learn how to efficiently and effectively build shell scripts and develop advanced applications with this handy book Develop high quality and efficient solutions by writing professional and real world scripts and debug scripts by checking and shell tracing A step by step tutorial to automate routine tasks by developing scripts from a basic level to very advanced functionality Who This Book Is For This book is ideal for those who are proficient at working with Linux and who want to learn about shell scripting to improve their efficiency and practical skills By the end of this book you will be able to confidently use your own shell scripts in the real world What You Will Learn Familiarize yourself with the various text filtering tools available in Linux Combine the fundamental text and file processing commands to process data and automate repetitive tasks Understand expressions and variables and how to use them practically Automate decision making and save a lot of time and effort of revisiting code Get to grips with advanced functionality such as using traps and signals and using dialogs to develop screens Start up a system and customize a Linux system Take an in depth look at regular expressions and pattern matching to understand the capabilities of scripting In Detail Linux is the one of the most powerful and universally adopted OSes Shell is a program that gives the user direct interaction with the operating system Scripts are collections of commands that are stored in a file The shell can read this file and act on the commands as if they were typed on the keyboard Shell scripting is used to automate day to day administration and for testing or product development tasks This book covers Bash GNU Bourne Again SHell preparing you to work in the exciting world of Linux shell scripting We start with an introduction to the Shell environment and explain basic commands used in Shell Next we move on to check kill and control the execution of processes in Linux OS Further we teach you about the filter tools available in Linux and explain standard output and standard errors devices Then we will ensure you understand Shell's interpretation of commands and get a firmer grasp so you use them in practice Next you'll experience some real world essentials such as debugging and perform Shell arithmetic fluently Then you'll take a step ahead and learn new and advanced topics in Shell scripting such as starting up a system and customizing a Linux system Finally you'll get to understand the capabilities of scripting and learn about Grep

Stream Editor and Awk Style and approach This practical book will go from the very basics of shell scripting to complex customized automation The idea behind this book is to be as practical as possible and give you the look and feel of what real world scripting is like *Datenbanken und SQL* Edwin Schicker,2025-07-29 Dieses Buch vermittelt fundierte

Grundkenntnisse sowohl in Datenbanken als auch in SQL Eine Zusammenfassung und zahlreiche bungsaufgaben in jedem Kapitel dienen der Vertiefung des Stoffes und verbessern den Lernerfolg deutlich Die Schwerpunkte des Buches sind relationale Datenbanken Entwurf von Datenbanken die Programmiersprache SQL und der Zugriff auf Datenbanken mittels der Sprache PHP Aber auch Themen wie Recovery Concurrency Sicherheit und Integrität werden auf hrlich besprochen Ein Kapitel zu verteilten Datenbanken NoSQL und objektrelationalen Datenbanken fürt in die jeweilige Thematik ein Ein eigenes Kapitel über Performance gibt wertvolle Anregungen und Tipps zum Betrieb von leistungsfähigen Datenbanken Der Autor legt sehr viel Wert auf die praktische Anwendung Mit Hilfe einer Beispieldatenbank kann das Gelernte sofort geübt werden Diese Datenbank alle vorgestellten Programme und die Lsungen zu allen bungen werden im Internet zum Download bereitgestellt

**Oracle Soa Suite Performance Tuning Cookbook** Matthew Brasier,2013-01-01 This is a Cookbook with interesting hands on recipes giving detailed descriptions and lots of practical walkthroughs for boosting the performance of your Oracle SOA Suite This book is for Oracle SOA Suite 11g administrators developers and architects who want to understand how they can maximise the performance of their SOA Suite infrastructure The recipes contain easy to follow step by step instructions and include many helpful and practical tips It is suitable for anyone with basic operating system and application server administration experience

**Oracle SOA Suite 11g Performance Tuning Cookbook** Matthew Brasier,Mark Addy,Nicholas Wright,2013 This is a Cookbook with interesting hands on recipes giving detailed descriptions and lots of practical walkthroughs for boosting the performance of your Oracle SOA Suite This book is for Oracle SOA Suite 11g administrators developers and architects who want to understand how they can maximise the performance of their SOA Suite infrastructure The recipes contain easy to follow step by step instructions and include many helpful and practical tips It is suitable for anyone with basic operating system and application server administration experience *Oracle SOA Suite Performance Tuning Cookbook Over 100 Recipes to Get the Best Performance from Your Oracle SOA 11g Infrastructure* Matt Brasier,2013 *Oracle Database 11 G Release 2 Performance Tuning Tips & Techniques* Richard J. Niemiec,2012

**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

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**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 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.

### **The Oracle 11G Performance Tuning**

Rajeev A. Parida, 2015. This book is an aid for people responsible for the operation, maintenance and performance of Oracle databases. It describes detailed ways to enhance Oracle performance by writing and tuning SQL properly using performance tools and optimizing instance performance. It also explains how to create an initial database for good performance and includes performance related reference information.

### **Oracle Performance Tuning**

Mark Gurry, Peter Corrigan, 1996-11. A complete revision of the original title, this second edition adds new material on Oracle 7.3 and many Oracle 8 features. It explores new Oracle capabilities like parallel server, parallel query and distributed database. It contains more detail on constraints and triggers, many more examples and information on new tuning tools like the Oracle Performance Pack, Oracle Trace and Oracle Expert.

### [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.

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