



# Oracle Database 11gR2 Performance Tuning Cookbook

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

Ciro Florillo

**[PACKT]** enterprise<sup>ee</sup>  
PUBLISHING

# Oracle 11gr2 Performance Self Study Guide

**Pasquale De Marco**



## **Oracle 11gr2 Performance Self Study Guide:**

*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

Advanced Tuning for JD Edwards EnterpriseOne Implementations Michael Jacot, Allen Jacot, Gurbinder Bali, Frank Jordan, Patrick Scott, Kyle Kinder, 2013-07-16 Best Practices for JD Edwards Enterprise One Tuning and Optimization Achieve peak performance from your ERP platform while minimizing downtime and lowering TCO Advanced Tuning for JD Edwards Enterprise One Implementations shows how to plan and adopt a structured top to bottom maintenance methodology Uncover

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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 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 Certified Master 11g Exam Guide](#) Kamran Aghayev,2016-07-29

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**Oracle Quick Performance Tuning Study Guide** Dr Jim

Ras,2018-11-23 As an Oracle database administrator DBA you are responsible for the performance of your Oracle database. Tuning a database to reach a desirable performance level may be a daunting task especially for DBAs who are new to Oracle Database. Oracle Database Quick Performance Tuning Study Guide is a quick start guide that teaches you how to perform day to day database performance tuning tasks using features provided by the Oracle Diagnostics Pack, Oracle Tuning Pack and Oracle Enterprise Manager.

**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.

**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 Performance Tuning Study Guide* (Dr Jim Ras,2018-11-26) This book provides an introduction to performance tuning. Tuning is driven by identifying the most significant bottleneck and making the appropriate changes to reduce or eliminate the effect of that bottleneck. Usually tuning is performed reactively either while the system is preproduction or after it is live. The most effective way to tune is to have an established performance baseline that can be used for comparison if a performance issue arises. Most database administrators DBAs know their system well and can easily identify peak usage periods.

*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 Database 11g DBA Handbook* Bob Bryla, Kevin Loney, 2007-12-06 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      **OCP**  
**Oracle Certified Professional Java SE 11 Programmer II Study Guide** Scott Selikoff, Jeanne Boyarsky, 2020-06-23 This

OCP Oracle Certified Professional Java SE 11 Programmer I Study Guide Exam 1Z0 815 and the Programmer II Study Guide Exam 1Z0 816 were published before Oracle announced major changes to its OCP certification program and the release of the new Developer 1Z0 819 exam No matter the changes rest assured both of the Programmer I and II Study Guides cover everything you need to prepare for and take Exam 1Z0 819 If you ve purchased one of the Programmer Study Guides purchase the other one and you ll be all set em style font family Arial font size 13 3333px NOTE The OCP Java SE 11 Programmer I Exam 1Z0 815 and Programmer II Exam 1Z0 816 have been retired as of October 1 2020 and Oracle has released a new Developer Exam 1Z0 819 to replace the previous exams The Upgrade Exam 1Z0 817 remains the same The completely updated preparation guide for the new OCP Oracle Certified Professional Java SE 11 Programmer II exam covers Exam 1Z0 816 Java a platform independent object oriented programming language is used primarily in mobile and desktop application development It is a popular language for client side cloud applications and the principal language used to develop Android applications Oracle has recently updated its Java Programmer certification tracks for Oracle Certified Professional OCP Oracle Certified Professional Java SE 11 Programmer II Study Guide ensures that you are fully prepared for this difficult certification exam Covering 100% of exam objectives this in depth study guide provides comprehensive coverage of the functional programming knowledge necessary to succeed Every exam topic is thoroughly and completely covered including exceptions and assertions class design generics and collections threads concurrency IO and NIO and more Access to Sybex s superior online interactive learning environment and test bank including self assessment tests chapter tests bonus practice exam questions electronic flashcards and a searchable glossary of important terms provides everything you need to be fully prepared on exam day This must have guide Covers all exam objectives such as inheriting abstract classes and interfaces advanced strings and localization JDBC and Object Oriented design principles and patterns Explains complex material and reinforces your comprehension and retention of important topics Helps you master more advanced areas of functional programming Demonstrates practical methods for building Java solutions OCP Oracle Certified Professional Java SE 11 Programmer II Study Guide will prove invaluable for anyone seeking achievement of this challenging exam as well as junior to senior level programmers who uses Java as their primary programming language

**Study Guide for 1Z0-144: Oracle Database 11g: Program with PL/SQL** Matthew Morris, 2012-07-10 This Study Guide is targeted at IT professionals who are working towards becoming an Oracle Certified Associate in the PL SQL developer track The book provides information covering all of the exam topics for the Oracle certification exam 1Z0 144 Oracle Database 11g Program with PL SQL The books in the Oracle Certificaton 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 Database 11g R2 ,2005\* OCP Oracle9i Database: Performance Tuning Exam Guide** Charles Pack,2002-04-17 Prepare to pass the Oracle9i OCP DBA Performance Tuning exam using this focused and complete guide Covering all official exam objectives and containing over 300 practice questions chapter self tests two minute drills a glossary of key Oracle terms plus a CD ROM with a testing engine that simulates the actual exam this is the best study tool available

*Oracle 9i Fundamentals: A Self-Study Guide* Pasquale De Marco,2025-04-12 Embark on a transformative journey into the realm of data management with Oracle 9i Fundamentals A Self Study Guide an indispensable resource tailored to equip you with the knowledge and skills to harness the power of Oracle 9i effectively Master the intricacies of Oracle 9i s architecture delve into the art of data modeling and unlock the potential of SQL programming Discover performance tuning methodologies that optimize your database s efficiency and explore the robust security mechanisms that safeguard your valuable data Navigate the complexities of backup and recovery strategies ensuring the integrity and availability of your critical information Explore the world of replication technologies enabling seamless data synchronization across multiple systems Delve into the realm of data warehousing unlocking the power of business intelligence and transforming raw data into actionable insights With its comprehensive coverage engaging explanations and abundance of real world examples Oracle 9i Fundamentals A Self Study Guide is the ultimate companion for database professionals students and anyone seeking to master Oracle 9i s capabilities Step into the world of Oracle 9i today and unlock the gateway to data driven success

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supplementary materials are not included as part of eBook file      **OCP: Oracle 10g New Features for Administrators Study Guide** Bob Bryla,Biju Thomas,2006-02-20 Here s the book you need to prepare for Oracle s 10g upgrade exam Oracle Database 10g New Features for Administrators 1Z0 040 This Study Guide was developed to meet the exacting requirements of today s Oracle certification candidates In addition to the consistent and accessible instructional approach that has earned Sybex the Best Study Guide selection in CertCities Readers Choice Awards for two consecutive years this book provides Clear and concise information on the enhancements included in Oracle 10g Practical examples and insights drawn from the authors real world experiences Leading edge exam preparation software including a test engine and electronic flashcards You ll also find authoritative coverage of key exam topics including Installing and Configuring the Server Loading and Unloading Data Tuning Applications Supporting Analytical Applications Backing Up and Recovering Data Automating Data Storage Management Applying Security Policies Supporting Upgrade Paths to Oracle 10g Look to Sybex for the knowledge and skills needed to succeed in today s competitive IT marketplace Note CD ROM DVD and other supplementary materials are not included as part of eBook file      **OCA / OCP: Introduction to Oracle9i SQL Study Guide** Chip Dawes,Biju Thomas,2002-03-22 The perfect way to prepare for the Introduction to Oracle9i SQL exam Contains exam essentials real world scenario sidebars scenario based questions and fill in the blank questions The CD includes flashcards chapter by chapter exams random generated question sets a bonus exam and an electronic version of the book      **OCP ORACLE9I PERFORMANCE TUNING STUDY GUIDE(1Z0-033)** □□ C.□□,2003-10-25

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