

# Oracle 11G Tuning Student Guide

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# Oracle 11g Tuning Student Guide

**Shasha Hu**



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*Oracle WebLogic Server 11g Administration Handbook* Sam R. Alapati, 2011-09-22 Master the Configuration and Administration of Oracle WebLogic Server 11g Oversee a robust highly available environment for your mission critical applications using the expert information in this Oracle Press guide Oracle WebLogic Server 11g Administration Handbook explains the latest management techniques for the de facto application server for Oracle Fusion Middleware 11g and provides detailed examples and best practices Find out how to use the Oracle WebLogic Server Administration Console feature employ command line and scripting tools implement failover and migration capabilities and generate reliable backups Troubleshooting tuning and security procedures are also covered in this comprehensive resource Install Oracle WebLogic Server 11g or upgrade from a previous version Configure domains servers clusters custom networks and virtual hosts Work with the Administration Console and Monitoring Dashboard features of Oracle WebLogic Server Use the WebLogic Scripting Tool WLST feature of Oracle WebLogic Server to manage and monitor domains Use the Oracle WebLogic Server Work Managers feature to optimize scheduled work Deploy Web applications Enterprise JavaBeans and Java EE modules Improve scalability and reliability using Oracle WebLogic Server clusters Monitor servers tune the Java Virtual Machine maximize throughput and optimize performance Authenticate authorize and map users within defined security realms

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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

**Oracle Database 12c The Complete Reference** Bob Bryla, Kevin Loney, 2013-08-05 Master the Cutting Edge Features of Oracle Database 12c Maintain a scalable highly available enterprise platform and reduce

complexity by leveraging the powerful new tools and cloud enhancements of Oracle Database 12c This authoritative Oracle Press guide offers complete coverage of installation configuration tuning and administration Find out how to build and populate Oracle databases perform effective queries design applications and secure your enterprise data Oracle Database 12c The Complete Reference also contains a comprehensive appendix covering commands keywords features and functions Set up Oracle Database 12c or upgrade from an earlier version Design Oracle databases and plan for application implementation Construct SQL and SQL Plus statements and execute powerful queries Secure data with roles privileges virtualization and encryption Move data with SQL Loader and Oracle Data Pump Restore databases using flashback and the Oracle Database Automatic Undo Management feature Build and deploy PL SQL triggers procedures and packages Work with Oracle pluggable and container databases Develop database applications using Java JDBC and XML Optimize performance with Oracle Real Application Clusters

Oracle Database 12c DBA Handbook Bob Bryla, 2015-07-03 The definitive reference for every Oracle DBA completely updated for Oracle Database 12c Oracle Database 12c DBA Handbook is the quintessential tool for the DBA with an emphasis on the big picture enabling administrators to achieve effective and efficient database management Fully revised to cover every new feature and utility this Oracle Press guide shows how to harness cloud capability perform a new installation upgrade from previous versions configure hardware and software handle backup and recovery and provide failover capability The newly revised material features high level and practical content on cloud integration storage management performance tuning information management and the latest on a completely revised security program Shows how to administer a scalable flexible Oracle enterprise database Includes new chapters on cloud integration new security capabilities and other cutting edge features All code and examples available online

**MCDBA Administering SQL Server 2000 Study Guide (Exam 70-228)** Joyit Mukherjee, Joyjit Mukherjee, 2001-07 CD ROM contains CertTrainer CBT software ExamSim text engine Electronic searchable version of text

*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

**Sco Performance Tuning** Gina Miscovich,David Simons,1994 A tutorial reference for both novice and experienced system administrators alike this volume explains how to configure software and hardware resources to obtain optimal performance on a SCO system Uses diagrams tables and charts to amplify text descriptions Includes 3 5 diskette

SCEA Sun Certified Enterprise Architect for Java EE Study Guide (Exam 310-051) Paul Allen,Joseph Bambara,2007-07-12 The Best Fully Integrated Study System Available for Exam 310 051 With hundreds of practice questions and hands on exercises Sun Certified Enterprise Architect for Java EE Study Guide covers what you need to know and shows you how to prepare for this challenging exam 100% complete coverage of all official objectives for exam 310 051 Inside the Exam sections in every chapter highlight key exam topics covered Simulated exam questions match the format tone topics and difficulty of the real exam Covers all the exam topics including Basic Principles of Enterprise Architectures Object Oriented Design Using UML Applicability of JEE Technology Design Patterns Legacy Connectivity EJB and Container Models Messaging Internationalization and Localization Security Electronic content includes Complete MasterExam practice testing engine featuring One full practice exam Detailed answers with explanations Score Report performance assessment tool Electronic book for studying on the go With free online registration Bonus downloadable MasterExam practice test

*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 *Replies [afterw.] The Oracle ,* 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

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