

# Oracle Database 12c New Features Oracle Press

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*Oracle Database 12c Security* David Knox 2015-01-05 Best Practices for Comprehensive Oracle Database Security Written by renowned experts from Oracle's National Security Group, Oracle Database 12c Security provides proven techniques for designing, implementing, and certifying secure Oracle Database systems in a multitenant architecture. The strategies are also applicable to standalone databases. This Oracle Press guide addresses everything from infrastructure to audit lifecycle and describes how to apply security measures in a holistic manner. The latest security features of Oracle Database 12c are explored in detail with practical and easy-to-understand examples. Connect users to databases in a secure manner Manage identity, authentication, and access control Implement database application security Provide security policies across enterprise applications using Real Application Security Control data access with Oracle Virtual Private Database Control sensitive data using data redaction and transparent sensitive data protection Control data access with Oracle Label Security Use Oracle Database Vault and Transparent Data Encryption for compliance, cybersecurity, and insider threats Implement auditing technologies, including Unified Audit Trail Manage security policies and monitor a secure database environment with Oracle Enterprise Manager Cloud Control

*Oracle Database 11g SQL* Jason Price 2007-11-26 Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. Write powerful SQL statements and PL/SQL programs Learn to access Oracle databases through SQL statements and construct PL/SQL programs with guidance from Oracle expert, Jason Price. Published by Oracle Press, Oracle Database 11g SQL explains how to retrieve and modify database information, use SQL Plus and SQL Developer, work with database objects, write PL/SQL programs, and much more. Inside, you'll find in-depth coverage of the very latest SQL features and tools, performance optimization techniques, advanced queries, Java support, and XML. This book contains everything you need to master SQL. Explore SQL Plus and SQL Developer Use SQL SELECT, INSERT, UPDATE, and DELETE statements Write PL/SQL programs Create tables, sequences, indexes, views, and triggers Write advanced queries containing complex analytical functions Create database objects and collections to handle abstract data Use large objects to handle multimedia files containing music and movies Write Java programs to access an Oracle Database using JDBC Tune your SQL statements to make them execute faster Explore the XML capabilities of the Oracle Database Master the very latest Oracle Database 11g features, such as PIVOT and UNPIVOT, flashback archives, and much more

Oracle Database 12c Oracle RMAN Backup and Recovery Robert G. Freeman 2016-04-19 This authoritative Oracle Press resource on RMAN has been thoroughly revised to cover every new feature, offering the most up-to-date information This fully updated volume lays out the easiest, fastest, and most effective methods of deploying RMAN in Oracle Database environments of any size. Keeping with previous editions, this book teaches computing professionals at all skill levels how to fully leverage every powerful RMAN tool and protect mission-critical data. Oracle Database 12c RMAN Backup and Recovery explains how to generate reliable archives and carry out successful system restores. You will learn to work from the command line or GUI, automate the database backup process, perform Oracle Flashback recoveries, and deploy third-party administration utilities. The book features full details on cloud computing, report generation, performance tuning, and security. Offers up-to-date coverage of Oracle Database 12c new features Examples and workshops throughout walk you through important RMAN operations

Oracle Database 12c Release 2 New Features Bob Bryla 2017-04-24 Leverage the New and Improved Features of Oracle Database 12c Written by Oracle experts Bob Bryla and Robert G. Freeman, this Oracle Press guide describes the myriad new and enhanced capabilities available in the latest Oracle Database release. Inside, you'll find everything you need to know to get up and running quickly on Oracle Database 12c Release 2. Supported by contributions from Oracle expert Eric Yen, Oracle Database 12c Release 2 New Features offers detailed coverage of:

- Installing Oracle Database 12c and Grid Infrastructure
- Architectural changes, such as Oracle Multitenant
- The most current information on upgrading and migrating to Oracle Database 12c
- The pre-upgrade information tool and parallel processing for database upgrades
- Oracle Real Application Clusters new features, such as Oracle Flex Cluster, Oracle Flex Automatic Storage Management, and Oracle Automatic Storage Management Cluster File System
- Enhanced and new online operations: tables, indexes, and PDBs
- Oracle RMAN enhancements, including cross-platform backup and recovery
- Oracle Data Guard improvements, such as Fast Sync, and Oracle Active Data Guard new features, such as Far Sync
- SQL, PL/SQL, DML, and DDL new features
- Improvements to partitioning manageability, performance, and availability
- Advanced business intelligence and data warehousing capabilities
- Security enhancements, including privileges analysis, data redaction, and new administrative-level privileges
- Manageability, performance, and optimization improvements

### **Oracle Database 12c Release 2 Testing Tools and Techniques for Performance and Scalability**

Jim Czuprynski 2017-10-05 Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. Master Oracle Database 12c Release 2 testing and tuning Seamlessly transition to Oracle Database 12c Release 2 and achieve peak performance using the step-by-step instruction and best practices contained in this Oracle Press guide. Written by a team of Oracle ACEs, Oracle Database 12c Release 2 Testing Tools and Techniques for Performance and Scalability clearly explains how to identify, investigate, and resolve performance issues. You will discover how to use troubleshooting tools and test rigs, optimize code and queries, evaluate database performance, perform realistic application testing, capture and replay actual production workloads, and employ Oracle Database In-Memory.

- Establish benchmarks and evaluate application workload performance
- Configure and deploy SQL Tuning Advisor and SQL Access Advisor
- Maximize efficiency using Oracle Database In-Memory and In-Memory Advisor
- Identify and repair poorly running code with SQL Monitor
- Uncover database problems using Real-Time ADDM and Emergency Monitoring
- Work with database workload capture and replay
- Analyze third-party code with Workload Intelligence
- Identify database objects that will benefit most from In-Memory Column Store (IMCS)
- Monitor and manage IMCS objects with In-Memory Central

*Oracle Database 12c DBA Handbook* Bob Bryla 2015-06-24 Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. The Most Complete, Current Oracle DBA Resource Maintain a high-performance Oracle Database using the best practices and expert techniques in this Oracle Press guide. Oracle Database 12c DBA Handbook is thoroughly updated to cover the new features and utilities, including the multitenant architecture, Oracle Database In-Memory option, and cloud enhancements. Real-world examples for every major configuration are included. You'll learn how to successfully manage a highly available, robust, secure, and extensible Oracle enterprise database environment. Upgrade to Oracle Database 12c Plan and manage tablespaces Maximize database performance using effective physical database layouts and storage management methods Monitor disk space used by database objects Manage transactions with undo tablespaces Implement expert performance-tuning techniques Increase query speed using the new Oracle Database In-Memory option Manage database security through authentication, authorization, and auditing Take full advantage of the multitenant database architecture Enable high availability and scalability with Oracle Real Application Clusters and Oracle Active Data Guard Perform backup and recovery with Oracle Recovery Manager Manage distributed databases and VLDBs

**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 hints and the Trace utility • Troubleshoot databases using V\$ views and X\$ tables • Create your first cloud database service and prepare for hybrid cloud • Generate reports using Oracle's Statspack and Automatic Workload Repository tools • Use sar, vmstat, and iostat to monitor operating system statistics

*Oracle Database 12c Release 2 Real Application Clusters Handbook: Concepts, Administration, Tuning & Troubleshooting* K. Gopalakrishnan 2018-02-22 This comprehensive guide has been fully updated to cover the latest features and tools of Oracle Real Application Clusters 12c Through clear instruction and detailed examples, Oracle Database 12c Real Application Clusters Handbook: Concepts, Administration, Tuning & Troubleshooting teaches how to build, configure, and maintain a dynamic enterprise computing infrastructure. This thoroughly revised edition covers best uses for the latest tools and features—all from the practical standpoint of a working DBA. You will discover how to prepare hardware, configure the software, optimize data integrity, and integrate seamless failover protection. Brand-new flex and large cluster technologies are explained in full detail, and readers will get complete solutions for securing data and continuing business operations in the event of hardware failure. Presents all the new information needed to effectively use Oracle Real Application Clusters 12c -considered the most radical overhaul ever Offers detailed coverage of troubleshooting, performance tuning, and application development

**Practical Oracle SQL** Kim Berg Hansen 2020-02-19 Write powerful queries using as much of the feature-rich Oracle SQL language as possible, progressing beyond the simple queries of basic SQL as standardized in SQL-92. Both standard SQL and Oracle's own extensions to the language have

progressed far over the decades in terms of how much you can work with your data in a single, albeit sometimes complex, SQL statement. If you already know the basics of SQL, this book provides many examples of how to write even more advanced SQL to huge benefit in your applications, such as: Pivoting rows to columns and columns to rows Recursion in SQL with MODEL and WITH clauses Answering Top-N questions Forecasting with linear regressions Row pattern matching to group or distribute rows Using MATCH\_RECOGNIZE as a row processing engine The process of starting from simpler statements in SQL, and gradually working those statements stepwise into more complex statements that deliver powerful results, is covered in each example. By trying out the recipes and examples for yourself, you will put together the building blocks into powerful SQL statements that will make your application run circles around your competitors. What You Will Learn Take full advantage of advanced and modern features in Oracle SQL Recognize when modern SQL constructs can help create better applications Improve SQL query building skills through stepwise refinement Apply set-based thinking to process more data in fewer queries Make cross-row calculations with analytic functions Search for patterns across multiple rows using row pattern matching Break complex calculations into smaller steps with subquery factoring Who This Book Is For Oracle Database developers who already know some SQL, but rarely use features of the language beyond the SQL-92 standard. And it is for developers who would like to apply the more modern features of Oracle SQL, but don't know where to start. The book also is for those who want to write increasingly complex queries in a stepwise and understandable manner. Experienced developers will use the book to develop more efficient queries using the advanced features of the Oracle SQL language.

*Oracle Database 11g A Beginner's Guide* Ian Abramson 2008-10-01 Get a Solid Foundation in Oracle Database Technology Master Oracle Database 11g fundamentals quickly and easily. Using self-paced tutorials, this book covers core database essentials, the role of the administrator, high availability, and large database features. Oracle Database 11g: A Beginner's Guide walks you, step by step, through database setup, administration, programming, backup, and recovery. In-depth introductions to SQL and PL/SQL are included. Designed for easy learning, this exclusive Oracle Press guide offers: Core Concepts--Oracle Database 11g topics presented in logically organized chapters Critical Skills--Lists of specific skills covered in each chapter Projects--Practical exercises that show how to apply the critical skills learned in each chapter Progress Checks--Quick self-assessment sections to check your progress Notes--Extra information related to the topic being covered Mastery Checks--Chapter-ending quizzes to test your knowledge

**OCA Oracle Database 12c SQL Fundamentals I Exam Guide (Exam 1Z0-061)** Roopesh Ramklass 2014-04-25 A Complete Study System for OCA Exam 1Z0-061 Prepare for the Oracle Certified Associate Oracle Database 12c SQL Fundamentals I exam with this Oracle Press guide. Each chapter features challenging exercises, a certification summary, a two-minute drill, and a self-test to reinforce the topics presented. This authoritative resource helps you pass the exam and also serves as an essential, on-the-job reference. Get complete coverage of all OCA objectives for exam 1Z0-061, including: Data retrieval using the SQL SELECT statement Restricting and sorting data Single-row functions Using conversion functions and conditional expressions Reporting aggregated data with the group functions Displaying data from multiple tables with joins Using subqueries to solve problems Using the set operators Manipulating data with DML statements Using DDL statements to create and manage tables Electronic content includes: 150+ practice exam questions with detailed answers and explanations Score report performance assessment tool

**Oracle Database 12c Release 2 Real Application Clusters Handbook: Concepts, Administration, Tuning & Troubleshooting** K. Gopalakrishnan 2018-02-27 Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access

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to any online entitlements included with the product. Master Oracle Database 12c Release 2 Real Application Clusters with this comprehensive, fully updated guide. Now you can maintain a dynamic enterprise computing infrastructure with expert instruction from an Oracle ACE. Oracle Database 12c Release 2 Real Application Clusters Handbook: Concepts, Administration, Tuning, and Troubleshooting has been thoroughly revised and updated to cover the latest tools and features. Find out how to prepare your hardware, deploy Oracle Real Application Clusters, and integrate seamless failover protection. Troubleshooting, performance tuning, and application development are also discussed in this comprehensive Oracle Press guide.

- Install and configure Oracle Database 12c Release 2 Real Application Clusters
- Configure and manage disk groups using Oracle Automatic Storage Management
- Work with services, voting disks, and Oracle Clusterware repository
- Diagnose performance problems with Oracle Wait Interface
- Look under the hood of Cache Fusion and Global Resource Directory operations
- Explore the internal workings of backup and recovery in Oracle Real Application Clusters
- Employ workload balancing and Transparent Application Failover
- Troubleshoot Oracle Clusterware using advanced diagnostics
- Develop custom Oracle Real Application Clusters applications

Expert Oracle RAC 12c Riyaj Shamsudeen 2013-08-13 Expert Oracle RAC 12c is a hands-on book helping you understand and implement Oracle Real Application Clusters (RAC), and to reduce the total-cost-of-ownership (TCO) of a RAC database. As a seasoned professional, you are probably aware of the importance of understanding the technical details behind the RAC stack. This book provides deep understanding of RAC concepts and implementation details that you can apply toward your day-to-day operational practices. You'll be guided in troubleshooting and avoiding trouble in your installation. Successful RAC operation hinges upon a fast-performing network interconnect, and this book dedicates a chapter solely to that very important and easily overlooked topic. All four authors are experienced RAC engineers with a wealth of hard-won experience encountering and surmounting the challenges of running a RAC environment that delivers on its promise. In Expert Oracle RAC 12c they provide you a framework in which to avoid repeating their hard-won lessons. Their goal is for you to manage your own RAC environment with ease and expertise. Provides a deep conceptual understanding of RAC Provides best practices to implement RAC properly and match application workload Enables readers to troubleshoot RAC with ease What you'll learn Know when to apply RAC, and when not to Design applications to take advantage of RAC Troubleshoot and solve clusterware problems Manage database backup and recovery in RAC Stay on top of locking issues and deadlock detection Harness the performance from parallel processing in RAC Support your RAC environment with a healthy network interconnect Who this book is for Expert Oracle RAC 12c is for experienced Oracle Database Administrators (DBAs) who are ready to take the next step in their career by expanding their skill set to include building and managing Oracle Real Application Clusters (RAC). DBAs and architects who are in the process of implementing RAC can immensely benefit from this book. It's an excellent choice for DBAs to learn RAC conceptually, understand best practices, and become experts in troubleshooting RAC problems. Table of Contents Overview of Oracle RAC Clusterware Management and Troubleshooting RAC Operational Practices RAC New Features Storage and ASM Practices Application Design Issues Managing and Optimizing a Complex RAC Environment Backup and Recovery in RAC Network Practices in RAC RAC Database Optimization Locks and Deadlocks Parallel Query in RAC Clusterware and Database Upgrades Oracle RAC One Node

*Oracle Database 12c The Complete Reference* Bob Bryla 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 New Features** Robert G. Freeman 2013-12-10 Authored by Master Principle Database Expert; Oracle; and Oracle ACE Robert G. Freeman; this Oracle Press guide describes the myriad new and enhanced capabilities available in the latest Oracle Database release; and presents everything you need to get up and running quickly on Oracle Database 12c. --

Oracle Essentials Rick Greenwald 2013-09-06 Written by Oracle insiders, this indispensable guide distills an enormous amount of information about the Oracle Database into one compact volume. Ideal for novice and experienced DBAs, developers, managers, and users, Oracle Essentials walks you through technologies and features in Oracle's product line, including its architecture, data structures, networking, concurrency, and tuning. Complete with illustrations and helpful hints, this fifth edition provides a valuable one-stop overview of Oracle Database 12c, including an introduction to Oracle and cloud computing. Oracle Essentials provides the conceptual background you need to understand how Oracle truly works. Topics include: A complete overview of Oracle databases and data stores, and Fusion Middleware products and features Core concepts and structures in Oracle's architecture, including pluggable databases Oracle objects and the various datatypes Oracle supports System and database management, including Oracle Enterprise Manager 12c Security options, basic auditing capabilities, and options for meeting compliance needs Performance characteristics of disk, memory, and CPU tuning Basic principles of multiuser concurrency Oracle's online transaction processing (OLTP) Data warehouses, Big Data, and Oracle's business intelligence tools Backup and recovery, and high availability and failover solutions

*Oracle Database 12c Security Cookbook* Zoran Pavlovic 2016-06-06 Secure your Oracle Database 12c with this valuable Oracle support resource, featuring more than 100 solutions to the challenges of protecting your data About This Book Explore and learn the new security features introduced in Oracle Database 12c, to successfully secure your sensitive data Learn how to identify which security strategy is right for your needs - and how to apply it Each 'recipe' provides you with a single step-by-step solution, making this book a vital resource, delivering Oracle support in one accessible place Who This Book Is For This book is for DBAs, developers, and architects who are keen to know more about security in Oracle Database 12c. This book is best suited for beginners and intermediate-level database security practitioners. Basic knowledge of Oracle Database is expected, but no prior experience of securing a database is required. What You Will Learn Analyze application privileges and reduce the attack surface Reduce the risk of data exposure by using Oracle Data Redaction and Virtual Private Database Control data access and integrity in your organization using the appropriate database feature or option Learn how to protect your databases against application bypasses Audit user activity using the new auditing architecture Restrict highly privileged users from accessing data Encrypt data in Oracle Database Work in a real-world environment where a multi-layer security strategy is applied In Detail Businesses around the world are paying much greater attention toward database security than they ever have before. Not only does the current regulatory environment require tight security, particularly when dealing with sensitive

and personal data, data is also arguably a company's most valuable asset - why wouldn't you want to protect it in a secure and reliable database? Oracle Database lets you do exactly that. It's why it is one of the world's leading databases - with a rich portfolio of features to protect data from contemporary vulnerabilities, it's the go-to database for many organizations. Oracle Database 12c Security Cookbook helps DBAs, developers, and architects to better understand database security challenges. Let it guide you through the process of implementing appropriate security mechanisms, helping you to ensure you are taking proactive steps to keep your data safe. Featuring solutions for common security problems in the new Oracle Database 12c, with this book you can be confident about securing your database from a range of different threats and problems. Style and approach Each chapter explains the different aspects of security through a series of recipes. Each recipe presents instructions in a step-by-step manner, supported by explanations of the topic.

*OCA Oracle Database 12c Installation and Administration Exam Guide (Exam 1Z0-062)* John Watson 2014-05-28 A Complete Study System for OCA Exam 1Z0-062 Prepare for the Oracle Certified Associate Oracle Database 12c Installation and Administration exam with this exclusive Oracle Press guide. Each chapter features challenging exercises, a certification summary, a two-minute drill, and a self-test to reinforce the topics presented. This authoritative resource helps you pass the exam and also serves as an essential, on-the-job reference. Get complete coverage of all OCA objectives for exam 1Z0-062, including: Installing and upgrading Oracle Database software Managing the database instance Configuring the Oracle network environment Managing database storage structures Administering user security Managing undo data and data concurrency Implementing Oracle Database auditing Performing database maintenance Managing performance and tuning SQL Managing resources using Oracle Database Resource Manager Automating tasks Moving data Performing backup and recovery Installing Oracle Grid Infrastructure for a standalone server Electronic content includes: 185+ practice exam questions with detailed answers and explanations Test engine that provides custom exams by chapter or by domain PDF copy of the book

Oracle Database 10g The Complete Reference Kevin Loney 2004-09-28 Get a thorough understanding of Oracle Database 10g from the most comprehensive Oracle database reference on the market, published by Oracle Press. From critical architecture concepts to advanced object-oriented concepts, this powerhouse contains nearly 50 chapters designed to enlighten you. Upgrade from earlier versions, use SQL, SQL Plus, and PL/SQL. Get code examples and access popular documentation PDFs--plus a full electronic copy of the book on the included CD-ROM. Go beyond the basics and learn security, text searches, external tables, using Java in Oracle, and a great deal more.

**OCP Oracle Database 11g New Features for Administrators Exam Guide (Exam 1Z0-050)** Sam R. Alapati 2008-05-14 A Fully Integrated Study System for OCP Exam 1Z0-050 Prepare for the Oracle Certified Professional Oracle Database 11g New Features for Administrators exam with help from this exclusive Oracle Press guide. In each chapter, you'll find challenging exercises, practice questions, a two-minute drill, and a chapter summary to highlight what you've learned. This authoritative guide will help you pass the test, and serve as your essential on-the-job reference. Get complete coverage of all OCP objectives for exam 1Z0-050, including: Installation and upgrades Partitioning and storage Intelligent infrastructure Diagnostics and fault management Performance Oracle Recovery Manager and Oracle Flashback Security Oracle SQL Performance Analyzer SQL plan management Automatic SQL tuning On the CD-ROM: One full practice exam that simulates the actual OCP exam Detailed answers and explanations Score report performance assessment tool Complete electronic book Bonus exam available free with online registration

**OCP Upgrade to Oracle Database 12c Exam Guide (Exam 1Z0-060)** Sam R. Alapati 2014-06-13 A Fully Integrated Study System for OCP Exam 1Z0-060 Prepare for the Oracle Certified Professional Upgrade to Oracle Database 12c exam with this exclusive Oracle Press guide. Each chapter features step-by-step examples, a certification summary, a two-minute drill, and a self-test to reinforce the topics presented. This authoritative resource helps you pass the exam and also serves as an essential, on-the-job reference. Get complete coverage of the new features of Oracle Database 12c, including: Oracle Enterprise Manager Database Express and additional tools for database monitoring Multitenant container databases and pluggable databases Auditing, administrative privileges, data redaction, and other Oracle security features Adaptive execution plans, adaptive statistics, and automatic SQL plan management Oracle Recovery Manager backup and recovery improvements Oracle Database Resource Manager and other performance enhancements Oracle Data Pump, SQL\*Loader, external tables, and online operations enhancements Improvements to information lifecycle management and storage, including automatic data optimization, in-database archiving, and temporal validity Electronic content includes: 170 practice exam questions with detailed answer explanations

*Oracle Database 12c SQL* Jason Price 2013-06-26 Write Powerful SQL Statements and PL/SQL Programs Learn how to access Oracle databases through SQL statements and construct PL/SQL programs. Oracle Database 12c SQL offers complete coverage of the latest database features and techniques. Find out how to write SQL statements to retrieve and modify database information, use SQL\*Plus and SQL Developer, work with database objects, write PL/SQL programs, use performance optimization techniques, incorporate XML, and more. This Oracle Press guide contains everything you need to know to master SQL. Use SQL statements to access an Oracle database Work with SQL\*Plus and SQL Developer Write PL/SQL programs Create tables, sequences, indexes, views, and triggers Design advanced queries containing complex calculations Create database objects to handle abstract data Use date, time stamp, and time interval data types Establish user roles and privileges Handle multimedia files using large objects Tune SQL statements to make them execute faster Generate, process, and store XML data Master the very latest Oracle Database 12c features Code examples in the book are available for download.

**RMAN Recipes for Oracle Database 12c** Darl Kuhn 2013-07-16 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. What you'll learn Reliably back up and recover your database using Oracle's Recovery Manager Let Oracle Database manage your backup files via the Fast Recovery Area Automate backup and recovery tasks by writing scripts Troubleshoot RMAN problems and optimize RMAN performance Recover from the loss of a control file, loss of an online redo log, and from other unusual situations Who

this book is for RMAN Recipes for Oracle Database 12c is aimed squarely at Oracle database administrators responsible for database backup and recovery operations. Table of Contents Backup and Recovery 101 Jump-Starting RMAN Using the Fast 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 Implementing Oracle Secure Backup Performing Backup and Recovery with Enterprise Manager Using the Data Recovery Advisor Using RMAN on Windows DataGuard RMAN and RAC RMAN and ASM RMAN and Exadata

**Oracle Essentials** Rick Greenwald 2013-05-15 Written by experienced Oracle insiders, this essential guide distills a vast amount of information into an easy-to-read volume that covers every aspect of the Oracle database. Readers of all technical levels will learn about Oracle's features and technologies, including the product line, architecture, data structures, networking, concurrency, tuning and much more. Augmented with illustrations and helpful hints, the fifth edition of Oracle Essentials offers a valuable one-stop overview of Oracle Database 12c, Oracle's newest database release. More comprehensible than huge complete references, and more detailed than most primers, this book gives current Oracle users the conceptual background they need to understand how the Oracle database truly works. For those new to Oracle, this all-in-one guide provides an essential introduction that will get them up to speed.

*Expert Consolidation in Oracle Database 12c* Martin Bach 2014-01-23 Expert Consolidation in Oracle Database 12c is your key to reducing data management costs and increasing data center efficiency. Consolidation and cloud computing are converging trends sweeping the industry. The same technologies enabling cloud computing enable consolidation as well, leading to savings on all fronts from the amount of power used for servers to the amount of floor space consumed to the number of administrators needed to manage an installation. Yet the consolidation process can be a long and winding road. Success requires planning, and consideration to the impacts on supporting infrastructure. Expert Consolidation in Oracle Database 12c guides you through planning and implementing a consolidated Oracle Database installation using the many new features built into the latest release of Oracle's database management system. You'll learn to identify candidates for consolidation and to recognize instances that are best left stand-alone. The book guides in working with clustered systems and ASM storage in the consolidated environment. Focus is given to Oracle Enterprise Manager 12c Cloud Control as a monitoring and management dashboard. Always the goal is to drive towards a cost-effective environment that is efficient both in technology and people. Focuses on the new consolidation features in Oracle Database 12c Helps you evaluate and correctly decide when to consolidate Leads to cost savings and improved data center efficiency

**Oracle Database 10g DBA Handbook** Kevin Loney 2005-04-14 Everything a DBA needs to know in one volume--this is the must-have reference for anyone working with the Oracle database, and it's been fully revised and updated for Oracle Database 10g. Co-author Kevin Loney is the all-time, best-selling Oracle Press author.

*Keeping Up with Oracle Database 12c Multitenant - Book One* Robert G. Freeman 2015-04-07 Oracle Database 12c is the newest version of the Oracle flagship product. Arguably the biggest new feature for Oracle Database, Multitenant ushers in a totally new database architecture for Oracle. This book first provides an introduction to the Multitenant architecture. Then it takes the reader through the process of creating an Oracle database capable of creating the keystone of the multitenant database - the

Pluggable Database. The reader will also learn how to administer the multitenant database. They will learn about a new type of Oracle user called the common user. The reader will learn how to create a common user and manage security issues related to common users and PDBs. Chapter of Contents for Book One: 1INTRODUCTION TO ORACLE MULTITENANT 2CREATING THE CDB 3CREATING AND REMOVING PDBS 4ADMINISTRATION OF CDB AND PDB DATABASES 5BASIC USER AND ADMINISTRATION OF MULTITENANT DATABASES

Oracle Database 12c Security Scott Gaetjen 2015-01-09 Best Practices for Comprehensive Oracle Database Security Written by renowned experts from Oracle's National Security Group, Oracle Database 12c Security provides proven techniques for designing, implementing, and certifying secure Oracle Database systems in a multitenant architecture. The strategies are also applicable to standalone databases. This Oracle Press guide addresses everything from infrastructure to audit lifecycle and describes how to apply security measures in a holistic manner. The latest security features of Oracle Database 12c are explored in detail with practical and easy-to-understand examples. Connect users to databases in a secure manner Manage identity, authentication, and access control Implement database application security Provide security policies across enterprise applications using Real Application Security Control data access with Oracle Virtual Private Database Control sensitive data using data redaction and transparent sensitive data protection Control data access with Oracle Label Security Use Oracle Database Vault and Transparent Data Encryption for compliance, cybersecurity, and insider threats Implement auditing technologies, including Unified Audit Trail Manage security policies and monitor a secure database environment with Oracle Enterprise Manager Cloud Control

Oracle Database 12c PL/SQL Programming Michael McLaughlin 2014-02-07 Master Oracle Database 12c PL/SQL Application Development Develop, debug, and administer robust database programs. Filled with detailed examples and expert strategies from an Oracle ACE, Oracle Database 12c PL/SQL Programming explains how to retrieve and process data, write PL/SQL statements, execute effective queries, incorporate PHP and Java, and work with dynamic SQL. Code testing, security, and object-oriented programming techniques are fully covered in this comprehensive Oracle Press guide. Explore new SQL and PL/SQL features in Oracle Database 12c Build control structures, cursors, and loop statements Work with collections, varrays, tables, and associative array collections Locate and repair errors and employ exception handlers Execute black box, white box, and integration tests Configure and manage stored packages and libraries Handle security with authentication and encryption Use LOBs to store text and multimedia content Write and implement PL/SQL and Java triggers Extend functionality using dynamic SQL statements Understand object types, nested tables, and unnesting queries

**Oracle Database 12c Install, Configure & Maintain Like a Professional** Ian Abramson 2013-09-25 Filled with easy-to-follow tutorials; this Oracle Press guide details core database concepts; the role of the administrator; and enterprise database capabilities; and walks you through database configuration; administration; programming; backup and recovery; and high availability. --

*The Introduction to Private Cloud using Oracle Exadata and Oracle Database* Okcan Yasin Saygili 2020-01-02 Private clouds allow for managing multiple databases under one roof, avoiding unnecessary resource management. Private cloud solutions can be applied in sectors such as healthcare, retail, and software. The Introduction to Private Cloud using Oracle Exadata and Oracle Database will explore the general architecture of private cloud databases with a focus on Oracle's Exadata database machine. The book describes the private cloud using fundamental-level Exadata and database. Exadata has been Oracle's pioneer product for almost a decade. In the last few years, Oracle has positioned Exadata for customers to consume as a cloud service. This book will provide a timely introduction to Exadata for

current and potential Oracle customers and other IT professionals.

**Oracle Database 12c The Complete Reference** Bob Bryla 2013-10-02 "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"--

**Oracle Database 12c Release 2 Multitenant** Anton Els 2016-09-30 Master the Powerful Multitenant Features of Oracle Database 12c Govern a scalable, extensible, and highly available enterprise database environment using the practical information contained in this Oracle Press guide. Written by a team of Oracle Masters, Oracle Database 12c Release 2 Multitenant shows, step-by-step, how to deploy and manage multitenant configurations across IT frameworks of all types and sizes. Find out how to create databases, work with PDBs and CDBs, administer Oracle Net Services, and automate administrative tasks. Backup and recovery, security, and advanced multitenant options are covered in complete detail. Learn how to:

- Build high-performance multitenant Oracle databases
- Create single-tenant, multitenant, and application containers
- Establish network connections and manage services
- Handle security using authentication, authorization, and encryption
- Back up and restore your mission-critical data
- Work with point-in-time recovery and Oracle Flashback
- Move data and replicate and clone databases
- Work with Oracle's Resource Manager and Data Guard

*OCA/OCP Oracle Database 12c All-in-One Exam Guide (Exams 1Z0-061, 1Z0-062, & 1Z0-063)* John Watson 2015-08-28 This Oracle Press certification exam guide prepares you for the new Oracle Database 12c certification track, including the core requirements for OCA and OCP certification. OCA/OCP Oracle Database 12c All-in-One Exam Guide (Exams 1Z0-061, 1Z0-062, & 1Z0-063) covers all of the exam objectives on the Installation and Administration, SQL Fundamentals, and Advanced Administration exams in detail. Each chapter includes examples, practice questions, Inside the Exam sections highlighting key exam topics, a chapter summary, and a two-minute drill to reinforce essential knowledge. 300+ practice exam questions match the format, topics, and difficulty of the real exam. Electronic content includes interactive practice exam software with hundreds of questions that include detailed answers and explanations, and a score report performance assessment tool Ideal as both exam guide and on-the-job reference The most comprehensive single preparation tool for the Oracle Database 12c OCA and OCP certification exams

**Oracle Database 12c New Features** Robert G. Freeman 2013-12-13 Maximize the New and Improved Features of Oracle Database 12c Written by Master Principle Database Expert, Oracle, and Oracle ACE Robert G. Freeman, this Oracle Press guide describes the myriad new and enhanced capabilities available in the latest Oracle Database release. Inside, you'll find everything you need to know to get up and running quickly on Oracle Database 12c. Supported by running commentary from world-renowned Oracle expert Tom Kyte, and with additional contributions by Oracle experts Eric Yen and Scott Black, Oracle Database 12c New Features offers detailed coverage of: Installing Oracle Database 12c Architectural changes, such as Oracle Multitenant The most current information on upgrading and migrating to Oracle Database 12c The pre-upgrade information tool and parallel processing for database upgrades Oracle Real Application Clusters new features, such as Oracle Flex Cluster, Oracle Flex Automatic Storage Management, and Oracle Automatic Storage Management Cluster File System Oracle RMAN enhancements, including cross-platform backup and recovery Oracle Data Guard improvements, such as

Fast Sync, and Oracle Active Data Guard new features, such as Far Sync SQL, PL/SQL, DML, and DDL new features Improvements to partitioning manageability, performance, and availability Advanced business intelligence and data warehousing capabilities Security enhancements, including privileges analysis, data redaction, and new administrative-level privileges Manageability, performance, and optimization improvements

**Oracle Data Guard 11g Handbook** Larry Carpenter 2009-07-22 Master Oracle Data Guard 11g Provide superior data protection, availability, and disaster recovery using the tested techniques in this Oracle Press guide. Cowritten by a team of Oracle experts, Oracle Data Guard 11g Handbook provides a sound architectural foundation along with best practices for configuration, monitoring, maintenance, and troubleshooting. You will get full details on implementing deployment architectures to address requirements that extend beyond disaster recovery. This invaluable resource also includes a complete set of monitoring scripts available for download. Develop a disaster recovery plan for your Oracle database to meet your organization's requirements Configure and deploy Oracle Data Guard for your environment Tune and troubleshoot your physical and logical standby databases Implement the Oracle Data Guard Broker management framework Integrate with Oracle Grid Control Monitor your Oracle Data Guard environment Enable read-only services and disaster recovery with Oracle Active Data Guard Configure seamless database and application failover Minimize planned downtime using Oracle Data Guard switchover Handle backup and recovery with Oracle Recovery Manager

**Oracle Database 11g PL/SQL Programming** Michael McLaughlin 2008-04-19 Design Feature-Rich PL/SQL Applications Deliver dynamic, client/server PL/SQL applications with expert guidance from an Oracle programming professional. With full coverage of the latest features and tools, Oracle Database 11g PL/SQL Programming lays out each topic alongside detailed explanations, cut-and-paste syntax examples, and real-world case studies. Access and modify database information, construct powerful PL/SQL statements, execute effective queries, and deploy bulletproof security. You'll also learn how to implement C, C++, and Java procedures, Web-enable your database, cut development time, and optimize performance. Create, debug, and manage Oracle-driven PL/SQL programs Use PL/SQL structures, delimiters, operators, variables, and statements Identify and eliminate errors using PLSQL\_WARNINGS and exception handlers Work with functions, procedures, packages, collections, and triggers Define and deploy varray, nested table, and associative array data types Handle external routines, object types, large objects, and secure files Communicate between parallel sessions using DBMS\_ALERT and DBMS\_PIPE Call external procedures through Oracle Net Services and PL/SQL wrappers Integrate internal and server-side Java class libraries using Oracle JVM Develop robust Web applications using PL/SQL Gateway and Web Toolkit

*Oracle Database Exadata Cloud Service: A Beginner's Guide* Brian Spendolini 2018-11-09 Quickly Get Up and Running on Oracle Database Exadata Cloud Service Quickly install, configure, and start using Oracle Database Exadata Cloud Service with the hands-on information contained in this comprehensive Oracle Press guide. Designed for easy learning, the book features real-world examples, detailed illustrations, and step-by-step instructions. Oracle Database Exadata Cloud Service: A Beginner's Guide walks you through the basics and shows you how to provision, create, and deploy databases. Basic system administration tasks, including data backup and recovery, software patching, and system updating, are clearly explained. Advanced monitoring and data compression techniques are also covered. Inside, you'll discover how to:

- Set up and configure Oracle Database Exadata Cloud Service
- Navigate the user interface
- Work with tooling and CLIs
- Deploy smart scans and storage indexes
- Employ the latest compression techniques
- Handle Oracle Exadata resource management
- Administer Oracle Exadata Smart Flash Cache
- Manage and monitor your Oracle Exadata Cloud Service
- Migrate to Oracle Exadata

Cloud Service TAG: For a complete list of Oracle Press titles, visit [www.OraclePressBooks.com](http://www.OraclePressBooks.com).

*Unix for Oracle DBAs Pocket Reference* Donald K. Burleson 2001-02 The Unix for Oracle DBAs Pocket Reference puts within easy reach the commands that Oracle database administrators need most when operating in a Unix environment. If you are an Oracle DBA moving to Unix from another environment such as Windows NT or IBM Mainframe, you know that these commands are far different from those covered in most beginning Unix books. To jump start your learning process, Don Burleson has gathered together in this succinct book the Unix commands he most often uses when managing Oracle databases. You'll be able to reach into your pocket for the answer when you need to know how to: Display all Unix components related to Oracle, identify the top CPU consumers on your server, and even kill processes when necessary Stack Unix commands into powerful scripts that can perform vital DBA functions Monitor Unix filesystems, and automatically manage your trace files, dump files, and archived redo log files Use essential server monitoring commands such as top, sar, and vmstat And there's much more between these covers. If you need to get up to speed with Oracle on Unix, and quickly, this book is for you.

*Oracle PL/SQL Programming* Steven Feuerstein 2002 The authors have revised and updated this bestseller to include both the Oracle8i and new Oracle9i Internet-savvy database products.