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# Oracle Database 12c *New Features*

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# Oracle Database 12c New Features

**Robert G. Freeman**

## **Oracle Database 12c New Features:**

**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 Database 12c Release 2 New Features** Bob Bryla, Robert G. Freeman, 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 Install, Configure & Maintain Like a Professional** Ian Abramson, Michael Abbey, Michelle Malcher, Michael J. Corey, 2013-10-14 Master the Fundamentals of Oracle Database 12c Filled with easy to follow tutorials this Oracle Press

guide provides detailed coverage of core database concepts the role of the administrator and enterprise database capabilities Oracle Database 12c Install Configure Maintain Like a Professional walks you through database configuration administration programming backup and recovery and high availability You ll get in depth introductions to SQL and PL SQL as well as important information on managing large databases and using Oracle s engineered systems This essential beginner s resource features 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 Ask the Expert Q A sections filled with helpful tips Notes Extra information related to the topic being covered Mastery Checks Chapter ending quizzes to test your knowledge [Expert Consolidation in Oracle Database 12c](#) Martin Bach,2013-11-23

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 What you ll learn Master the new consolidation and cloud features in Oracle Database 12c Correctly decide when to consolidate and when to remain standalone Reduce cost by reducing demand for rack space power and floor space Streamline administration with Oracle Enterprise Manager 12c Cloud Control Ensure the correct supporting infrastructure for a rock solid environment Safeguard your new consolidate infrastructure from disaster and data loss Who this book is for Expert Consolidation in Oracle Database 12c is aimed at database administrators involved in consolidation efforts or who are interested in exploring Oracle Database 12c s strong support for consolidation and cloud computing Table of Contents1

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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 12c Release 2 New Features & The Oracle Cloud](#) David Yahalom,2017

*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

[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

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**Oracle 12c For Dummies** Chris Ruel,Michael Wessler,2013-10-24 Demystifying the power of the Oracle 12c database The Oracle database is the industry leading relational database management system RDMS used from small companies to the world s largest enterprises alike for their most critical business and analytical processing Oracle 12c includes industry leading enhancements to enable cloud computing and empowers users to manage both Big Data and traditional data structures faster and cheaper than ever before Oracle 12c For Dummies is the perfect guide for a novice database administrator or an Oracle DBA who is new to Oracle 12c The book covers what you need to know about Oracle 12c architecture software tools and how to successfully manage Oracle databases in the real world Highlights the important features of Oracle 12c Explains how to create populate protect tune and troubleshoot a new Oracle database Covers advanced Oracle 12c technologies including Oracle Multitenant the pluggable database concept as well as several other key changes in this release Make the most of Oracle 12c s improved efficiency stronger security and simplified management capabilities with Oracle 12c For

Dummies **Oracle Database 12c Security** Scott Gaetjen,David Knox,William Maroulis,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 Upgrade and Migration Methods](#) Y V Ravikumar,K M Krishnakumar,Nassyam Basha,2017-03-01 Learn all of the available upgrade and migration methods in detail to move to Oracle Database version 12c. You will become familiar with database upgrade best practices to complete the upgrade in an effective manner and understand the Oracle Database 12c patching process. So it's time to upgrade Oracle Database to version 12c and you need to choose the appropriate method while considering issues such as downtime. This book explains all of the available upgrade and migration methods so you can choose the one that suits your environment. You will be aware of the practical issues and proactive measures to take to upgrade successfully and reduce unexpected issues. With every release of Oracle Database there are new features and fixes to bugs identified in previous versions. As each release becomes obsolete, existing databases need to be upgraded. Oracle Database Upgrade and Migration Methods explains each method along with its strategy, requirements, steps, and known issues that have been seen so far. This book also compares the methods to help you choose the proper method according to your constraints. Also included in this book: Pre requisite patches and pre upgrade steps. Patching to perform changes at the binary and database level to apply bug fixes. What You Will Learn: Understand the need and importance of database upgrading and migration. Be aware of the challenges associated with database upgrade decision making. Compare all upgrade migration methods. Become familiar with database upgrade best practices and recommendations. Understand database upgrade concepts in high availability and multi tenant environments. Know the database downgrade steps in case the upgraded database isn't compatible with the environment. Discover the features and benefits to the organization when it moves from the old database version to the latest database version. Understand Oracle 12c patching concepts. Who This Book Is For: Core database administrators, solution architects, business consultants, and database architects. [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 Oracle RMAN Backup and Recovery Robert G. Freeman,Matthew Hart,2016-04-01 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

**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 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 *Expert Oracle Database Architecture* Thomas Kyte, Darl Kuhn, 2014-11-10

Now in its third edition this best selling book continues to bring you some of the best thinking on how to apply Oracle Database to produce scalable applications that perform well and deliver correct results Tom Kyte and Darl Kuhn share a simple philosophy you can treat Oracle as a black box and just stick data into it or you can understand how it works and exploit it as a powerful computing environment If you choose the latter then you'll find that there are few information management problems that you cannot solve quickly and elegantly This fully revised third edition covers the developments up to Oracle Database 12c Significant new content is included surrounding Oracle's new cloud feature set and especially the use of pluggable databases Each feature is taught in a proof by example manner not only discussing what it is but also how it works how to implement software using it and the common pitfalls associated with it Don't treat Oracle Database as a black box Get this book Get under the hood Turbo charge your career Revised to cover Oracle Database 12c Proof by example approach Let the evidence be your guide Dives deeply into Oracle Database's most powerful features **Oracle 12c New**

**Features, Part I LiveLessons** James Czuprynski, 2015 4 Hours of Video Instruction Overview In the wake of the release of Oracle Database 12c R1 and its most recent upgrade 12.1.0.2 many IT organizations are at last turning their attention to evaluating experimenting with and implementing the myriad features of this latest release Description Oracle ACE Director Jim Czuprynski demonstrates how to take advantage of these new features to Speed query execution Conserve disk space Implement true storage tiering Manage maintenance of partitioned objects effectively Perform database backups and recovery quickly and efficiently About the Instructor Jim Czuprynski's information technology experience spans three decades He served in diverse roles at several Fortune 1000 companies as a mainframe programmer applications developer business analyst and project manager before becoming an Oracle DBA in 2001 He currently holds OCP certification for Oracle 9i 10g and 11g He was awarded the status of Oracle ACE Director in March 2014 Jim writes regularly about the myriad facets of Oracle database administration with over a hundred articles to his credit since 2003 Find them at

databasejournal.com and ioug.org Jim's blog Generally It Depends <http://jimczuprynski.wordpress.com> is a series of observations on all things Oracle Jim is also a sought after public speaker on Oracle Database technology features He has presented topics at Oracle OpenWorld IOUG's COLLABORATE Hotsos Symposium Oracle Technology Network ACE Tours and Oracle User Group conferences around the world He has taught the core Oracle University database administration courses on behalf of Oracle and its Education Partners throughout the United States and Canada instructing several hundred Oracle DBAs since 2005 He was selected as Oracle Education PartnerInstructor of the Year in 2009 Skill Level Intermediate What You Will Learn Understand how the In Memory features of Oracle Database 12.1.0.2 In Memory Column Store In Memory Joins and In Memory Aggregation offer potential improvements of one to two orders of magnitude especially for data warehousing queries without changing any application code Discover how to implement Oracle Database 12c's new Information Lifecycle Management ILM features and leverage them to improve flash and spinning disk storage allocation and query response time while simultaneously establishing viable strategies for data obsolescence Understand how the query optimizer has been **Oracle Database 12c Release 2 Multitenant** Anton Els, Vit Špinka, Franck Pachot, 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

*Oracle Database 12c PL/SQL Advanced Programming Techniques* Michael McLaughlin, John M. Harper, 2014-11-14 Take Your PL/SQL Programming Skills to the Next Level Build robust database centric PL/SQL applications quickly and effectively Oracle Database 12c PL/SQL Advanced Programming Techniques shows you how to write and deploy Java libraries inside Oracle Database 12c use the utl\_file and DBMS\_SCHEDULER packages and create external tables and external procedures Application security performance tuning and Oracle Database In Memory are also covered in this Oracle Press guide Configure, deploy, and troubleshoot Java libraries for Oracle object types Use the utl\_file package to manage unstructured and structured data Develop and deploy Java I/O libraries and wrap them with PL/SQL Create and use external tables Implement high speed data transfer Harden database systems and develop secure applications Manage complex schedules and jobs with the DBMS\_SCHEDULER package Optimize PL/SQL for use in performance tuning Create and deploy external procedures

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**Oracle Database 12c Release 2 Real Application Clusters Handbook: Concepts, Administration, Tuning & Troubleshooting** K. Gopalakrishnan, Sam R.

Alapati, 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 and 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.

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