

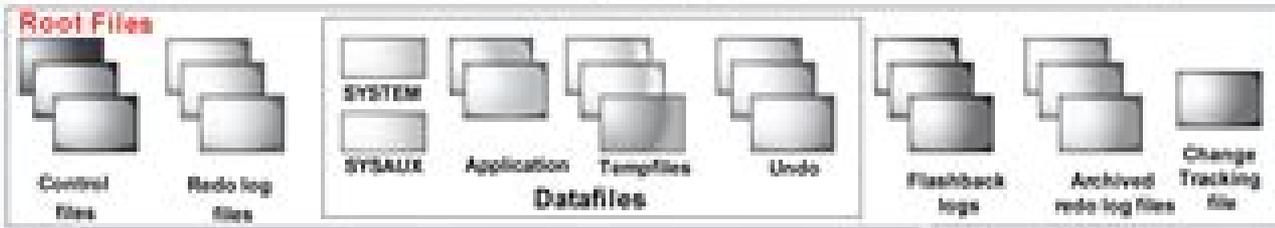


Multitenant Container Database (CDB)

Root Database (CDB\$ROOT)



CDB Instance PDB_1 ... PDB_n



Oracle Database 12c New Features

Chris Ruel, Michael Wessler



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 12c Release 2 New Features & The Oracle Cloud* David Yahalom,2017 *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

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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 12c Release 2 New Features & The Oracle Cloud ,2017 Explore some of the most interesting new features of Oracle 12c Release 2 and learn everything you need to know to create and connect to an Oracle database in the Oracle Cloud platform

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

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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, Kevin Loney, 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 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 Partner Instructor 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 improved

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.

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- 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 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.

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 Implement the Oracle Database In Memory column store feature

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 Exadata Expert's Handbook](#) Tariq Farooq, Charles Kim, Nitin Vengurlekar, Sridhar Avantsa, Guy Harrison, Syed Jaffar Hussain, 2015-06-12 The Practical Authoritative 360 Degree Technical Guide to Oracle Exadata From Setup to Administration Optimization Tuning and Troubleshooting The blazingly fast Oracle Exadata Database Machine is being embraced by thousands of large scale users worldwide by governments the military enterprise organizations cloud service providers and anyone who needs extreme performance Now Oracle Exadata Expert s Handbook provides authoritative guidance to running Oracle Exadata with maximum reliability effectiveness performance and efficiency Six renowned Oracle technology experts have brought together core technical information experience best practices and insider tips in a concise reference Covering both 11g and 12c versions of Oracle Exadata software they deliver hands on coverage of best practices setup migration monitoring administration performance tuning and troubleshooting Whether you re an Oracle Exadata DBA DMA architect or manager you need these insights Get a 360 degree overview of the Oracle Exadata Database Machine Efficiently deploy RAC within the Oracle Exadata ecosystem Fully leverage Storage Cell s extraordinary performance via Offloading Smart Scans and Hybrid Columnar Compression Manage Exadata with OEM 12c perform setup configuration asset target discovery and day to day administration Tune Oracle Exadata for even better performance Perform Exadata Backup Recovery DR with RMAN and Data Guard Migrate to Oracle Exadata from other platforms Use Oracle Exadata with the ZFS Storage Appliance Consolidate within the Exadata Database Cloud *Oracle 12c New Features* James Czuprynski, 2015 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 Resource description page [Oracle Database 12c Release 2 Testing Tools and](#)

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web the reaction in our example above would be written as ${}^6_3\text{Li} + {}^4_2\text{He} \rightarrow {}^9_4\text{Be} + {}^4_2\text{He} + 2\alpha$ balancing a radioactive decay equation in balancing a nuclear equation it is important to remember that the sum of all the mass numbers and atomic numbers given on the upper

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