
Oracle Database 12c New Features

Oracle 12c: New Features
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- Book One
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For Oracle Database 12c
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ORACLE DATABASE 12C HANDS-ON SQL AND
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Oracle Database 12c New Features
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Beginning Oracle SQL
From Novice to Professional
ORACLE High-Performance SQL Tuning

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YOUNG BARKER

Oracle 12c: New Features McGraw Hill Professional
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 PL/SQL Programming
 Createspace
 Independent Publishing

Platform

This book is a practical step-by-step tutorial with screenshots for carrying out tasks showing you how to manage and administer your data center with Oracle Enterprise Manager. It is packed with best practices and tips that will help you benefit from the author's extensive experience of working with Oracle Enterprise Manager since at least a decade, and combined with his 25+ years IT industry experience. If you are a Data Center, IT or Database Team manager who wants to take advantage of the automation and compliance benefits of Enterprise Manager 12c Cloud Control, then Oracle Enterprise Mana.
 Apress

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. *Managing Data Center Chaos* McGraw Hill Professional 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...
Oracle Database 12c New Features "O'Reilly

Media, Inc."

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.

Oracle Database 12c Release 2 Performance Tuning Tips & Techniques Apress
Introduce the latest version of the fundamental SQL language used in all relational databases today with Casteel's *ORACLE 12C: SQL, 3E*. Much more than a study guide, this edition helps those who have only a basic knowledge of databases master the latest SQL and Oracle concepts and techniques. Learners gain a strong understanding of how to use Oracle 12c SQL

most effectively as they prepare for the first exam in the Oracle Database Administrator or Oracle Developer Certification Exam paths. This edition initially focuses on creating database objects, including tables, constraints, indexes, sequences, and more. The author then explores data query techniques, such as row filtering, joins, single-row functions, aggregate functions, subqueries, and views, as well as advanced query topics. *ORACLE 12C: SQL, 3E* introduces the latest features and enhancements in 12c, from enhanced data types and invisible columns to new *CROSS* and *OUTER APPLY* methods for joins. To help readers transition to further studies,

appendixes introduce SQL tuning, compare Oracle's SQL syntax with other databases, and overview Oracle connection interface tools: SQL Developer and SQL Plus. Readers can trust ORACLE 12C: SQL, 3E to provide the knowledge for Oracle certification testing and the solid foundation for pursuing a career as a successful database administrator or developer. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Oracle 12c New Features Packt Publishing Ltd

This Oracle Press guide illuminates and details the revolutionary new features and tools available in Oracle

Database 12c. *Troubleshooting Oracle Performance* CreateSpace
This Oracle Press eBook is filled with cutting-edge security techniques for Oracle Database 12c. It covers authentication, access control, encryption, auditing, controlling SQL input, data masking, validating configuration compliance, and more. Each chapter covers a single threat area, and each security mechanism reinforces the others.

Oracle 12c: SQL

McGraw Hill Professional 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 12c Release 2 New Features & The Oracle Cloud Apress](#)

This integrated learning solution teaches all the Oracle PL/SQL skills you need, hands-on, through real-world labs, extensive examples, exercises, and projects! Completely updated for Oracle 11g, Oracle PL/SQL by Example ,

Fourth Edition covers all the fundamentals, from PL/SQL syntax and program control through packages and Oracle 11g's significantly improved triggers. One step at a time, you'll walk through every key task, discovering the most important PL/SQL programming techniques on your own. Building on your hands-on learning, the authors share solutions that offer deeper insights and proven best practices. End-of-chapter projects bring together all the techniques you've learned, strengthening your understanding through real-world practice. This book's approach fully reflects the authors' award-winning experience teaching PL/SQL programming to

professionals at Columbia University. New database developers and DBAs can use its step-by-step instructions to get productive fast; experienced PL/SQL programmers can use this book as a practical solutions reference. Coverage includes • Mastering basic PL/SQL concepts and general programming language fundamentals, and understanding SQL's role in PL/SQL • Using conditional and iterative program control techniques, including the new CONTINUE and CONTINUE WHEN statements • Efficiently handling errors and exceptions • Working with cursors and triggers, including Oracle 11g's powerful new compound triggers • Using stored

procedures, functions, and packages to write modular code that other programs can execute • Working with collections, object-relational features, native dynamic SQL, bulk SQL, and other advanced PL/SQL capabilities • Handy reference appendices: PL/SQL formatting guide, sample database schema, ANSI SQL standards reference, and more McGraw Hill Professional

"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.

Live Lessons Apress

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 SQL Oracle Database 12c New Features Oracle Database 12c New Features McGraw Hill Professional *Keeping Up with Oracle Database 12c Multitenant - Book One* Apress 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. Oracle 12c New Features McGraw Hill Professional 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 the Oracle PL/SQL language such as external procedures, securing data using Virtual Private Database (VPD), SecureFiles, and PL/SQL code tracing and profiling
 Implement Virtual Private Databases to prevent unauthorized data access
 Trace, analyze, profile, and debug PL/SQL code while developing database applications
 Integrate the new application development features of Oracle Database 12c with the current

concepts Discover techniques to analyze and maintain PL/SQL code Get acquainted with the best practices of writing PL/SQL code and develop secure applications In Detail Oracle Database is one of the most popular databases and allows users to make efficient use of their resources and to enhance service levels while reducing the IT costs incurred. Oracle Database is sometimes compared with Microsoft SQL Server, however, Oracle Database clearly supersedes SQL server in terms of high availability and addressing planned and unplanned downtime. Oracle PL/SQL provides a rich platform for application developers to code and build scalable database applications and

introduces multiple new features and enhancements to improve development experience. Advanced Oracle PL/SQL Developer's Guide, Second Edition is a handy technical reference for seasoned professionals in the database development space. This book starts with a refresher of fundamental concepts of PL/SQL, such as anonymous block, subprograms, and exceptions, and prepares you for the upcoming advanced concepts. The next chapter introduces you to the new features of Oracle Database 12c, not limited to PL/SQL. In this chapter, you will understand some of the most talked about features such as Multitenant and Database In-Memory.

Moving forward, each chapter introduces advanced concepts with the help of demonstrations, and provides you with the latest update from Oracle Database 12c context. This helps you to visualize the pre- and post-applications of a feature over the database releases. By the end of this book, you will have become an expert in PL/SQL programming and will be able to implement advanced concepts of PL/SQL for efficient management of Oracle Database. Style and approach The book follows the structure of the Oracle Certification examination but doesn't restrict itself to the exam objectives. Advanced concepts have been explained in an easy-to-understand style, supported with

feature demonstrations and case illustrations. *Oracle SQL Tuning with Oracle SQLTXPLAIN* Apress 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 The Complete Reference

McGraw Hill Professional

A practical guide showing you how to tune your SQL the way Oracle's own experts do it ... with a simple-to-use, free-download tool called SQLTXPLAIN. You will be able to tune even the most complex SQL quickly without the huge learning curve usually associated with tuning as a whole.

Pro Oracle Database 11g Administration

John Wiley & Sons

Beginning Oracle Database 12c Administration is your entry point into a successful and satisfying career as an Oracle Database Administrator. The chapters of this book

are logically organized into four parts closely tracking the way your database administration career will naturally evolve. Part 1 "Database Concepts" gives necessary background in relational database theory and Oracle Database concepts, Part 2 "Database Implementation" teaches how to implement an Oracle database correctly, Part 3 "Database Support" exposes you to the daily routine of a database administrator, and Part 4 "Database Tuning" introduces the fine art of performance tuning. Beginning Oracle Database 12c Administration provides information that you won't find in other books on Oracle Database. You'll

discover not only technical information, but also guidance on work practices that are as vital to your success as are your technical skills. The author's favorite chapter is "The Big Picture and the Ten Deliverables." (It is the editor's favorite chapter too!) If you take the lessons in that chapter to heart, you can quickly become a much better Oracle database administrator than you ever thought possible. You will grasp the key aspects of theory behind relational database management systems and learn how to:

- Install and configure an Oracle database, and ensure that it's properly licensed;
- Execute common management tasks in a Linux environment;
- Defend against data

loss by implementing sound backup and recovery practices; and

- Improve database and query performance.

Oracle Database 12c DBA Handbook McGraw Hill Professional

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 Oracle RMAN Backup

and Recovery Pearson Education
 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

Related with Oracle Database 12c New Features:

- Amoeba Sisters Introduction To Cells Worksheet

Answers : [click here](#)