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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. Als Administrator der Oracle Database finden Sie in diesem Handbuch die ideale Unterstützung für die Herausforderungen Ihres Alltags. Hier hat sich eine Gruppe namhafter und praxiserfahrener Autoren zusammengetan, die gemeinsam 134 Jahre Erfahrung mit dieser Datenbank aufweisen und in den jeweiligen Kapiteln ihre Spezialgebiete darstellen. Die Autoren vermitteln Ihnen fundiertes Know-how sowie praktische Lösungen zu Themen wie Aufbau und Betrieb eines Datenbankservers, Administration und Monitoring, High Availability, Backup und Recovery, Security, Upgrade einer Datenbank und Optimierung. Zusätzlich finden Sie in diesem Handbuch neben einer Darstellung der Produkte und Features der Oracle Database 12c viele Beispiele, Praxistipps und Tricks, die Sie direkt in Ihre tägliche Arbeit integrieren können und die über Versionsgrenzen hinweg anwendbar sind. Im Internet finden Sie nicht nur die nützlichen Skripte des Buches, sondern auch wichtige Informationen, ideal aufbereitet. The book teaches the basics of the Oracle database from a beginner's perspective to the advanced concepts using a hands-on approach. Each and every concept has been elaborated with suitable practical examples along with code for clear and precise understanding of the topic. Using a practical approach, this new edition of the book covers the detailed introspection of pluggable databases and explains practically the various new features incorporated in the new 12c version. It also explains how to retrieve, add, update and delete data in the Oracle database using SQL, SQL\*PLUS and PL/SQL. In

the process, it discusses the various data types and built-in functions of Oracle, as well as the sorting of records and the table operations. The text also includes coverage of advanced queries using special operators, Oracle security, indexing, and stored functions and procedures. The book is suitable for undergraduate engineering students of Computer Science and Information Technology, B.Sc. (Computer Science/IT), M.Sc. (Computer Science/IT) and students of Computer Applications (BCA, MCA, PGDCA, and DCA). Besides, the book can be used as a reference by professionals pursuing short-term courses on Oracle Database and students of Oracle Certified Courses.

**KEY FEATURES**

- Based on latest Oracle Database 12c: It explains the various features introduced with the new Oracle Database 12c software.
- Hands-on methodology: Its objective is to impart practical skills using hands-on methodology.
- Elaborate Practical Examples: Each topic begins with appropriate theory and concept followed by relevant examples for better understanding of the concepts.
- Commands tested and executed on Oracle Database software: All the programming examples have been tested on actual Oracle Database software. Explains how to write powerful SQL statements and PL/SQL programs using Oracle Database 12c.

Original. "Learning Oracle PL/SQL" introduces PL/SQL in a way that's useful to a variety of audiences: beginning programmers, new Oracle database administrators, and developers familiar with other databases who now need to learn Oracle. A consistent and understandable example application--the development of a library's electronic catalog system--runs through the chapters. 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

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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 Using PL/SQL for Oracle Database 12c,

you can build solutions that deliver unprecedented performance and efficiency in any environment, including the cloud. Oracle® PL/SQL by Example, Fifth Edition, teaches all the PL/SQL skills you'll need, through real-world labs, extensive examples, exercises, and projects. Now fully updated for the newest version of PL/SQL, it covers everything from basic syntax and program control through the latest optimization and security enhancements. Step by step, you'll walk through every key task, mastering today's most valuable Oracle 12c PL/SQL programming techniques on your own. Start by downloading projects and exercises from [informit.com/title/0133796787](http://informit.com/title/0133796787). Once you've done an exercise, the authors don't just present the answer: They offer an in-depth discussion introducing deeper insights and modern best practices. This book's approach fully reflects the authors' award-winning experience teaching PL/SQL to professionals at Columbia University. New database developers and DBAs can use it to get productive fast; experienced PL/SQL programmers will find it to be a superb Oracle Database 12c solutions reference. New in This Edition Updated code examples throughout Result-caching of invoker's right functions for better performance Extended support for PL/SQL-only data types in dynamic SQL, OCI, and JDBC Security enhancements, including ACCESSIBLE BY whitelists,

improved privilege control, and Invisible Columns Other topics covered Mastering basic PL/SQL concepts and language fundamentals, and understanding SQL's role in PL/SQL Using conditional and iterative program control, including CONTINUE and CONTINUE WHEN Efficiently handling errors and exceptions Working with cursors and triggers, including compound triggers Using stored procedures, functions, and packages to write modular code that other programs can run Working with collections, object-relational features, native dynamic SQL, bulk SQL, and other advanced features The authors have revised and updated this bestseller to include both the Oracle8i and new Oracle9i Internet-savvy database products. 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 "Manage and safeguard your organization's data"--Cover. Oracle Database 12c Release 1 is now supported on Linux on IBM® System z®. This platform offers many advantages to customers who rely upon the IBM mainframe systems to run their businesses. Linux on System z takes advantage of the qualities of service in the System z hardware and in IBM z/VM®, making it a robust industrial strength version of Linux. This provides an excellent platform for hosting Oracle solutions that run in an enterprise. This IBM Redbooks® publication shares experiences that are gained while installing and testing Oracle Database 12c Release 1: Recommendations about how to set up an infrastructure Installing an Oracle Grid Infrastructure Installing Oracle 12C R1 Real Application Clusters (RAC) and creating a RAC Database, including a multitenant database Using the Cloud Control Agent to manage Oracle Database 12c Release 1 Installing Oracle WebLogic Server 12c Upgrading from an Oracle Database from 11gR2 to 12c Release 1 The audience for this publication includes database consultants, installers, administrators, and system programmers. This publication is not meant to replace Oracle documentation, but to supplement it with our experiences while installing and using Oracle products. Annotation This pocket reference condenses the most vital information from Oracle PL/SQL programming into an accessible quick reference that summarises the basics of PL/SQL - block structure, fundamental language elements, data structures, control statements, and use of procedures, functions and packages. "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"-- Protecting Oracle Database 12c helps you solve the problem of maximizing the safety, resilience, and security of an Oracle database whilst preserving performance, availability, and integration despite ongoing and new security issues in the software. The book demonstrates, through coded examples, how you can enable the consolidation features of Oracle Database 12c without increasing risk of either internal corruption or external vulnerability. In addition, new protections not publicly available are included, so that you can see how demonstrable risk improvements can be achieved, measured, and reported through Enterprise Manager 12c. Most importantly, the challenge of privileged access control within a consolidation environment will be addressed, thus enabling a safe move to greater efficiency. An all-in-one study guide prepares you for the updated Oracle Certified Associate certification It's been nearly six years since Oracle updated its cornerstonedatabase software, making the demand for a comprehensive studyguide for the OCA 12c certification a top priority. This resourceanswers that demand. Packed with invaluable insight, chapter reviewquestions, bonus practice exams, hundreds of electronic flashcards,and a searchable glossary of terms, this study guide prepares youfor the challenging Oracle certification exams. Provides you with a solid understanding of restricting andsorting data Walks you through using conversion functions and conditionalexpressions Addresses displaying data from multiple tables, manipulatingdata, database maintenance, and database backups and recovery Explores the Oracle database architecture and discussespreparing the

database environment, creating an Oracle database, and managing the Oracle instance Focuses on administering and implementing user security This must-have study guide thoroughly prepares you to take the dramatically updated Oracle 12c OCA exams. 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. Proven PL/SQL Optimization Solutions In Oracle PL/SQL Performance Tuning Tips & Techniques, Oracle ACE authors with decades of experience building complex production systems for government, industry, and educational organizations present a hands-on approach to enabling optimal results from PL/SQL. The book begins by describing the discovery process required to pinpoint performance problems and then provides measurable and repeatable test cases. In-depth coverage of linking SQL and PL/SQL is followed by deep dives into essential Oracle Database performance tuning tools. Real-world examples and best practices are included throughout this Oracle Press guide. Follow a request-driven nine-step process to identify and address performance problems in web applications Use performance-related database tools, including data dictionary views, logging, tracing, PL/SQL Hierarchical Profiler, PL/Scope, and RUNSTATS Instrument code to pinpoint performance issues using call stack APIs, error stack APIs, and timing markers Embed PL/SQL in SQL and manage user-defined functions Embed SQL in PL/SQL using a set-based approach to handle large volumes of data Properly write and deploy data manipulation language triggers to avoid performance problems Work with advanced datatypes, including LOBs and XML Use caching techniques to avoid redundant operations Effectively use dynamic SQL to reduce the amount of code needed and streamline system management Manage version control and ensure that performance fixes are successfully deployed Code examples in the book are available for download. "Este libro sobre Oracle 12c se dirige a todos los informáticos que quieran adquirir todas las competencias necesarias que le permitan dominar la gestión de una base de datos Oracle. El autor repasa los conceptos, definiciones y reglas del modelo relacional y detalla su utilización dentro del marco de las herramientas ofrecidas de manera estándar con Oracle Database 12c, es decir SQL, SQL\*PLUS, PL/SQL et Java. Se estudian las técnicas de programación en PL/SQL, con el objetivo de poder utilizar toda la potencia del servidor de base de datos Oracle 12c, así como las novedades añadidas en esta versión : tipo de datos extendidos, uso de una secuencia como valor por defecto de una columna de tipo clave primaria o identidad, secuencia de nivel de sesión, soporte de la sintaxis ANSI que permite limitar el número de filas devuelto por una consulta, definición de una función PL/SQL en la cláusula WITH de una consulta, procedimiento PL/SQL que devuelve un resultado implícito, etc. Además de todo esto, este libro presenta la herramienta SQL Developer y el entorno de desarrollo de aplicaciones Web Oracle Application Express (APEX). Muchos ejemplos concretos ayudan a adquirir el dominio de estos lenguajes de referencia en el mundo de las bases de datos relacionales"--ENI Ediciones. Beginning Oracle SQL is your introduction to the interactive query tools and specific dialect of SQL used with Oracle Database. These tools include SQL\*Plus and SQL Developer. SQL\*Plus is the one tool any Oracle developer or database administrator can always count on, and it is widely used in creating scripts to automate routine tasks. SQL Developer is a powerful, graphical environment for developing and debugging queries. Oracle's is possibly the most valuable dialect of SQL from a career standpoint. Oracle's database engine is widely used in corporate environments worldwide. It is also found in many government applications. Oracle SQL implements many features not found in competing products. No developer or DBA working with Oracle can afford to be without knowledge of these features and how they work, because of the performance and expressiveness they bring to the table. Written in an easygoing and example-based style, Beginning Oracle SQL is the book that will get you started down the path to successfully writing SQL statements and getting results from Oracle Database. Takes an example-based approach, with clear and authoritative explanations Introduces both SQL and the query tools used to execute SQL statements

Shows how to create tables, populate them with data, and then query that data to generate business results 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 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. Learn how to most effectively use PL/SQL programming language with one of the most popular and widely-used software programs in large companies today -- Oracle 11g. ORACLE 11G: PL/SQL PROGRAMMING & ORACLE CD, 2E uses Oracle 11g to provide an overview of the PL/SQL programming language from a developer's perspective. The author begins with a step-by-step expanded introduction to fundamental PL/SQL concepts before progressing to the writing and testing of PL/SQL code. This edition also covers more advanced topics, such as Dynamic SQL and code tuning, as well as developments in bulk processing, compound triggers, PL/SQL compiler features and hiding source code. Updates reflect the latest Oracle 11g release with the most recent figures and examples using the user-friendly SQL Developer tool. A wealth of real-world

examples, a straightforward presentation, and accompanying Oracle CD make this book is an invaluable resource in preparing for the new Oracle Certification exam or mastering the PL/SQL programming language with Oracle. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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 Considered the best Oracle PL/SQL programming guide by the Oracle community, this definitive guide is precisely what you need to make the most of Oracle's powerful procedural language. The sixth edition describes the features and capabilities of PL/SQL up through Oracle Database 12c Release 1. Hundreds of thousands of PL/SQL developers have benefited from this book over the last twenty years; this edition continues that tradition. With extensive code examples and a lively sense of humor, this book explains language fundamentals, explores advanced coding techniques, and offers best practices to help you solve real-world problems. Get PL/SQL programs up and running quickly, with clear instructions for executing, tracing, testing, debugging, and managing code Understand new 12.1 features, including the ACCESSIBLE\_BY clause, WITH FUNCTION and UDF pragma, BEQUEATH CURRENT\_USER for views, and new conditional compilation directives Take advantage of extensive code samples, from easy-to-follow examples to reusable packaged utilities Optimize PL/SQL performance with features like the function result cache and Oracle utilities such as PL/Scope and the PL/SQL hierarchical profiler Build modular, easy-to-maintain PL/SQL applications using packages, procedures, functions, and triggers Considered the best Oracle PL/SQL programming guide by the Oracle community, this definitive guide is precisely what you need to make the most of Oracle's powerful procedural language. The sixth edition describes the features and capabilities of PL/SQL up through Oracle Database 12c Release 1. Hundreds of thousands of PL/SQL developers have benefited from this book over the last twenty years; this edition continues that tradition. With extensive code examples and a lively sense of humor, this book explains language fundamentals, explores advanced coding techniques, and offers best practices to help you solve real-world problems. Get PL/SQL programs up and running quickly, with clear instructions for executing, tracing, testing, debugging, and managing code Understand new 12.1 features, including the ACCESSIBLE\_BY clause, WITH FUNCTION and UDF pragma, BEQUEATH CURRENT\_USER for views, and new conditional compilation directives Take advantage of extensive code samples, from easy-to-follow examples to reusable packaged utilities Optimize PL/SQL performance with features like the function result cache and Oracle utilities such as PL/Scope and the PL/SQL hierarchical profiler Build modular, easy-to-maintain PL/SQL applications using packages, procedures, functions, and triggers

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 This book is for enthusiast who would like to know 12c new features with real life examples. This book expanded the following features of 12c SQL: - Row limiting clause, expand sqltext of a view, internal parser re-written sql, Invisible column, session level sequence, extended data type, truncate with cascade option, default value for NULL column, auto populate column using sequence and identity type, advanced index compression, Lateral/cross apply/outer apply, multiple index on a column, match\_recognise clause for inter-rows pattern, In memory column store etc. For 12c PL/SQL it has expanded the following features: - WITH clause improvement, PRAGMA UDF, REDACTION, BEQUEATH clause, Restructuring error stack and backtrace, enhancement in PL/SQL specific data type support in NDS & binding, white listing by means of accessible by clause, Invoker right code using result\_cache, improvement in conditional compilation, granting role to stored subprogram instead of user etc. For 12c ADMINISTRATION it has expanded the following features: - Adaptive query optimization and online stats gathering, faster online table column addition, DDL LOGGING, adding multiple new partition, global temporary table enhancement, stats gathering improvement, heat map, improvement in auditing using flashback, improvement in tracking security sensitive tables, import & export of version history, free flashback archive and optimize option, Multitenant container database with Pluggable database option etc. While explaining only 12c new features, I have tried to provide alternative approach prior to 12c also so that the reader can understand the concept with an ease. Hope this 75 pages book will help immensely to learn all the 12c new features and help the reader to use the features in real life confidently. An Expert Guide for Solving Complex Oracle Database Problems Oracle Database Problem Solving and Troubleshooting Handbook delivers comprehensive, practical, and up-to-date advice for running the Oracle Database reliably and efficiently in complex production environments. Seven leading Oracle experts have brought together an unmatched collection of proven solutions, hands-on examples, and step-by-step tips for Oracle Database 12c, 11g, and other recent versions of Oracle Database. Every solution is crafted to help experienced Oracle DBAs and DMAs understand and fix serious problems as rapidly as possible. The authors cover LOB segments, UNDO tablespaces, high GC buffer wait events, poor query response times, latch contention, indexing, XA distributed transactions, RMAN backup/recovery, and much more. They also offer in-depth coverage of a wide range of topics, including DDL optimization, VLDB tuning, database forensics, adaptive cursor sharing, data pumps, data migration, SSDs, indexes, and how to go about fixing Oracle RAC problems. Learn how to Choose the quickest path to solve high-impact problems Use modern best practices to make your day more efficient and predictable Construct your "Call 9-1-1 plan" for future database emergencies Proactively perform maintenance to improve your environment's stability Save time with industry-standard tools and scripts Register your product at [informit.com/register](http://informit.com/register) for convenient access to downloads, updates, and corrections as they become available. "The book starts at a basic level with the idea of introducing the reader step by step through the programming of Oracle taking him by the hand to achieve an advanced level. It will start showing the introduction of code in the SQL\*Plus environment and the extensive development of the entity-relationship through Oracle SQL which is the mainstay of programming in relational databases. Also, it is exhaustively procedural programming language PL/SQL Oracle, which extends the standard SQL language."--

Cover. 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 Niemic. 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

Als Administrator der Oracle Database finden Sie in diesem Handbuch die ideale Unterstützung für die Herausforderungen Ihres Alltags. Hier hat sich eine Gruppe namhafter und praxiserfahrener Autoren zusammengetan, die gemeinsam 134 Jahre Erfahrung mit dieser Datenbank aufweisen und in den jeweiligen Kapiteln ihre Spezialgebiete darstellen. Die Autoren vermitteln Ihnen fundiertes Know-how sowie praktische Lösungen zu Themen wie Aufbau und Betrieb eines Datenbankservers, Administration und Monitoring, High Availability, Backup und Recovery, Security, Upgrade einer Datenbank und Optimierung. Zusätzlich finden Sie in diesem Handbuch neben einer Darstellung der Produkte und Features der Oracle Database 12c viele Beispiele, Praxistipps und Tricks, die Sie direkt in Ihre tägliche Arbeit integrieren können und die über Versionsgrenzen hinweg anwendbar sind. Im Internet finden Sie nicht nur die nützlichen Skripte des Buches, sondern auch wichtige Informationen, ideal aufbereitet. Extra: E-Book inside Systemvoraussetzungen für E-Book inside: Internet-Verbindung und Adobe-Reader oder Ebook-Reader bzw. Adobe Digital Editions. 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 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. -- 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.

Performance problems are rarely "problems" per se. They are more often "crises" during which you're pressured for results by a manager standing outside your cubicle while your phone rings with queries from the help desk. You won't have the time for a leisurely perusal of the manuals, nor to lean back and read a book

on theory. What you need in that situation is a book of solutions, and solutions are precisely what Oracle Database 12c Performance Tuning Recipes delivers. Oracle Database 12c Performance Tuning Recipes is a ready reference for database administrators in need of immediate help with performance issues relating to Oracle Database. The book takes an example-based approach, wherein each chapter covers a specific problem domain. Within each chapter are "recipes," showing by example how to perform common tasks in that chapter's domain. Solutions in the recipes are backed by clear explanations of background and theory from the author team. Whatever the task, if it's performance-related, you'll probably find a recipe and a solution in this book. Provides proven solutions to real-life Oracle performance problems Offers relevant background and theory to support each solution Gets straight to the point for when you're under pressure for results Ce livre sur Oracle 12c s'adresse à tout informaticien désireux de maîtriser la gestion d'une base de données Oracle. L'auteur reprend les concepts, définitions et règles du modèle relationnel et détaille son utilisation dans le cadre des outils proposés en standard avec Oracle Database 12c, c'est-à-dire SQL, SQL\*PLUS, PL/SQL et Java. Les techniques de programmation en PL/SQL sont étudiées afin de pouvoir utiliser toute la puissance du serveur de bases de données Oracle 12c ainsi que les nouveautés apportées par cette version : type de données étendu, utilisation d'une séquence comme valeur par défaut d'une colonne, colonne identité, colonne invisible, séquence de niveau session, support de la syntaxe ANSI permettant de limiter le nombre de lignes retournées par une requête, définition d'une fonction PL/SQL dans la clause WITH d'une requête, procédure PL/SQL qui retourne un résultat implicite, etc. Par ailleurs, cet ouvrage présente l'outil SQL Developer et l'environnement de développement d'application Web Oracle Application Express (APEX). Des exemples nombreux et précis aident le lecteur à maîtriser ces langages de référence dans le monde des bases de données relationnelles. Ces exemples sont en téléchargement sur le site des éditions ENI.

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