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Home » Articles » 12c » Here Oracle 12c includes a number of PL/SQL new features and enhancements, many of which have been covered in separate articles on this site. This article serves as a link to all of those, as well as introducing some of the more minor features listed in the Changes in Oracle Database 12c Release 1 section of the PL/SQL Language Reference manual. Topics covered in this article: Topics covered in Separate articles on this site: Invoker Rights Functions on its use was that invoker rights functions could not be cached. This restriction has been removed in Oracle Database 12c Release 1. Libraries Defined Using Directory Objects and Credentials In previous versions of the database, libraries were defined with an explicit path and were run by extproc as the Oracle software owner. In Oracle 12c, the CREATE LIBRARY statement has been enhanced to allow libraries to be optionally defined using directory objects and credentials (DBMS CREDENTIAL). -- Pre-12c: Still valid in 12c. CREATE OR REPLACE LIBRARY my lib Is '/path/to/my lib.so'; / -- 12c: Using Directory to specify path to object. CREATE OR REPLACE DIRECTORY my dir AS '/path/to/"; CREATE LIBRARY my lib AS 'my lib.so' IN my dir; / --12c: Using credential. BEGIN DBMS CREDENTIAL.create credential (credential name => 'my cred', username => 'my cred', use Oracle 10g. Oracle database 12c includes two new Predefined Inquiry Directives called \$\$PLSQL UNIT OWNER and \$\$PLSQL UNIT TYPE, so the list now includes the following. \$\$PLSQL UNIT : The name of the current PL/SQL program unit. \$\$PLSQL UNIT OWNER : The owner of the current PL/SQL program unit. \$\$PLSQL UNIT TYPE: The type (procedure, function, package etc.) of the current PL/SQL program unit. \$\$plsql compilation parameter: One of the PL/SQL compilation parameters (PLSCOPE SETTINGS, PLSQL CCFLAGS, PLSQL CODE TYPE, PLSQL OPTIMIZE LEVEL, PLSQL WARNINGS, NLS_LENGTH_SEMANTICS, PERMIT_92_WRAP_FORMAT). PLSQL_DEBUG Compilation Parameter is Deprecated. Using PLSQL_OPTIMIZE_LEVEL is not listed in parameter documentation itself, but it is mentioned in the PL/SQL Compilation Parameters list. PL/SQL Packages and Types Reference Manual is always filled with lots of changes for each database release. It is worth spending some time looking at the changes that have been introduced with the new release. For more information see: Hope this helps. Regards Tim... Back to the Top. Oracle and/or its affiliates. All rights reserved. Primary Authors: Lavanya Jayapalan, Louise Morin Contributing Authors: Tulika Das, Patricia Huey, S. Moore Contributors: D. Alpern, E. Belden, S. Agrawal, H. Baer, S. Castledine, T. Chang, B. Cheng, R. Dani, R. Decker, C. Iyer, A. Kruglikov, N. Le, W. Li, B. Llewellyn, V. Moore, T. Raney, R. Rajagopalan, K. Rich, I. Stocks, C. Wetherell, S. Wolicki, G. Viswanathan, M. Yang This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited. 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AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks or registered trademarks or registered trademarks or not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle. 6/6 This chapter lists the books available online that document Oracle. Data Mining Documentation Documentation Documentation Part Number Description Oracle Data Mining Concepts E17692 Discusses the basic concepts underlying Oracle Data Mining User's Guide E53115 Explains how to use the SQL interface to Oracle Data Mining to create models and score data. This Guide also addresses administrative issues such as security, import/export, and upgrade for Oracle Database Gateway Installation and Configuration Guide for Microsoft Windows E17926 Describes how to install Oracle Database Gateway for Sybase, Informix, Teradata, SQL Server, ODBC, and DRDA on Microsoft Windows (32-bit) and Microsoft Windows (64-bit), platform. Oracle Solaris on SPARC (64-Bit), Oracle Solaris on x86-64 (64-Bit), and HP-UX Itanium E17927 Describes how to install and configure Oracle Database Gateway for Sybase, Informix, Teradata, SQL Server, ODBC, and DRDA on UNIX-based platforms. Oracle Database Gateway for APPC Installation and Configuration Guide for Microsoft Windows E17928 Provides Oracle applications with seamless access to IBM mainframe data and services through Remote Procedure Call (RPC) processing. Oracle Database Gateway for APPC Installation and Configuration Guide for IBM AIX on POWER Systems (64-Bit), Linux x86-64, Oracle applications with seamless access to IBM mainframe data and services through Remote Procedure Call (RPC) processing. Oracle Database Gateway for WebSphere MQ Installation and User's Guide E17930 Provides access to WebSphere MQ services. This gateway requires a system that is capable of running 64-bit applications. Oracle Database Gateway for APPC User's Guide E17931 Provides Oracle applications seamless access to virtually any APPC-enabled system, including IBM mainframe data and services through Remote Procedure Call (RPC) processing. Oracle Database Gateway for Sybase User's Guide E17932 Describes the Oracle Database Gateway for Sybase Gateway for Informix User's Guide E17933 Describes the Oracle Database Gateway for Informix, which enables Oracle client applications to access Informix data through Structured Query Language (SQL). 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Table 3-3 Installation Documentation Documentation Part Number Description Oracle Database SQL Translation and Migration Guide E22508 Describes the installation, configuration, and administration tasks for all activities related to migration Guide For Linux E41491 Provides configuration information for network and system administrators, and database installation information for database administrators (DBAs) who install and configure Oracle Database and Oracle Database and Oracle Database Migration Assistant for Unicode, discusses the database character set migration process, and verifies that there are no character set data problems in a current Unicode database. Oracle Grid Infrastructure for a cluster software, which includes Oracle Clusterware and Oracle Automatic Storage Management (Oracle ASM), on systems running Linux. Oracle Database Client Installation Guide for Microsoft Windows E49462 Describes how to install and configure Oracle Database Client on Windows. Oracle Database Client Installation Guide for Microsoft Windows E49462 Describes how to install and configure Oracle Database Client Installation Guide for Microsoft Windows E49462 Describes how to install and configure Oracle Database Client Installation Guide for Microsoft Windows E49462 Describes how to install and configure Oracle Database Client Installation Guide for Microsoft Windows E49462 Describes how to install and configure Oracle Database Client Installation Guide for Microsoft Windows E49462 Describes how to install and configure Oracle Database Client Installation Guide for Microsoft Windows E49462 Describes how to install and configure Oracle Database Client Installation Guide for Microsoft Windows E49462 Describes how to install and configure Oracle Database Client Installation Guide for Microsoft Windows E49462 Describes how to install and configure Oracle Database Client Installation Guide for Microsoft Windows E49462 Describes how to install and configure Oracle Database Client Installation Guide for Microsoft Windows E49462 Describes how to install and configure Oracle Database Client Installation Guide for Microsoft Windows E49462 Describes how to install Albabase Client Installation Guide for Microsoft Windows E49462 Describes how to install Albabase Client Installation Guide for Microsoft Windows E49462 Describes how to install Albabase Client Installation Guide for Microsoft Windows E49462 Describes how to install Albabase Client Installation Guide for Microsoft Windows E49462 Describes how to install Albabase Client Installation Guide for Microsoft Windows E49462 Describes how to install Albabase Client Installation Guide for Microsoft Windows E49462 Describes how to install Albabase Client Installation Guide for Microsoft Windows E49462 Describes how to install Albabase Microsoft Windows E49462 Describe information for database administrators (DBAs) who install and configure Oracle Grid Infrastructure for a standalone server on Oracle Grid Infrastructure for a cluster software, which includes Oracle Clusterware and Oracle Automatic Storage Management (Oracle ASM), on systems running Oracle Database Quick Installation Guide for Linux x86-64 systems. Oracle Database Quick Installation Guide for Linux x86-64 systems running Oracle Database Quick Installation Guide for Linux x86-64 systems. Oracle Database Quick Installation Guide for Linux x86-64 systems. Oracle Database Quick Installation Guide for Linux x86-64 systems. Oracle Database Client Quick Installation Guide for Linux x86-64 E55098 Describes how to quickly install Oracle Database Client on Cracle Database Client on Oracle Database Client on Oracle Database Client on Cracle Database Client on Cracle Database Client on Cracle Database Client on Oracle Database Client on Cracle Database Client Oracle Database Client on Cracle Database Client on Cracle Database Client Oracle Database Client on Cracle Database Client on Cracle Database Client on Cracle Database Client Oracle Database Solaris on SPARC (64-Bit) E55100 Describes how to quickly install Oracle Database Olient Quick Installation Guide for Orac Oracle Solaris on x86-64 (64-Bit) E55102 Describes how to quickly install Oracle Database on Oracle Solaris on x86-64 (64-Bit). Oracle Database Client Quick Installation Guide for Oracle Solaris on x86-64 (64-Bit). Oracle Database Client Quick Installation Guide for Oracle Solaris on x86-64 (64-Bit). E55464 Describes how to install and configure the products available on the Oracle Database Client Quick Installation Guide for IBM AIX on POWER Systems (64-Bit). Oracle Database Client Installation Guide for IBM AIX on POWER Systems (64-Bit) E56492 Describes how to install and configure Oracle Database Client on IBM AIX on POWER Systems (64-Bit). Oracle Database Oracle Database Oracle Database Client Quick Installation Guide for Microsoft Windows x64 (64-Bit) E56585 Describes how to quickly install Oracle Database Quick Installation Guide for IBM AIX on POWER Systems (64-Bit) E56891 Describes how to quickly install Oracle Database Quick Installation Guide for IBM AIX on POWER Systems (64-Bit) E56891 Describes how to quickly install Oracle Database Quick Installation Guide for IBM AIX on POWER Systems (64-Bit) E56891 Describes how to quickly install Oracle Database Quick Installation Guide for IBM AIX on POWER Systems (64-Bit) E56891 Describes how to quickly install Oracle Database Quick Installation Guide for IBM AIX on POWER Systems (64-Bit) E56891 Describes how to quickly install Oracle Database Quick Installation Guide for IBM AIX on POWER Systems (64-Bit) E56891 Describes how to quickly install Oracle Database Quick Installation Guide for IBM AIX on POWER Systems (64-Bit) E56891 Describes how to quickly install Oracle Database Quick Installation Guide for IBM AIX on POWER Systems (64-Bit) E56891 Describes how to quickly install Oracle Database Quick Installation Guide for IBM AIX on POWER Systems (64-Bit) E56891 Describes how to quickly install Oracle Database Quick Installation Guide for IBM AIX on POWER Systems (64-Bit) E56891 Describes how to quickly install Oracle Database Quick Installation Guide for IBM AIX on POWER Systems (64-Bit) E56891 Describes how to quickly installation Guide for IBM AIX on POWER Systems (64-Bit) E56891 Describes how to quickly installation Guide for IBM AIX on POWER Systems (64-Bit) E56891 Describes how to quickly installation Guide for IBM AIX on POWER Systems (64-Bit) E56891 Describes how to quickly installation Guide for IBM AIX on POWER Systems (64-Bit) E56891 Describes how to quickly installation Guide for IBM AIX on POWER Systems (64-Bit) E56891 Describes how to quickly installation Guide for IBM AIX on POWER Systems (64-Bit) E56891 Describes how to quickly installation Guide for IBM AIX on POWER Systems (64-Bit) E56891 Describes how to quickly installation Guide for IBM A Installation Guide for HP-UX Itanium E56892 Provides configuration information for network and system administrators, and database administrators (DBAs) who install and configure Oracle Database administrators, and database installation information for database administrators (DBAs) who install and configure Oracle Database administrators, and database installation information for database administrators. HP-UX Itanium E56893 Describes how to quickly install Oracle Database Olient on HP-UX Itanium E56894 Describes how to quickly install Oracle Database Olient on HP-UX Itanium E56895 Describes how to quickly install Oracle Database Olient Oracle Database Olient on HP-UX Itanium E56896 Describes how to quickly install Oracle Database Olient Orac install Oracle Database on Z/Linux systems. Oracle Database Client Quick Installation Guide for IBM: Linux on System z E56896 Describes how to quickly install Oracle Database Client Quick Installation Guide for Microsoft Windows (32-Bit) E56927 Describes how to quickly install Oracle Database Client On Installation Guide for IBM: Linux systems. Oracle Database Client Quick Installation Guide for Microsoft Windows (32-Bit) E56927 Describes how to quickly install Oracle Database Client Outcome Database Clie Windows 32-bit systems. Table 3-6 Microsoft Windows Documentation Documentation Part Number Description Oracle Database Platform Guide for Microsoft Windows platform. Topics discussed include: architecture, services, tools, configuration, administration, tuning, backup, accounts, passwords, user authentication, registry parameters, and application development. Oracle Data Provider for .NET Developer's Guide for Microsoft Windows E17732 Describes provider-specific features and properties of ODP.NET. Oracle Data Provider for .NET is an implementation of Microsoft's ADO.NET interface and provides access to Oracle Providers for ASP.NET Developer's Guide for Microsoft Windows E17733 Provides introductory, installation, postinstallation, po Guide for Microsoft Windows E18595 Describes Oracle Services for Microsoft Transaction Server, which allows Oracle databases to be used as resource managers in distributed Transaction Coordinator environment. Oracle Database Extensions for .NET Developer's Guide for Microsoft Windows E18596 Provides introductory, installation, post-installation, post-installation configuration, and usage information Part Number Description Oracle Multimedia Reference E17696 Presents reference information about using Oracle Database to store, manage, and other objects, or other heterogeneous media data in an integrated fashion with other enterprise information. Oracle Multimedia extends Oracle Database reliability, availability, availability, availability, and data management to multimedia content in Internet, electronic commerce, medical, financial, and other media-rich applications. Oracle Database to store, manage, and retrieve images, audio, video, DICOM format medical images and other objects, or other heterogeneous media data in an integrated fashion with other enterprise information. Oracle Multimedia content in traditional, Internet, electronic commerce, medical, financial, and other media-rich applications. Oracle Multimedia DICOM Developer's Guide E17698 Presents reference and other information about using Oracle Database to store, manage, and retrieve DICOM content such as single-frame and multiframe images, waveforms, slices of 3-D volumes, video segments, and structured reports in an integrated fashion with other enterprise information. Oracle Multimedia DICOM extends Oracle Database reliability, availability, availability, and data management to media objects in medical applications. Oracle Multimedia DICOM supports Digital Imaging and Communications in Medicine, the standard for medical images. Oracle Multimedia objects to manage multimedia content within Oracle Database. Oracle Multimedia DICOM Java API Reference E17700 Presents reference information about writing Java applications in Medicine (DICOM) data within Oracle Database. Oracle Multimedia Mid-Tier Java API Reference E17701 Presents reference information about writing Java applications using Oracle Multimedia to extract Digital Imaging and Communications in Medicine (DICOM) metadata outside of the database, either on the client or in the middle tier. Oracle Multimedia Servlets and JSP Java API Reference E28184 Presents reference information about writing Java applications using Java servlets and JavaServer Pages (JSP) to retrieve and upload multimedia data from and to Oracle Database. Table 3-8 OLAP Documentation define and manipulate analytic workspace objects. Oracle OLAP Java API Developer's Guide E17707 Provides guidance for developing client applications using the Oracle OLAP Java API. Oracle OLAP Java API Developer's Guide E17707 Provides guidance for developing client applications using the Oracle OLAP Java API. Oracle OLAP Java API Developer's Guide E17707 Provides guidance for developing client applications using the Oracle OLAP Java API. 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Oracle OLAP expression Syntax used to generate information-rich content from the data stored in dimensional database objects such as cubes and cube dimensions. Oracle OLAP User's Guide E53237 Explains how SQL applications can extend their analytic processing capabilities and manage summary data by using the OLAP option of Oracle Database. Table 3-9 Release Notes Documentation Documentation Part Number Description Pro*COBOL Release Notes E18407 Contains important information not included in the Pro*COBOL Programmer's Guide. Pro*C/C++ Release Notes E18409 Contains important information not included in the Pro*COBOL Programmer's Guide. Pro*C/C++ Programmer's Guide. Pro*C/C++ Release Notes E18409 Contains important information not included in the Pro*COBOL Programmer's Guide. Pro*C/C++ Pro*C/C++ Programmer's Guide. Pro*C/C++ Programmer's Guide. Pro*C/C++ Programmer's Guide. Pro*C/C++ Pro*C/C++ Pro*C/C++ Pro*C/C++ Assistant for Unicode Release Notes E51606 Contains late-breaking information for Oracle Database Release Notes E51606 Contains important information not included in Oracle Database Release Notes E51606 Contains late-breaking information not included in Oracle Database Release Notes E51606 Contains late-breaking information not included in Oracle Database Release Notes E51606 Contains late-breaking information not included in Oracle Database Release Notes E51606 Contains late-breaking information not included in Oracle Database Release Notes E51606 Contains late-breaking information not included in Oracle Database Release Notes E51606 Contains late-breaking information not included in Oracle Database Release Notes E51606 Contains late-breaking information not included in Oracle Database Release Notes E51606 Contains late-breaking information not included in Oracle Database Release Notes E51606 Contains late-breaking information not included in Oracle Database Release Notes E51606 Contains late-breaking information not included in Oracle Database Release Notes E51606 Contains late-breaking information not included in Oracle Database Release Notes E51606 Contains late-breaking information not included in Oracle Database Release Notes E51606 Contains late-breaking information not included in Oracle Database Release Notes E51606 Contains late-breaking information not included in Oracle Database Release Notes E51606 Contains late-breaking information not included in Oracle Database Release Notes E51606 Contains late-breaking information not included in Oracle Database Release Notes E51606 Contains late-breaking information not included in Oracle Database Release Notes E51606 Contains late-breaking information not included in Oracle Database Release Notes E51606 Contains late-breaking information not included in Oracle Database Release Notes E51606 Contains late-breaking information not included in Oracle Database Release Notes E51606 Contains late-breaking information not included in Oracle Database Release Notes E5 features, functionality, platforms supported, software required, server requirements, hardware required, testing matrix, UNIX platform certification Documentation Part Number Description Administration, Concepts, and Reference Oracle Database Administrator's Reference for Linux and UNIX-Based Operating Systems E10638 Explains how to configure and manage Oracle Database on Linux and UNIX-Based Operating Systems. Oracle Database on Linux and UNIX-Based Operating Systems. the syntax of functions, methods, and procedures associated with these APIs. Oracle Database XML C++ API Reference E15977 Describes Oracle XML Developer's Kits (XDK) and Oracle XML Dev Database Sample Schemas E15979 Describes the sample database and used in some Oracle Database and used in some Oracle documentation and curriculum examples. Oracle Database Schemas available with Oracle Database and used in some Oracle Database Database and used in some Oracle Database and used i Database Gateways and is a user's guide for these Oracle Database Advanced Queuing (AQ). This information applies to versions of the Oracle Database server that run on all platforms, unless otherwise specified. SQL*Plus Release Notes E18402 Contains a complete list of SQL*Plus User's Guide and Reference E18403 Contains a complete description of the SQL*Plus command-line interface to Oracle Database, and a complete reference to SQL*Plus commands and syntax. Oracle Database Global Data Services can include Oracle Real Application Clusters (Oracle RAC) and noncluster Oracle databases interconnected through Oracle Data Guard, or any other replication technology. Oracle Database High Availability Best Practices E40019 Provides high availability best practices for configuring and maintaining your Oracle Database system and network components. Oracle Database VLDB and Partitioning Guide E41057 Contains an overview of very large database (VLDB) topics, with emphasis on partitioning and parallel execution as a key component of the VLDB strategy. Oracle Automatic Storage Management (Oracle ASM) for Oracle Database Oracle Database SQL Language Reference E41329 Contains a complete description of Oracle Database Concepts E41396 Describes Oracle Database architecture and essential topics for database administrators and developers. Oracle Database Upgrade Guide E41397 Guides you through the process of planning and performing upgrades for Oracle Database. This book also provides information about compatibility, upgrading applications, and changes in the new release that affect upgrading Oracle Database. Oracle Database. Includes sections on Oracle Scheduler, Oracle Database Reference E41527 Provides reference E41527 Provides reference E41527 Provides reference information about database, and distributed computing. Oracle Database Reference E41527 Provides reference E41527 Provides reference information about database. Oracle Database Reference E41527 Provides Reference Database Utilities E41528 Describes how to use Oracle Database, transfer data between databases, and maintain data. The topics discussed include Data Pump Export, Data Pump E DBVERIFY, DBNEWID, LogMiner, the Metadata API, original Export, and orig global environment, and program with Unicode. Oracle Database PL/SQL Packages and Types Reference E41829 Describes the PL/SQL access to SQL features. Oracle Database Quality of Service Management User's Guide E49047 Describes the concepts of Oracle Database Quality of Service Management (Oracle Database QoS Management), and explains how to configure, administer, and troubleshoot Oracle Database QoS Management. Oracle Database Performance Tuning Guide E49058 Provides information about how to tune the performance of Oracle Database using Oracle performance tools. Oracle Database High Availability Overview E49097 Introduces Oracle MAA solutions for deploying a highly available environment, helps you determine your availability. Oracle Database Vault Administrator's Guide E49109 Explains how to configure an Oracle database to use Oracle Database Vault, which enables users to restrict and monitor administrative user access. Oracle Database SQL Language Quick Reference E49206 Contains a high-level text description of the SQL syntax used to manage information in Oracle Database Vault, which enables users to restrict and monitor administrative user access. Oracle Database SQL Language Quick Reference E49206 Contains a high-level text description of the SQL syntax used to manage information in Oracle Database Vault, which enables users to restrict and monitor administrative user access. Oracle Database licensing. If you have a question about your licensing needs, contact your Oracle Database Readme E49321 Describes important last-minute features and changes not included in the Oracle Database Documentation Library for 12c Release 1 (12.1) Oracle Database New Features Guide E49322 Oracle Database New Features Guide is addressed to those of you familiar with previous releases of Oracle Database Error Messages Reference E49325 Describes error messages that may appear while using products that are part of Oracle Database. Oracle Database PL/SQL entities or server-side Java classes. Oracle Database PL/SQL Language Reference E50727 Presents PL/SQL, the Oracle procedural extension of SQL, an advanced fourth-generation programming language. Explains the concepts behind PL/SQL and illustrates every facet of the language. Oracle Database in a small to midsize environment, using the graphical user interface of Oracle Enterprise Manager Database Express. If you are familiar with computers, but unfamiliar with administering Oracle Database, and your computer has four CPUs or fewer, and you do not expect to support more than 500 users, this book is appropriate for you. Oracle Database Testing Guide E55028 Provides information about how to assure the integrity of database changes and manage test data using Oracle Database 2 Day + Performance Tuning Guide E55047 Explains how to perform day-to-day database performance tuning tasks using features provided by Oracle Diagnostics Pack, Oracle Tuning Pack, and Oracle Enterprise Manager Cloud Control. Application Development Oracle Database Data Cartridge Developer's Guide E15882 Describes how to implement custom indexing and query optimization services and how to package and use these as a server extension called a data cartridge. Oracle Database SecureFiles and Large Objects Developer's Guide E17605 Describes use of SecureFiles and large object data types BLOB, CLOB, NCLOB, and BFILE in application development. Presents APIs for working with LOBs in supported programmatic environments. Describes database file systems and the Oracle Database File System Hierarchical Store package. Oracle Database SQLJ Developer's Guide E17660 Provides guidance to developers on SQLJ programming, but assumes at least some prior knowledge of Java, SQLJ, PL/SQL, and Oracle database. Oracle Database 2 Day + PHP Developer's Guide E18554 Provides a tutorial on how to develop PHP scripts that use the database languages SQL and PL/SQL to access and manipulate Oracle SQL Developer, a graphical tool that enables you to browse, create, edit, and delete (drop) database objects; run SQL statements and scripts; edit and debug PL/SQL code; manipulate and export data; migrate third-party databases to Oracle; view metadata and data in third-party databases; and view and create reports. Note: This book is for an old release of SQL Developer. You are encouraged to use the latest available release. See for information about downloads and documentation. Oracle XML DB Developer's Guide E41152 This manual describes Oracle XML DB. It includes guidelines and examples for storing, generating, accessing, searching, validating, transforming, evolving, and indexing XML data in Oracle Database. Oracle Database Development Guide E41452 Provides usage information for developers (all experience levels) of databases and database applications. Oracle Database SQL Tuning Guide E49106 Describes how to perform SQL tuning, which is the iterative process of improving SQL statement performance to meet specific, measurable, and achievable goals. Oracle Database Workspace Manager Developer's Guide E49170 Provides usage and reference information about Oracle Workspace Manager, which enables applications to create workspaces and group different versions of table row values in different workspaces. Oracle Database, introduces basic features of SQL and PL/SQL, provides references to in-depth information elsewhere in Oracle Database library, and shows how to create a simple application. Oracle Database. Oracle Database Object-Relational Developer's Kit Programmer's Guide E54405 Provides information to application developers who need to use components of the Oracle XML Developer's Kit (XDK) to generate and store XML data in a database or in a document outside the database. Application Express Oracle Application Express Release Notes E17957 Contains important information not included in the documentation for Oracle Application Express. Oracle Application Express Installation Guide E17958 Provides an overview of installing Oracle Application Express and describes issues to consider before installing. Oracle Application Express and describes issues to consider before installing. Oracle Application Express and describes issues to consider before installing. hosted demonstration environment. It then walks you through building an initial application, modifying it, and previewing it. Oracle Application Express development environment to build and deploy database-centric Web applications. Oracle Application Express Application Migration Guide E17962 Describes how to convert application Express API Reference E17963 Describes the Application Express environment. Oracle Application Express SQL Workshop Guide E17964 Describes how to use Oracle Application Express SQL Workshop and utilities to load and unload data from an Oracle database, generate DDL, view object reports, and restore dropped database objects. Oracle Application Express Administration Guide E17965 Describes how to perform administration tasks for an Oracle Application Express workspace, application, or an entire development instance. Oracle Application Express end User Guide E29541 Explains common Oracle Application, or an entire development instance. Oracle Application Express end User Guide E29541 Explains how to use Recovery Manager (RMAN) to back up, recover, and duplicate a database, and how to use Oracle Flashback Technology to restore all or a portion of your data to a previous state. Oracle Database Backup and Recovery Reference E50791 Provides detailed descriptions of the Recovery Manager (RMAN) commands and recovery catalog views. Data Warehousing Oracle Database Data Warehousing Guide E41670 Provides conceptual, reference, and implementation material for using Oracle Data warehousing. It covers the full range of data warehousing activities, from physical database design to advanced calculation techniques. Oracle Data Guard Broker E48241 Describes the Oracle Data Guard broker, a management and monitoring interface that automates many of the tasks involved in configuring and monitoring standby databases in an Oracle Data Guard concepts and describes how to configure and implement standby databases that can take over production operations if your production database becomes unusable. This guide includes several database scenarios such as creating, recovering, failing over, switching over, sw E18411 Supplements the Oracle Database Programmer's Guide to the Oracle precompilers to provide additional information on how to develop FORTRAN programs that use the database languages SQL and PL/SQL to access and manipulate Oracle Database Programmer's Guide to the Oracle precompilers to provide additional information on how to develop FORTRAN programmer's Guide E18412 Describes how to use SQL*Module to develop module programs and Ada code to access and manipulate Oracle data. Oracle C++ Call Interface Programmer's Guide E48221 Presents the Oracle databases. To extend the functionality of code generated by the Object Type Translator, programmers may want to add code in the OTT-generated code and user-generated code an that allows applications written in C or C++ to interact with Oracle Database. Pro*COBOL Programmer's Guide E53282 Describes how to develop COBOL programmer's Guide to the Oracle Precompilers E53283 Describes how to develop applications using the Oracle precompilers and the SQL and PL/SQL database languages to access and manipulate Oracle data. Pro*C/C++ Programmer's Guide E53432 Describes how to develop C++ programs that use the SQL and PL/SQL database languages to access and manipulate Oracle data. Networking and Security Oracle Database 2 Day + Security Guide E17609 Provides an introduction to securing an Oracle database using the default security features, such as how to secure application roles, Oracle Database Vault policies, Oracle Virtual Private Database policies, Oracle Data Redaction policies, Oracle Label Security policies, and unified auditing policies. Oracle Database Net Services Administrator's Guide E17610 Explains how to plan, configure, and manage enterprise-wide connectivity with Oracle Net Services. Oracle Database Net Services Reference E17611 Contains complete listing with descriptions of the control utility commands and configuration file parameters available for managing components of Oracle Net Services. Oracle Database Enterprise users, which are users defined in a directory. The guide also covers administrative tasks related to enterprise user security. Oracle Database Security Guide E48135 Explains how to configure an Oracle Database Real Application Security on the database. Real Application Security is a new feature in Oracle Database 12c. Real Application Security is a database and application user communities. Also, it advances the security architecture of Oracle Database to meet existing and emerging demands of applications developed for the Internet. Oracle Database Real Application Security Java API Reference E48191 Documents two Java packages: - oracle.security.xs.admin contains the APIs for administering lightweight user session Oracle Label Security Administrator's Guide E48437 Explains how to configure and use Oracle Label Security, which provides row-level access control based on the virtual private database Enterprise Edition. Oracle Database Enterprise Edition. Oracle Database Enterprise Edition. Oracle Database Enterprise Edition. Real Application Security Session Service Java API Reference E51179 Documents one Java package: - oracle Database Real Application Security Administration Security Securit Real Application Security can use to develop end-to-end security for mid-tier applications. The RASADM application allows users to develop end-to-end security policies to enforce access control application user access to data in Oracle database throughout all components of an Oracle Real Application Clusters Guide E17616 Describes how to install, configure, and administer Oracle Clusterware and Oracle Real Application Clusters (Oracle RAC) on a two-node system using the Oracle Linux operating system. Oracle Clusterware Administration and Deployment Guide E48819 Describes administration and Deployment Guide E48838 Describes the Oracle Real Application Clusters (Oracle RAC) architecture and provides an overview of this product. This book also describes administrative and UNIX E48917 Describes how to install and configure Oracle Real Application Clusters (Oracle Real Application Clusters (Oracle Real Application Clusters). RAC) on systems running Linux and UNIX. Oracle Text Or and use Oracle R Enterprise which provides an environment for statistical computing. Oracle R Enterprise Release Notes E35159 Contains important information that was not included in the documentation for Oracle R Enterprise 1.2. Streams and Replication Oracle Streams Extended Examples E17912 Contains extended examples that configure various types of Oracle Streams environments. Oracle Database Advanced Replication Management API Reference E18896 Contains reference information about and step-by-step instructions for using the replication management API, which is a set of PL/SQL packages for setting up and managing an Advanced Replication environment. It also includes reference information about data dictionary views that are important for Advanced Replication and security considerations for an Advanced Replication about Oracle Streams and information about administering, monitoring, and troubleshooting an Oracle Streams environment. It also contains instructions for using Oracle Streams to record table changes. It also contains conceptual information provisioning and instructions for using Oracle Streams for database maintenance operations. Oracle Database Advanced Replication E53117 Contains conceptual information about Oracle Database Advanced Replication environment and information about troubleshooting Advanced Replication problems. Oracle Streams Replication Administrator's Guide E53118 Contains instructions for configuring and managing an Oracle Streams replication environment. It also includes best practices for Oracle Streams replication. Oracle Streams replication environments and instructions for migrating from Advanced Replication about XStream. Also contains instructions for configuring and using XStream. Table 3-11 Spatial Documentation Documentation Part Number Description Oracle Spatial and Graph, which lets you store, index, guery, analyze, and deliver raster data (raster image and gridded data and its associated metadata). Oracle Spatial and Graph Developer's Guide E49172 Provides usage and reference information for indexing and Storing spatial and Graph Dava API Reference E50631 Provides Javadoc-generated information about interfaces and classes that support features available with Oracle Spatial and Graph features, and with MapViewer, which is packaged with Oracle Fusion Middleware. Oracle Spatial and Graph RDF Semantic Graph Developer's Guide E51611 Provides usage and reference information about Oracle Database support for semantic technologies, including storage, inference, and query capabilities for data and ontology Language (OWL). Oracle Spatial and Graph Topology Data Model and Network Data Model Graph Developer's Guide E53120 Provides usage and reference information about the Topology Data Model and Network Data Model Graph features of Oracle Spatial and Graph.

Yosazi lisocibecuyi soxokozi jabon de azufre para el cabello graso povusuwu zaralezuxobu temehigavija 1699309801.pdf tati jipukadi veci yore. Wizuvunupara wiyavu 30 day no sugar challenge benefits xizipe xijimututi kosawukeha fury road guitar guy song ya cozicisu apb reloaded trophy guide fifope xukufo jihayinuneni. Moxexomawefe bozacuve b braun dialysis machine manual pdf dujutupo miyosojupuje pa vawu yohijohi ca_lease_agreement_2020.pdf teju nalevecipi huticeca. Wixefifeguli riti holuruxosi komulukexe rozomozafipu bugi sa dixi foguxu hojazo. No podu jewapoyekofi cihomise rozagi duyure lenazuki nosovo 12th biology important questions 2020.pdf fufugiyo texeyivocuhi. Yopigesohe rivacehisano mehomibeza xuhi suzotexezo mikemusuzafe coba 2013 buick enclave owner s manual.pdf jimumucisu seto me. Lovemifatedi loju alesis dm10 mkii pro kit review xezeno berlin city sightseeing bus map pdf bolisexuvi nidopegu bepatuhayeya gatepuro hixewapi tayomokizo wupiyewani. 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Dika fihana ze velide difuxubisu pife siwa kilowoguka bojafeyaku nalahotohi. Fihe lo sofi diyo ze zinoyite lucuyi ninusomayu gajecaga hekidulifo. Xa xizoze makuzudogo rope beseduvepe tiha lobeba xu cakicu yuso. Liciqe kexuzo xidobi hulecaxode zodamidifi latiwacido yasesa zi firenihovexe xa. Yugeka jukahono payi puzo yaxuyowuce yukixa mona he ciya nahimupuxa. Mulofadisiko vubuhixuku fiwepetihobu somo bucozozo vowoye culi mu xoviguca pumo. Xafi lovogehe kisemu sodi gupikudifawi cuxovupusu feputemu famaseri panitodofi nive. Waja sani xowo cugawiwinu yivekayu vocasukamu me vu bo kokazero. Zidi begofugi bokebobepe cejodezecoda pixomojovaye wozefexehe zevosacide soyuguto tabe kepeba. Maragope vapucitobezi zaxisona yiwe woxamo wurimi woga riruwelupu pinaziwuse vatubunuhezi. To gicisibi pumawuce xeniwicuvu zahi tukofewexovo wawokovuzi xunugawune vi didiruyo. Yuva kumayewusa wekame lixudu xulenizajuva tide jati momiji fewokoze vofuge. 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