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# Oracle Essentials

*Oracle Database 11g*



**O'REILLY**

*Rick Greenwald,  
Robert Stackowiak & Jonathan Stern*

# Oracle Essentials Oracle Database 11g

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## **Oracle Essentials Oracle Database 11g:**

Oracle Essentials Rick Greenwald, Robert Stackowiak, Jonathan Stern, 2007-11-01 Oracle is an enormous system with myriad technologies options and releases. Most users even experienced developers and database administrators find it difficult to get a handle on the full scope of the Oracle database. And as each new Oracle version is released, users find themselves under increasing pressure to learn about a whole range of new technologies. The latest challenge is Oracle Database 11g. This book distills an enormous amount of information about Oracle into a compact, easy-to-read volume filled with focused text, illustrations, and helpful hints. It contains chapters on Oracle products, options, data structures, and overall architecture for Oracle Database 11g, as well as earlier releases Oracle Database 10g, Oracle9i, and Oracle8i. Installing, running, managing, monitoring, networking, and tuning Oracle, including Enterprise Manager EM and Oracle's self-tuning and management capabilities, and using Oracle security, auditing, and compliance, is a new chapter in this edition. Multiuser, concurrency, data warehouses, distributed databases, online transaction processing (OLTP), high availability, and hardware architectures (e.g., SMP clusters, NUMA, and grid computing). Features beyond the Oracle database, Oracle Application Express, Fusion Middleware, including Oracle Application Server and database SOA support as a Web services provider. The latest Oracle Database 11g features: query result set caching, Automatic Memory Management, the Real Application Testing, Advanced Compression, Total Recall, and Active Data Guard Option. Options changes to the OLAP Option, transparently accessed and managed as materialized views, the Flashback transaction command, transparent data encryption, the Support Workbench, and diagnosability infrastructure, and partitioning enhancements, including interval and new composite types. For new Oracle users, DBAs, developers, and managers, Oracle Essentials provides an invaluable all-in-one introduction to the full range of Oracle features and technologies, including the just-released Oracle Database 11g features. But even if you already have a library full of Oracle documentation, you'll find that this compact book is the one you turn to again and again as your one-stop, truly essential reference. Oracle Essentials gives a clear explanation of the key database concepts and architecture underlying the Oracle database. It's a great reference for anyone doing development or management of Oracle databases.

Andrew Mendelsohn, Senior Vice President, Database Server Technologies, Oracle Corporation      **Oracle Essentials** Rick Greenwald, Robert Stackowiak, Jonathan Stern, O'Reilly & Associates, 2001 The second edition of O'Reilly's bestselling Oracle Essentials has been updated to include the latest Oracle release, Oracle9i. Oracle Essentials distills an enormous amount of information about Oracle's myriad technologies and releases into a compact, easy-to-read volume filled with focused text, illustrations, and helpful hints. Oracle9i promises to be an even more significant upgrade than Oracle8i, offering such major features as Real Application Clusters, flashback queries, Oracle personalization, clickstream intelligence, and Oracle Database Cache and Web Cache. It also promises significant improvements in Oracle's business intelligence, XML integration, high availability, and management capabilities. The book includes overviews of these features, as well as the new

Oracle9I Application Server Oracle9iAS and Oracle9iPortal The book contains chapters on Oracle products options and overall architecture for Oracle9i and other recent releases Installing and running Oracle creating databases configuring Net8 known as Oracle Net in Oracle9i starting up and shutting down Oracle Oracle data structures datatypes and ways of extending datatypes Managing Oracle security the Oracle Enterprise Manager fragmentation and reorganization and backup and recovery Oracle networking monitoring and tuning Multi user concurrency online transaction processing OLTP and high availability Hardware architectures e g SMP MPP NUMA and their impact on Oracle Data warehousing and distributed databases Oracle9i Oracle8i and the Web including the latest Java web and XML technologies interMedia Oracle9i Application Server and Oracle9iPortal For new Oracle users DBAs developers and managers Oracle Essentials is an all in one introduction to the full range of Oracle features and technologies including the just released Oracle9i features But even if you already have a library full of Oracle documentation this compact book is the one you'll turn to again and again as your one stop truly essential reference [Oracle Essentials](#) Rick Greenwald, Robert Stackowiak, Associate Fellow Sustainable Development Programme Royal Institute of International Affairs Jonathan Stern, Jonathan Stern, 2013-09-06 Written by Oracle insiders this indispensable guide distills an enormous amount of information about the Oracle Database into one compact volume Ideal for novice and experienced DBAs developers managers and users Oracle Essentials walks you through technologies and features in Oracle's product line including its architecture data structures networking concurrency and tuning Complete with illustrations and helpful hints this fifth edition provides a valuable one stop overview of Oracle Database 12c including an introduction to Oracle and cloud computing Oracle Essentials provides the conceptual background you need to understand how Oracle truly works Topics include A complete overview of Oracle databases and data stores and Fusion Middleware products and features Core concepts and structures in Oracle's architecture including pluggable databases Oracle objects and the various datatypes Oracle supports System and database management including Oracle Enterprise Manager 12c Security options basic auditing capabilities and options for meeting compliance needs Performance characteristics of disk memory and CPU tuning Basic principles of multiuser concurrency Oracle's online transaction processing OLTP Data warehouses Big Data and Oracle's business intelligence tools Backup and recovery and high availability and failover solutions

[Relational Database Design and Implementation](#) Jan L. Harrington, 2009-09-02 Fully revised updated and expanded Relational Database Design and Implementation Third Edition is the most lucid and effective introduction to the subject available for IT IS professionals interested in honing their skills in database design implementation and administration This book provides the conceptual and practical information necessary to develop a design and management scheme that ensures data accuracy and user satisfaction while optimizing performance regardless of experience level or choice of DBMS The book begins by reviewing basic concepts of databases and database design then briefly reviews the SQL one would use to create databases Topics such as the relational data model normalization data entities and Codd's Rules and why they are important

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### **Achieving Extreme Performance with Oracle Exadata**

Rick Greenwald,Robert Stackowiak,Maqsood Alam,Mans Bhuller,2011-03-08 Maximize Oracle Exadata Capabilities Leverage all of the powerful features available in the Oracle Exadata Database Machine using the proven techniques inside this Oracle Press guide Written by Oracle experts Achieving Extreme Performance with Oracle Exadata shows you how to take full advantage of this complete optimized package of software servers and storage Best practices for enterprise deployments high availability administration backup and recovery data warehousing online transaction processing consolidation and migration are included in this authoritative resource Take advantage of the tightly integrated hardware and software in the Oracle Exadata Database Machine Work with Oracle Exadata software features including Smart Scans Oracle Exadata Hybrid Columnar Compression storage indexes Oracle Exadata Smart Flash Cache and I O Resource Manager Understand Oracle Exadata Database Machine balanced hardware architecture Architect administer and monitor Oracle Exadata Storage Servers Deploy data warehouses on the Oracle Exadata Database Machine Run online transaction processing OLTP workloads on the Oracle Exadata Database Machine Consolidate databases with and migrate databases to the Oracle Exadata Database Machine

**Learn Database Systems with Implementation and Examples** Imed Bouchrika,2014 The main motivation behind writing this book is to teach the basic concepts of database systems through concrete and practical knowledge and examples without too many wordy and useless pages The book is made deliberately concise and short covering the main aspects of databases that you have to master and gain either for industrial or academic purposes The main chapters includes within this book are Introduction to Databases Database Design SQL Structured Query Language SQL Structured Query Language SQL Transactions Procedures Triggers Object Relational Databases Databases Java Programming Solutions Answers The book website can be accessed at <http://www.LearnDB.com>

### Oracle Database 11g Release 2 High Availability: Maximize Your Availability with Grid Infrastructure, RAC and Data Guard

Scott Jesse,Bill Burton,Bryan Vongray,2011-04-22 Leverage Oracle

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Get a Solid Foundation in Oracle Database Technology Master Oracle Database 11g fundamentals quickly and easily Using self paced tutorials this book covers core database essentials the role of the administrator high availability and large database features Oracle Database 11g A Beginner's Guide walks you step by step through database setup administration programming backup and recovery In depth introductions to SQL and PL SQL are included Designed for easy learning this exclusive Oracle Press guide offers Core Concepts Oracle Database 11g topics presented in logically organized chapters Critical Skills Lists of specific skills covered in each chapter Projects Practical exercises that show how to apply the critical skills learned in each chapter Progress Checks Quick self assessment sections to check your progress Notes Extra information related to the topic being covered Mastery Checks Chapter ending quizzes to test your knowledge **Oracle Database 11g DBA Handbook** Bob Bryla, Kevin Loney, 2007-12-27

The Essential Resource for Oracle DBAs Fully Updated and Expanded Manage a flexible highly available Oracle database with help from the expert information contained in this exclusive Oracle Press guide Fully revised to cover every new feature and utility Oracle Database 11g DBA Handbook shows how to perform a new installation upgrade from previous versions configure hardware and software for maximum efficiency and employ bulletproof security You will learn to automate the backup and recovery process provide transparent failover capability audit and tune performance and distribute your enterprise databases with Oracle Net Plan and deploy permanent temporary and bigfile tablespaces Optimize disk allocation CPU usage I/O throughput and SQL queries Develop powerful database management applications Guard against human errors using Oracle Flashback and Oracle Automatic Undo Management Diagnose and tune system performance using Oracle Automatic Workload Repository and SQL Tuning Sets Implement robust security using authentication authorization fine grained auditing and fine grained access control Maintain high availability using Oracle Real Application Clusters and Oracle Active Data Guard Respond more efficiently to failure

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Big Data Appliance Oracle Big Data Connectors Oracle NoSQL Database Oracle Endeca Oracle Advanced Analytics and Oracle's open source R offerings Page 4 of cover *Oracle Database 11g Building Oracle XML DB Applications* Jinyu Wang, 2011-07-01 Master the XML Programming Features in Oracle Database 11g Develop, debug and administer data backed XML applications using the expert instruction and best practices in this Oracle Press guide Oracle Database 11g Building Oracle XML DB Applications discusses the latest development tools, technologies and components. Find out how to set up Oracle XML Database Oracle XML DB, build XML applications in Oracle JDeveloper 11g, work with XSLT stylesheets and incorporate full text search. Troubleshooting, performance tuning and security are also covered in this comprehensive resource. Create, store and query XML types using Oracle XML DB, Load XML documents into relational tables and define SQL views. Parse and validate schema with Oracle XDK for Java and PL/SQL packages. Merge documents, generate reports and transform data using XSLT. Construct applications from Oracle XML DB Web services. Use Oracle JDeveloper 11g to design and deploy XML applications. Integrate Oracle Text and Oracle Secure Enterprise Search features. Streamline the development process using Oracle Application Express. *Oracle Database 11g Oracle Real Application Clusters Handbook, 2nd Edition* K Gopalakrishnan, 2011-08-10 Master Oracle Real Application Clusters. Maintain a dynamic enterprise computing infrastructure with expert instruction from an Oracle ACE. Oracle Database 11g Oracle Real Application Clusters Handbook Second Edition has been fully revised and updated to cover the latest tools and features. Find out how to prepare your hardware, deploy Oracle Real Application Clusters, optimize data integrity and integrate seamless failover protection. Troubleshooting, performance tuning and application development are also discussed in this comprehensive Oracle Press guide. Install and configure Oracle Real Application Clusters. Configure and manage diskgroups using Oracle Automatic Storage Management. Work with services, voting disks and Oracle Clusterware Repository. Look under the hood of the Cache Fusion and Global Resource Directory operations in Oracle Real Applications Clusters. Explore the internal workings of backup and recovery in Oracle Real Application Clusters. Employ workload balancing and the Transparent Application Failover feature of an Oracle database. Get complete coverage of Stretch Clusters, also known as Metro Clusters. Troubleshoot Oracle Clusterware using the most advanced diagnostics available. Develop custom Oracle Real Application Clusters applications. *Oracle Database 11g The Complete Reference* Kevin Loney, 2008-10-15 The Definitive Guide to Oracle Database 11g. Get full details on the powerful features of Oracle Database 11g from this thoroughly updated Oracle Press guide. Oracle Database 11g The Complete Reference explains how to use all the new features and tools, execute powerful SQL queries, construct PL/SQL and SQL\*Plus statements and work with large objects and object relational databases. Learn how to implement the latest security measures, tune database performance and deploy grid computing techniques. An invaluable cross-referenced appendix containing Oracle commands, keywords, features and functions is also included. Install Oracle Database 11g or upgrade from an earlier version. Create database tables, sequences, indexes, views and user accounts.

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**Oracle Database 11g & MySQL 5.6 Developer Handbook** Michael McLaughlin,2011-09-30 Master Application Development in a Mixed Platform Environment Build powerful database applications in a mixed environment using the detailed information in this Oracle Press guide Oracle Database 11g MySQL 5 6 Developer Handbook lays out programming strategies and best practices for seamlessly operating between the two platforms Find out how to migrate databases port SQL dialects work with Oracle MySQL databases and configure effective queries Security monitoring and tuning techniques are also covered in this comprehensive volume Understand Oracle Database 11g and MySQL 5 6 architecture Convert databases between platforms and ensure transactional integrity Create tables sequences indexes views and user accounts Build and debug PL SQL SQL Plus SQL PSM and MySQL Monitor scripts Execute complex queries and handle numeric and date mathematics Merge data from source tables and set up virtual directories

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- Chapter 3: Oracle Essentials Oracle Database 11g in Everyday Life
- Chapter 4: Oracle Essentials Oracle Database 11g in Specific Contexts
- Chapter 5: Conclusion

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6. In chapter 5, the author will draw a conclusion about Oracle Essentials Oracle Database 11g. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Oracle Essentials Oracle Database 11g.

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