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About Oracle Database Architecture  
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# Oracle Essentials

*Oracle Database 11g*



**O'REILLY**

*Rick Greenwald,  
Robert Stackowiak & Jonathan Stern*

# Oracle Essentials Oracle Database 11g

**Rachel S Tattersall**

## **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

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**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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including Apache Hadoop Oracle 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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