

# **Discover the Exciting New Features of Oracle Database 11g: A Complete Guide from Oracle Press**

Are you a technology enthusiast or a database professional eager to explore the latest innovations in Oracle Database? Look no further! Oracle Database 11g brings a plethora of new features that will revolutionize your database management experience. In this comprehensive guide by Oracle Press, we will walk you through the exciting enhancements and capabilities of Oracle Database 11g, enabling you to unlock the full potential of this powerful tool.

## **The Evolution of Oracle Database**

Over the years, Oracle has continuously strived to provide cutting-edge solutions to meet the evolving needs of businesses worldwide. With the release of Oracle Database 11g, they have once again raised the bar. This version introduces several groundbreaking features and improvements, making it a must-have for organizations seeking enhanced performance, scalability, and security.

## **Powerful Partitioning for Enhanced Performance**

One of the standout features of Oracle Database 11g is its powerful partitioning capabilities. Partitioning allows you to divide your data into smaller, more manageable pieces, improving query performance and simplifying data maintenance tasks. With this release, Oracle introduces Interval Partitioning, which automatically creates new partitions based on time intervals, ensuring efficient data management and storage.

**Oracle Database 11g New Features (Oracle Press)**

by Robert G. Freeman(1st Edition, Kindle Edition)



★★★★☆ 4.7 out of 5  
Language : English  
File size : 9582 KB  
Text-to-Speech : Enabled  
Screen Reader : Supported  
Enhanced typesetting : Enabled  
Print length : 362 pages



## Real-Time Application Testing with Database Replay

Database Replay is an innovative feature introduced in Oracle Database 11g that enables you to test your applications and workloads in a realistic and controlled environment. By capturing and replaying real production workloads, you can evaluate your system's performance before making any changes, ensuring a smooth transition and minimizing risks. This feature offers tremendous value in mission-critical scenarios where even the slightest performance degradation can have severe consequences.

## Intelligent Query Optimization

Oracle Database 11g takes query optimization to a whole new level with the of the Automatic SQL Tuning feature. With this intelligent capability, Oracle automatically identifies poorly performing SQL statements and suggests alternative execution plans, optimizing query performance without any manual intervention. This saves precious time and resources, allowing DBAs to focus on more critical tasks.

## Building Secure and Compliant Databases

Security is a top concern for any organization, and Oracle Database 11g provides robust features to address these concerns. One such feature is the Oracle Advanced Security option, which helps safeguard your data by providing transparent data encryption and strong authentication mechanisms. Additionally, Oracle Database Vault offers enhanced security controls, allowing you to define fine-grained access policies, further securing your valuable data.

## **Simplified Database Management with Oracle Enterprise Manager**

Oracle Enterprise Manager is a powerful tool that simplifies the administration and monitoring of Oracle Databases. In Oracle Database 11g, Oracle enhances Enterprise Manager with new features such as Database Configuration Management and SQL Performance Analyzer. These additions provide greater control and visibility over your database operations, enabling you to proactively manage performance and quickly resolve any bottlenecks.

## **Advanced Data Compression Techniques**

Storage requirements can be a significant concern for organizations, especially when dealing with increasingly large data volumes. Oracle Database 11g tackles this challenge with various advanced data compression techniques. The new Hybrid Columnar Compression technique offers significant compression ratios for data warehouse environments, reducing storage costs and improving query performance. Additionally, Oracle introduces the SecureFiles technology, providing a superior alternative to traditional LOB storage. SecureFiles leverages compression and deduplication, resulting in substantial space savings and faster access to large-scale data.

Oracle Database 11g is a game-changer for database management, packed with exciting new features and enhancements. Whether you are a seasoned DBA or a technology enthusiast looking to expand your knowledge, Oracle Press'

comprehensive guide is your gateway to mastering Oracle Database 11g. With Oracle's relentless commitment to innovation, you can be confident that this release will empower you to achieve new heights of efficiency, security, and performance in your database operations.

So, why wait? Dive into the world of Oracle Database 11g and unlock its full potential today!



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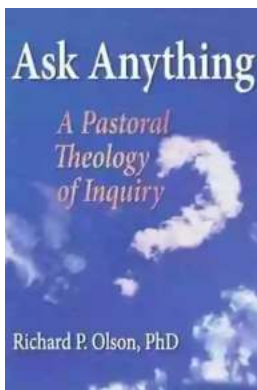
FOREWORD by Tom Kyte

Your Must-Have Guide to Everything New in Oracle Database 11g

Realize the full potential of Oracle Database 11g with help from the experts. Written by Robert G. Freeman, and with insightful commentary throughout from Arup Nanda, this Oracle Press guide offers full details on the architectural changes, database administration upgrades, availability and recovery revisions, security enhancements, and programming innovations. Every new and updated feature is covered and presented with screenshots, code samples, tables, and

charts. Find out how to take full advantage of all the new and improved capabilities of Oracle Database 11g, including:

- New Oracle Automatic Storage Management features, such as Fast Disk Resync, Compatibility Attributes, Preferred Mirror Read, and Rolling Upgrade components
- Improved Automated Memory Management capabilities
- New database design features, such as virtual columns, tablespace encryption, and true table-level data compression
- New Database Advisors for data recovery and repair, partitioning, and streams performance
- New tuning features, such as Automatic SQL Tuning and SQL Performance Analyzer
- Enhancements to Oracle RMAN, including active database duplication and UNDO backup optimization
- Improved auditing and security capabilities
- Advanced BI, data warehousing, and partitioning features
- New SQL and PL/SQL enhancements



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