BLACKBIRD FOR TRAINING

Oracle Exadata: Mastering Database Performance

5 – 9 July 2027
Lyon (France)



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Introduction

In today's data-centric world, Oracle Exadata represents the pinnacle of high-performance database infrastructure, empowering organizations to operate mission-critical systems with exceptional speed, reliability, and scalability.

This intensive one-week training program provides participants with a deep and practical understanding of Exadata architecture, setup, management, and performance optimization. It focuses on real-world applications — from system configuration and workload optimization to database consolidation and troubleshooting. The course also covers Exadata's integration with modern cloud environments, ensuring participants are prepared for both on-premises and cloud-based deployments.

This program is ideal for database administrators, system engineers, and IT professionals seeking to master Exadata environments and achieve optimal database performance through industry-proven techniques and best practices.

Course Objectives

By the end of this course, participants will be able to:

- Understand the architecture and key components of Oracle Exadata.
- Configure and manage Exadata storage and database servers effectively.
- Optimize performance with advanced features such as Smart Scan and compression.
- Implement high-availability and disaster-recovery mechanisms.
- Monitor, analyze, and troubleshoot system performance using specialized tools.
- Integrate Exadata systems with enterprise cloud environments.
- Apply best practices for database consolidation, scalability, and workload distribution.

Course Outlines

Day 1: Understanding Oracle Exadata Architecture

- Overview of Exadata's role in enterprise data ecosystems.
- Core system components: database servers, storage servers, and network architecture.
- Smart Scan concept and offloading mechanism.
- Deployment models: on-premises, hybrid, and cloud-based.
- Key administration tools and their usage.



Day 2: System Configuration and Management

- Installing and configuring Exadata systems.
- Setting up grid infrastructure and cluster management.
- Managing storage cells and data disks efficiently.
- Configuring automatic storage management for optimized performance.
- Software updates and maintenance procedures.
- Performing backups and restorations for Exadata environments.

Day 3: Performance Optimization and Advanced Features

- Deep dive into Smart Scan operations and tuning methods.
- Leveraging storage indexes and data compression for performance gains.
- Performance optimization for transactional and analytical workloads.
- Resource management and prioritization of workloads.
- Monitoring performance metrics and analyzing bottlenecks.
- Troubleshooting real-world performance challenges.

Day 4: High Availability, Security, and Issue Resolution

- Implementing high availability with clustered environments.
- Managing disaster recovery strategies effectively.
- Configuring security controls and user access management.
- Common system issues and diagnostic methods.
- Hands-on troubleshooting using command-line tools.
- Backup, restore, and recovery simulations.

Day 5: Cloud Integration and Automation

- Managing Exadata systems within enterprise cloud infrastructure.
- Cloud administration through centralized dashboards.
- Automating operational tasks using scripts and workflow tools.
- Techniques for database consolidation and resource scaling.
- Best practices for lifecycle management and capacity planning.
- Final workshop: designing a high-performance Exadata architecture.

Why Attend This Course: Wins & Losses!

- Gain deep technical and strategic knowledge of Oracle Exadata.
- Learn proven performance tuning and workload optimization methods.
- Master business continuity through high availability and recovery strategies.
- Understand hybrid and cloud-based deployment models.
- Acquire hands-on experience with real-world management tools.
- Strengthen professional expertise and credibility with an accredited certificate.
- Enhance organizational efficiency through optimized database performance.



Conclusion

This one-week Oracle Exadata program combines theory and practice to deliver a comprehensive mastery of Exadata infrastructure and operational excellence.

By the end of the training, participants will have the knowledge and confidence to manage, optimize, and troubleshoot complex Exadata environments — ensuring superior performance, scalability, and reliability for enterprise-level database systems.

