ORACLE UNIVERSITY

ORACLE EXADATA DATABASE MACHINE TRAINING

Oracle University provides premier training for Oracle Exadata – our complete, optimized, and integrated family of software, server, and storage products. These systems deliver extreme performance and scalability for all your database applications. Learn from the experts at Oracle University and get the know-how to increase the performance and speed up your database applications by a factor of 10 or more.

Recommended Exadata Learning Path

We recommend starting with the Oracle Database: Introduction to SQL class and then taking several of our database administrator courses to build the foundation in database before attending the Exadata and Database Machine Administration course. For details on the Exadata learning path, visit oracle.com/education/exadata.

Featured Courses

Oracle Database: Introduction to SQL (5 days) trains you on the basic concepts of relational databases – how to write subqueries, combine multiple queries into a single query using SET operators, report aggregated data using group functions, and control privileges at the object and system level. You will learn to create indexes and constraints, and alter existing schema objects. This course is a combination of Oracle Database: SQL Fundamentals I and Oracle Database: SQL Fundamentals II courses.

Oracle Database 11g: Administration Workshop I (5 days) is designed to provide you a firm foundation in basic administration of Oracle Database 11g, specifically installing and maintaining an operational database. You learn how to properly manage the various structures effectively and efficiently including performance monitoring, database security, user management, and backup/recovery techniques.

Oracle Database 11g: Administration Workshop II (5 days) takes the database administrator beyond the basic tasks covered in Workshop I. You will gain a much deeper understanding of possibly the most important job of a DBA – backup and recovery. You will learn how to define and test your own backup and recovery scenarios, how to manage memory effectively, and how to perform performance evaluation and tuning tasks.

Oracle Database 11g: RAC and Grid Infrastructure Administration Accelerated (5 days) is an intensive course that focuses on Oracle Grid Infrastructure products, including: Oracle Automatic Storage Manager (ASM), ASM Cluster File System (ACFS), and Oracle Clusterware. You will learn to administer ASM, ACFS, the Oracle Clusterware and storage products using both command line utilities and graphical tools. Plus, you'll learn about RAC database administration in the Oracle Grid Infrastructure environment. Through hands-on labs, you will administer cluster databases using Enterprise Manager and command-line utilities like SRVCTL, CRSCTL, and SQL*Plus. This is an accelerated course, covering seven days’ of content in only five days.

Exadata and Database Machine Administration (2-day Seminar or 3-day Workshop) is presented in two parts. The first section introduces students to Oracle Exadata Storage Server
Version 2, covers the architecture and key capabilities, and shows students how to configure, monitor and optimize Exadata. The second section introduces students to the Oracle Exadata Database Machine (DBM), specifically the installation and configuration process. You also learn how to maintain, monitor, and optimize DBM after initial configuration.

Monitor Exadata Database Machine Seminar (1 day) In this seminar, students will learn about the monitoring infrastructure components inside Exadata Database Machine and the best practices for how and what to monitor.

Oracle Database 11g: Administer a Data Warehouse (4 days) educates you about Oracle’s Database partitioning architecture and the benefits of partitioning. You will use parallel operations to reduce response time for data-intensive operations. During hands-on labs, you will extract, transform, and load data into an Oracle database warehouse – and use materialized views to improve the data warehouse performance. You will learn how a query rewrite can improve a query's performance, and use the SQL Access Advisor to optimize the entire workload.

Implement Oracle Data Warehousing Best Practices (1 day) covers the best practices for implementing an enterprise data warehouse. You will learn to identify the hardware elements that influence the throughput and learn how to build a balanced hardware configuration. We will review the two classic models, third normal form (3NF) and star schema, and learn how to optimize both. You’ll learn how to convert the logical model into a suitable physical model, how to load data efficiently into the data warehouse, how to use partition exchange load and data compression during the ETL process to improve performance. Finally, we’ll cover the best ways to manage the system workload and resources, ensure an Enterprise Data Warehouse can run at optimal performance, and then explain how parallel execution enables them to fully utilize the system.

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Hardware and Software, Engineered to Work Together