LEARNOMATE TECHNOLOGIES

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A Steps towards the bright future

Learnomate Technologies is the Information technology company which provide training on different IT Technologies.
Out of that **Oracle Exadata** is the one of the fastest growing technology.

Oracle Exadata training provides a foundational and in-depth understanding of Oracle's high-performance database platform designed for running Oracle databases.

Exadata is a combination of hardware and software engineered to deliver optimized performance, scalability, and reliability for Oracle database environments. This training equips IT professionals with the knowledge and skills to configure, manage, and optimize Exadata systems for enterprise applications.

ORACLE®

EXADATA

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SYLLABUS KEY POINTS

Module 1: Exadata Machine Overview & Architecture

- General Configuration
- Classic Database I/O and SQL Processing Model
- Exadata Smart Scan Model
- Exadata Smart Storage Capabilities
- Exadata Hybrid Columnar Compression Data Organization
- Exadata Smart Flash Cache Intelligent Caching
- Storage Index with Partitions
- Database File System
- I/O Resource Management: Overview

Module 2: Exadata Storage Server Configuration

- Exadata Storage Server Administration: Overview
- Testing Storage Server Performance Using CALIBRATE
- Configuring the Exadata Cell Server Software
- Creating Flash-Based Grid Disks
- Creating Smart Flash Log
- Configuring ASM and Database Instances to Access Exadata Cells
- Exadata Storage Security: Overview
- Exadata Storage Security Implementation

Module 3: Resource Management

- I/O Resource Management: Overview
- IORM Architecture
- Getting Started with IORM
- Enabling Inter-database Resource Management
- Setting Database I/O Utilization Limits
- Inter-database Plans and Database Roles
- Using Database I/O Metrics
- IORM and Exadata Storage Server Flash Memory

Module 4: Optimizing Database Performance

- Optimizing Performance
- Flash Memory Usage
- Compression Usage
- ASM Allocation Unit Size
- Minimum Extent Size
- Optimizing Database Performance with Exadata

Module 5: Smart Scan Overview

- Exadata Smart Scan: Overview
- Smart Scan Requirements
- Monitoring Smart Scan in SQL Execution Plans
- Smart Scan Join Processing with Bloom Filters
- Other Situations Affecting Smart Scan
- Exadata Storage Server Statistics: Overview
- Other Situations Affecting Smart Scan
- Exadata Storage Server Wait Events: Overview
- Using Smart Scan

Module 6: Migrating Database to ED

- Migration Best Practices: Overview
- Performing Capacity Planning Overview
- Database Machine Migration Considerations
- Choosing the Right Migration Path
- Logical Migration Approaches
- Physical Migration Approaches
- Post-Migration Best Practices
- Migrating to Databases Machine Using Transportable

Module 7: Monitoring Exadata Storage Server

- Exadata Metrics and Alerts Architecture
- Monitoring Exadata Storage Server with Metrics
- Monitoring Exadata Storage Server with Alerts
- Monitoring Exadata with Active Requests
- Monitoring Exadata Storage Server with Grid Control: Overview
- Monitoring Hardware Failure and Sensor State

Module 8: Monitoring Exadata Storage Server

- Monitoring Database Servers: Overview
- Monitoring Hardware
- Monitoring the Operating System
- Monitoring Oracle Grid Infrastructure
- Monitoring Oracle Database
- Monitoring Oracle Management Agent

Module 9: Monitoring InfiniBand

- InfiniBand Network Monitoring: Overview
- Manually Monitoring the InfiniBand Switches
- Monitoring the InfiniBand Switches with Grid Control
- Monitoring the InfiniBand Switch Ports
- Monitoring the InfiniBand Ports on Database Machine Servers
- Monitoring the InfiniBand Fabric: Subnet Manager Master Location
- Monitoring the InfiniBand Fabric: Network Topology and Link Status

Module 10: Important Maintenance Tasks

- Database Machine Maintenance: Overview
- Powering Database Machine Off and On
- Safely Shutting Down a Single Exadata Storage Server
- Moving All Disks from One Cell to Another
- Using the Exadata Cell Software Rescue Procedure

Module 11: Other Monitoring Components- Exachk

- Exachk: Overview
- Running Exachk
- Exachk Output
- DiagTools: Overview
- Using ADRCI on Exadata Storage Servers
- Image info: Overview
- Image history: Overview
- OSWatcher: Overview

Module 12: Backup & Recovery

- Using RMAN with Database Machine
- General Recommendations for RMAN
- Disk-Based Backup Strategy
- Disk-Based Backup Recommendations
- Tape-Based Backup Strategy
- Backup and Recovery of Database Machine Software

Module 13: Exadata Patching Overview and Practice Cell Cli on Cracked Machine (Bonus)

- Overview of Exadata Patching
- Practice Cell Cli on Cracked Machine (Bonus)
- Cracked VM provided for practice (supports 70% of cell cli commands)
- Cell CLI Command Cheat Sheet provided for practice

CONTACT DETAILS

If you required any further information, please fill free to contact us.

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