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Sign Up

Oracle Database Administration Training

3 days (21 hours)

Overview

Our Oracle 26ai Administration training course will enable you to master all the tasks required to manage and deploy Oracle Database. Whether you need a flexible and reliable database or more advanced solutions such as cloud computing, Oracle Database is the ideal tool.

Our program covers all aspects of administering an Oracle Database solution, including installation, configuration, maintenance, and troubleshooting. You'll learn how to set up Oracle 26ai environments, manage users and permissions, optimize performance, and ensure system security and reliability.

One chapter is dedicated to Automatic Storage Management; mastering this feature will greatly simplify your database file management tasks.

Like all our training courses, this one will introduce you to **the latest stable version** of the technology and its new features.

Objectives

- Understand the architecture of Oracle Database
- Deploy and maintain an Oracle database
- Use ASM features
- Know how to respond in the event of a disaster

Target Audience

- **Data engineers**
- Cloud architects

- Network administrators

Prerequisites

- Database knowledge
- Familiarity with SQL

Technical Prerequisites

- Oracle database must be installed (Docker Image, VirtualBox, VMLinux, RPM)
- 2 GB of RAM
- 10 GB of free disk space

Curriculum for our Oracle 26ai Administration Training Course

[Day 1 - Morning]

Introduction to Oracle Database 26ai

- History and Release Lifecycle of Oracle Database
- Availability and Release Context for Version 26ai
- Overview of the Exadata architecture
- Concepts of the private cloud and Oracle Database’s positioning
- Overview of New Features in 26ai
- Hands-on Workshop: Setting Up a Test Environment / Practical Exercise.

[Day 1 - Afternoon]

Major Enhancements in Version 26ai

- High Availability Enhancements: RAC, DataGuard
- New Security Features: TDE encryption, extended access controls
- Storage enhancements: ASM, partitioning, HCC
- Performance improvements: In-Memory, Query Optimizer, automatic statistics
- Introduction to Autonomous Database and integration with Oracle Cloud
- Hands-on workshop: Testing the new performance and availability options.

Installation and Upgrade

- New upgrade paths to 26ai
- Installation Methods and Related Tools
- Upward Compatibility and Migration Options

- Patch and fix management
- Best Practices for Production Deployment

[Day 2 - Morning]

New Features in 26ai

- Overview of New Settings and Default Behaviors
- Introduction of the Integrated Blockchain Module
- True Cache Feature: Principles, Restrictions, and Activation
- Impact on Transaction Management and Consistency
- New Features in the Query Optimizer
- Hands-on Workshop: Blockchain Operations.

[Day 2 - Afternoon] Multitenant

Environment

- Concepts of CDB and PDB
- Development and Management of Shared Resources
- Operations on pluggable databases (creation, cloning, backup)
- Advantages and Limitations of the Multitenant Approach
- Specific improvements in version 26ai
- Hands-on workshop: Multitenant operations.

Modernization and automation

- Introduction to Autonomous Databases
- New Monitoring Tools and Automatic Tuning
- Data Lifecycle Optimization
- Hybrid Workload Management and Integrated AI
- Security, Governance, and Automated Auditing
- Hands-on Workshop: Implementing a 26ai Autonomous Database.

[Day 3 - Morning]

Managing and Manipulating JSON Data

- Introduction to Native JSON Management in Oracle 26ai
- Exploring the Concept of Relational Duality View
- Interoperability between relational structures and JSON
- JSON Indexing and Optimization Strategies
- New Storage Types and Compression
- Hands-on Workshop: Advanced JSON Manipulation

[Day 3 - Afternoon]

AI Vector Search and Semantic Search

- Introduction to AI Vector Search
- Understanding Vectorized Data Types
- New Similarity Search Features
- Implementing a Vector Index
- Exploring the Strengths and Limitations of the Solution
- Hands-on Workshop: Creating a Vector Search Using Sample Data

Artificial Intelligence and Natural Language

- Introduction to Oracle 26ai’s built-in AI features
- Understanding natural language and its integration with SQL
- Using intelligent assistants and LLM APIs
- Use cases involving predictive analytics and conversational queries
- Assessment of learning outcomes with a final multiple-choice quiz.

Target Audience

This training is intended for both individuals and companies—large and small—that wish to train their teams in new, advanced IT technologies or to acquire specific business knowledge or modern methodologies.

Entry-Level Assessment

The pre-training assessment complies with Qualiopi quality standards. Upon final registration, the learner receives a self-assessment questionnaire that allows us to evaluate their estimated proficiency level across various types of technologies, as well as their expectations and personal goals for the upcoming training, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could pose challenges for monitoring and ensuring the smooth running of the training session.

Teaching Methods

Hands-On Training: 60% Practical, 40% Theoretical. Training materials distributed in digital format to all participants.

Organization

The course alternates between theoretical input from the instructor—supported by examples and reflection sessions—and group work.

Assessment

At the end of the session, a multiple-choice quiz is administered to verify that participants have successfully acquired the skills.

Certification

A certificate will be issued to each trainee who has completed the entire training program.

Training organization registered under number 11 75 54743 75. This registration does not constitute state accreditation.
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