



*Training Course:
Mastering Advanced Database Management for
Senior Specialists*

*21 - 25 February 2027
Cairo (Egypt)*

Training Course: Mastering Advanced Database Management for Senior Specialists

Training Course code: SC235575 From: 21 - 25 February 2027 Venue: Cairo (Egypt) - Training Course Fees: 4100 € Euro

Introduction

As data continues to be a vital asset for organizations, the role of advanced database management becomes increasingly critical in supporting decision-making, optimizing performance, and ensuring the security of sensitive information. The "[Mastering Advanced Database Management for Senior Specialists](#)" program is designed to provide experienced database professionals with the latest tools, techniques, and strategies required to manage complex databases at a senior level.

This program will cover advanced topics such as database architecture, performance tuning, high-availability solutions, security management, and database optimization for large-scale systems. Participants will also explore the latest trends in database technologies, including cloud databases, big data management, and database automation, ensuring they stay ahead in the ever-evolving database management landscape.

Objectives

- Master advanced techniques in database management, architecture, and performance optimization.
- Implement high-availability and disaster recovery solutions to ensure data integrity.
- Optimize databases for scalability and performance in large-scale environments.
- Explore database security best practices and data protection strategies.
- Understand the latest trends in cloud database management and big data solutions.
- Develop the ability to automate routine database management tasks using advanced tools.

Target Audience

- Senior database administrators DBAs and database specialists.
- IT managers and systems architects responsible for large database systems.
- Data scientists and analysts working with complex databases.
- Senior IT professionals involved in database management and security.
- Technical consultants specializing in database architecture and optimization.

Outlines

Day 1:

Advanced Database Architecture and Design

- Principles of advanced database architecture.
- Designing databases for scalability and performance.
- Managing complex relationships and normalization techniques.
- Case study: Optimizing database architecture for enterprise systems.

Day 2:

Performance Tuning and Optimization

- Database performance tuning: Best practices.
- Query optimization and indexing strategies.
- Managing database workloads and improving efficiency.
- Hands-on session: Optimizing queries for better performance.

Day 3:

High-Availability and Disaster Recovery

- Designing databases for high availability and failover.
- Implementing backup, replication, and recovery strategies.
- Managing disaster recovery and ensuring data integrity.
- Workshop: Setting up a high-availability database system.

Day 4:

Security Management in Databases

- Best practices for securing databases and protecting sensitive data.
- Implementing encryption, access control, and auditing.
- Managing vulnerabilities and database patching.
- Case study: Security management in a highly regulated industry.

Day 5:

Cloud Databases, Big Data, and Automation

- Exploring cloud database solutions and their advantages.
- Managing large datasets and big data technologies.
- Automating database management tasks using advanced tools.
- Future trends in database management: AI and machine learning in databases.

Registration form on the Training Course: Mastering Advanced Database Management for Senior Specialists

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