

Mastering Database Replication: Strategies and Implementation

IT & IT Engineering
Rome (Italy)
14 - 18 Jul 2025

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A large, detailed image of chess pieces on a checkered board. In the foreground, a gold king piece stands prominently on a light square. To its left, a silver pawn is on a dark square. Further back, another silver pawn is visible. The background features concentric circles radiating from behind the king piece, creating a sense of depth and focus.

Mastering Database Replication: Strategies and Implementation

Ref: 321447_134931 **Date:** 14 - 18 Jul 2025 **Location:** Rome (Italy) **Fees:** 4200 **Euro**

Course Description

This comprehensive 5-day course on Database Replication equips participants with the knowledge and skills to design, implement, and manage robust replication solutions. Covering various replication types, technologies, and best practices, the course provides hands-on experience in setting up and maintaining replicated environments across different database platforms.

Learning Objectives

- Understand the fundamental concepts and benefits of database replication
- Design and implement various replication topologies for different scenarios
- Configure and manage replication processes across multiple database platforms
- Troubleshoot common replication issues and optimize performance
- Develop strategies for disaster recovery and high availability using replication
- Implement best practices for security and data integrity in replicated environments

Course Modules

Day 1: Introduction to Database Replication

- Replication concepts and terminology
- Types of replication: snapshot, transactional, and merge
- Replication topologies and architectures
- Benefits and use cases for database replication

Day 2: Implementing Replication in SQL Server

- Setting up publishers, distributors, and subscribers
- Configuring snapshot replication
- Implementing transactional replication
- Managing merge replication
- Monitoring and maintaining SQL Server replication

Day 3: Oracle Database Replication Techniques

- Oracle GoldenGate architecture and components
- Configuring Oracle Data Guard
- Implementing Oracle Streams replication
- Advanced Oracle replication scenarios

A graphic of a chessboard with several chess pieces (king, queen, rook, knight, and pawns) in gold and silver. The text 'UK Training PARTNER' is overlaid on the board.

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Day 4: Cross-Platform and Cloud Replication Solutions

- Heterogeneous database replication strategies
- Cloud-based replication services AWS DMS, Azure Data Sync
- Implementing replication in distributed environments
- Real-time data integration and CDC techniques

Day 5: Replication Best Practices and Advanced Topics

- Performance tuning and optimization for replicated environments
- Security considerations in database replication
- Disaster recovery and high availability planning
- Troubleshooting complex replication scenarios
- Future trends in database replication technologies

Practical Wins for Participants

- Ability to design and implement robust replication solutions for various business needs
- Skills to optimize and troubleshoot replication processes, ensuring data consistency and availability
- Knowledge to leverage replication for effective disaster recovery and high availability strategies
- Expertise in cross-platform and cloud-based replication techniques for modern data environments

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