

SQL Server Database: Comprehensive 5-Day Training Course

6 – 10 September 2027
London (UK)

UK Training

PARTNER



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Why This Course

Effective database management is critical for organizations to store, retrieve, and secure data efficiently. This intensive 5-day SQL Server course equips participants with the knowledge and practical skills to design, manage, and optimize SQL Server databases. Combining theory with hands-on exercises, the program ensures participants can confidently handle real-world database challenges.

What You'll Learn and Practice

By attending this course, you will be able to:

- Design and implement efficient SQL Server databases from the ground up.
- Write complex queries to manipulate and retrieve data effectively.
- Optimize database performance using indexing and query tuning techniques.
- Implement robust security measures and manage user permissions.
- Perform backup, restoration, and routine database maintenance tasks.

The Program Flow

Day 1: Introduction to SQL Server

- SQL Server architecture and key components
- Installing and configuring SQL Server
- Creating and managing databases
- Basic T-SQL commands

Day 2: Database Design and Normalization

- Relational database concepts
- Entity-Relationship ER diagrams
- Normalization techniques
- Creating tables and defining relationships

A graphic of a chessboard with several pawns and a king piece. The king piece is gold and stands prominently on the right side of the board. The pawns are silver and black. The board is white and black squares, with a subtle grid pattern in the background.

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Day 3: Advanced Querying and Data Manipulation

- Complex SELECT statements
- Joins, subqueries, and nested queries
- Aggregate functions and grouping
- Inserting, updating, and deleting data

Day 4: Performance Optimization and Indexing

- Understanding query execution plans
- Index types and strategies
- Query optimization techniques
- Using statistics and the query optimizer effectively

Day 5: Security, Maintenance, and Best Practices

- Authentication and authorization strategies
- Backup and recovery planning
- Database maintenance tasks
- Best practices for SQL Server management

Individual Impact

Participants will leave this program with:

- The ability to design and implement fully functional SQL Server databases.
- Skills to optimize slow-running queries and improve application performance.
- Knowledge to set up secure database environments with appropriate user permissions.
- Competence in developing and executing comprehensive backup and recovery strategies.

Organizational Impact

Organizations will benefit from:

- Well-structured and optimized SQL Server databases that support business applications.
- Improved data security and compliance through proper access control.
- Enhanced system performance and reduced downtime.
- Efficient database maintenance and recovery processes.

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A graphic illustration of a chessboard with several chess pieces. In the foreground, there is a gold king piece, a silver pawn, and a silver knight. In the background, there is a gold pawn. The board is checkered, and there are concentric circles in the background.

Training Methodology

- Interactive lectures and hands-on exercises
- Real-world case studies and scenario-based learning
- Group discussions and collaborative problem-solving
- Practical application of SQL Server management and optimization techniques

Beyond the Course

By the end of this 5-day program, participants will be ready to:

- Design, implement, and manage SQL Server databases in enterprise environments.
- Optimize queries and performance to support business applications.
- Maintain secure and reliable databases with effective backup and recovery strategies.
- Apply best practices for long-term database management and administration.

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