Course code: GOC630

The course is designed for database professionals who have experience with the management or development of a database system and want to be able to effectively monitor and tune the performance of the database system.

## Who is the course for

The course is designed for database professionals who have experience with the management or development of a database system and want to be able to effectively monitor and tune the performance of the database system.

## What we teach you

- We will introduce you into the SQL Server sources and how they are used
- Methods for SQL Server monitoring
- Evaluation of measured values and identification of the problem
- Recommended configurations and solving methods

## Required skills

- Basic knowledge of Microsoft Windows operating systems
- The ability to understand and work with T-SQL at the level of the MOC 2778 or GOC277 course
- Knowledge in the field of database administration at the level of the course MOC 6231

## Course outline

### Basic SQL Server sources and the work with them

- SQL Server Architecture
- Memory Usage
- Working with the repository
- CPU and queries execution
- Object Lock  and Latches
- Tempdb System Database

### Methods for Monitoring SQL Server

- Performance Monitoring
- SQL Profiler
- Dynamic Management Views
- Evaluation of measured values and identification of the problem
- Activity monitoring
- Data Collector
- SQLDiag
- Extended Events
- SQLIO

### Evaluation of measured values and identification of the problem

- Information about performance counters and their characteristics
- Recommended counters ´ values
- Identifying of possible bottlenecks and problems

### Recommended configurations and methods of solution

- SQL Server configuration and recommended procedures
- Database configuration and recommended procedures
- Identification of possible bottlenecks and problems

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