Microsoft SQL Server Monitoring and Performance Tuning

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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