# SQL Doctor

## SQL SERVER PERFORMANCE TUNING RECOMMENDATIONS

SQL Doctor collects SQL Server performance information, analyzes it, and determines the resolution in minutes rather than hours. It leverages proven industry best practices endorsed by SQL Server MVPs to analyze the performance and to provide recommendations. It is a must-have time-saving tool for database administrators, developers, and analysts who need to maintain and improve database performance.

## WHY SQL DOCTOR?

SQL Server specialists are under intense pressure to maintain high levels of  database and application performance. Diagnosing and resolving performance issues can be an overwhelming and time-consuming task. That is especially true when you need to analyze several instances for performance on an ongoing basis. Moreover, performance bottlenecks must be identified and quickly corrected. SQL Doctor retrieves all of the necessary information, analyzes the results, pinpoints potential problems, and provides ranked recommendations that help you to resolve those issues on your instances. Whether you are a novice or expert at performance tuning, SQL Doctor makes your daily tasks easier. Additionally, it provides educational resources to support the performance recommendations. It is not just a performance analyzer; it is a great tool for educating the user about tuning.

SQL Doctor diagnoses and provides the cure for what ails your SQL Server on-premise, on cloud virtual machines, and as managed cloud databases.

## PRODUCT HIGHLIGHTS

• Easily monitor and improve the performance of SQL Server, Azure and AWS instances

• Instantly locate real-time performance issues with Quick Findings

• Improve performance with updated recommendations for SQL Server 2016, Azure SQL Database, and Amazon RDS

• Generate executable scripts to optimize performance

• View trends from history of analysis recommendations

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## KEY BENEFITS

**Optimizes SQL Server Performance** Receive easy to understand performance and tuning recommendations.

**Provides Executable Scripts** Review and run executable scripts to implement the recommendations. Also, generate reverse scripts for undoing any of the implemented optimization scripts.

**Easy Installation & Use** SQL Doctor can be installed and configured very quickly, typically in less than 5 minutes.

**Improves Productivity** SQL Doctor does all the data collection and analysis allowing database professionals to move on to other more important tasks like actually fixing the problem.

**Provides Single, Familiar Tool for On-Premise & Hybrid Cloud** Improve the performance for SQL Server on-premise, on cloud virtual machines, and as managed cloud databases. SQL Doctor includes cloud-specific expert recommendations.

## FEATURES OVERVIEW

**Compatible with On-Premise and Cloud Deployments** Install and run SQL Doctor on-premise and on Azure VM and Amazon EC2. Connect to SQL Server as deployed as an on-premise instance, an instance hosted on Azure VM and Amazon EC2, and Azure SQL Database and Amazon RDS.

**Console** Analyze performance data, display prioritized recommendations, configure settings, view the utilization of system resources, and more in a single console.

**Historical Analysis** Store and easily retrieve historical data and recommendations for trending and comparison.

**Scheduled Analysis** Schedule daily or weekly check-ups.

**Performance Category Analysis** Allows distinct areas of SQL server performance to be analyzed individually (memory, security, indexes, disk, network, processor, etc).

**Export Capabilities** Export performance recommendations for easy distribution.

**Diagnose Queries** Evaluate the most troublesome queries and gain immediate suggestions to improve their performance.

**Extended Events and SQL Trace Events** To collect data, SQL Doctor supports extended events and SQL Trace events.

## RECOMMENDATIONS & IMPACT ANALYSIS

**Wait Stats** Analyze the most common wait statistics that cause query delays (that is, cxpacket, pageiolatch, and async_network_io).

**Disaster Recovery** Identifies SQL Server database integrity issues and recovery methods that may leave the database in a potentially unrecoverable state

**SQL Query Tuning** Identify up to 40 of the most common query syntax inefficiencies

**Index Optimization** Diagnose indexes to determine possible performance optimizations

**Server Configuration** Examine Windows and SQL Server configuration settings

**Security Settings** Uncover many of the most common holes in security settings

**Blocking and Deadlocking** Determine which sessions are blocking or are involved in a deadlock

**Long Running Jobs, Transactions** Identify jobs and transactions that may be running longer than usual

**Processor** Identify configuration settings that cause processor bottlenecks

**Memory** Pinpoint memory usage & configuration performance problems

**Disk** Uncover a multitude of disk and database configuration and performance issues

**Network** Diagnose issues with networking hardware or bandwidth

**Query Plan Statistics** Display statistical details about query plans and recommendations for improving their performance

**Cloud-specific Recommendations** Access enhanced and new expert recommendations that are unique to Azure SQL Database and Amazon RDS SQL Server.

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