

# PRECISE FOR SQL SERVER

Transaction Performance Management for Microsoft SQL Server Databases

Databases are the system of record for business applications. Shifts in user or application behavior, system or network configurations, or even the simple accumulation of data can impact performance. Service level breaches due to performance degradation in the database tier can make or break a company. When performance problems occur, Database Administrators (DBAs) are frequently the first called in to troubleshoot the issue, often without any proof of where the problem lies. DBAs need a solution to determine the root cause and resolve performance problems no matter where they exist in the stack.

## SQL Server Database Management Challenges

Downtime and slow system performance can be costly. Proactive application and database tuning has proven effective in reducing system problems, but requires time, discipline, and detailed performance-oriented information to be successful.

By improving the quality, quantity and granularity of performance data, DBAs gain access to the information they need to stay ahead of critical performance problems. This proactivity can equate to fewer fire-drills, less system downtime and more productivity across the entire company.

## Precise for Microsoft SQL Server Databases

Precise for SQL Server helps ensure that your business applications perform at peak efficiency by collecting and analyzing key performance metrics over time. It helps detect and correct the root cause of problems in applications that rely on an SQL database—often before end users are affected.

Precise plainly shows instance-level resources causing performance problems, such as excessive CPU or I/O or flawed database design. Precise also helps uncover internal SQL Server problems resulting in wait states in latches and data buffers.

For each database object or index, Precise for SQL Server shows the statements that access the object. This allows DBAs to quickly identify unused indexes, or SQL statements that perform full table scans to determine whether your performance problems are caused by poorly written SQL statements or inefficient object design.

## Benefits

» **IDENTIFY** performance issues before end users are impacted or batch windows are exceeded

» **PINPOINT** the root cause of SQL slowdowns

» **GAIN** visibility into objects (tables, indexes) supporting key transactions

» **DISCOVER** transaction paths automatically to locate bottlenecks from URL to SQL to storage

» **ACCELERATE** problem resolution with an in-context view of all Application, database and storage components

» **DEFER** costly infrastructure upgrades by tuning performance

» **IMPROVE** SQL Database performance and response times to increase efficiency

## Precise: Optimizing SQL Server Databases

Precise for SQL Server monitors your database environment continuously, capturing data in a Performance Management Database (PMDB) to enable current, short-term, and long-term historical performance analysis.

Our high-level view of database performance is complemented by actionable, diagnostic information from deep within the database to help DBAs:

- » associate database transactions with end user sessions
- » correlate transactions with web, network, application, and storage tiers
- » troubleshoot database performance incidents

### TRANSPARENCY

A dashboard-style display consolidates and displays a wide range of relevant information at-a-glance. This simplifies and shortens the time required to view instance information across even the largest RAC environments.

Precise continuously analyzes database behavior to find the poorest performing objects or processes. Historical statistics stored by instance, by user, and by program provide the necessary context to further help DBAs in seeing the whole picture.

### RESOLUTION

Once a performance problem is identified, Precise for SQL Server allows DBAs to drill down in context of the user transaction to pinpoint the problem's root cause, whether it is a poorly designed SQL statement, program, database object, or even a bottleneck due to a resource shortage in the underlying operating system or database.

Using Precise for SQL Server, you can quickly analyze SQL statements, database objects, and instances to uncover specific causes of performance problems.

### PREVENTION

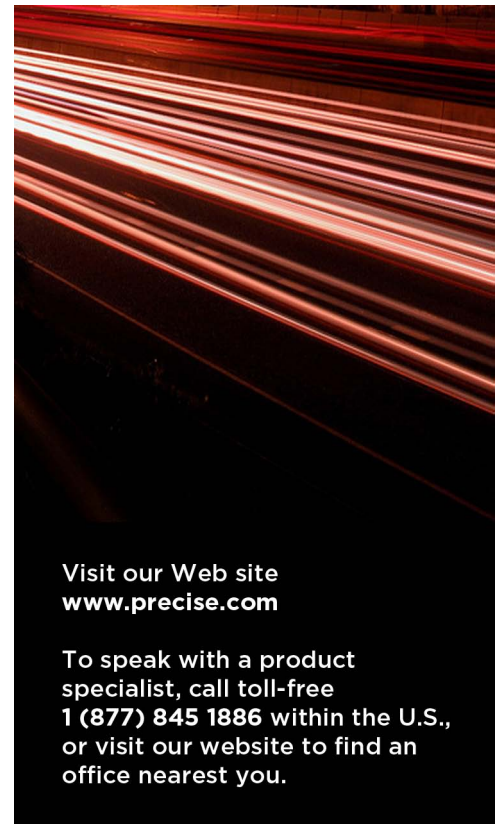
Inefficient SQL statements and poorly designed database structures are the leading causes of performance problems in SQL Server environments. Precise applies knowledge gained through years of experience to the performance information we collect.

Precise for SQL Server provides DBAs with a library of knowledge and experience designed to help them tune their SQL Server environment. Recommendations around SQL statement tuning, database object tuning, index tuning and index cost are just a few examples of the many recommendations available from the product today.

Precise then automatically identifies problem areas and provides actionable advice on how to address them. Before any change is made, "what-if" analysis predicts the impact and removes the risk of accidentally making things worse.

## About Precise

Precise delivers transaction transparency, fastest time to-repair and game-changing problem prevention to customers worldwide. With Precise business and IT can clearly see where critical transactions spend time and how well they are performing against business expectations, providing a whole new perspective on complex IT infrastructure.



Visit our Web site  
[www.precise.com](http://www.precise.com)

To speak with a product specialist, call toll-free 1 (877) 845 1886 within the U.S., or visit our website to find an office nearest you.