



Performance Analysis

for SQL Server

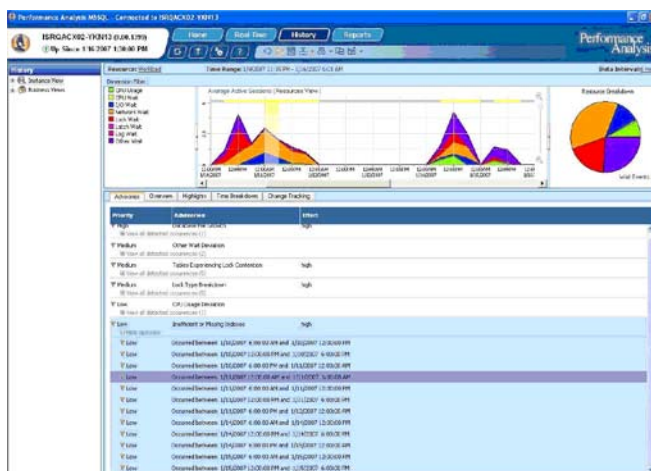
Intelligent Analysis of SQL Server 2000 and SQL Server 2005 Database Performance

Production databases undergo constant change, and because real business costs are tied to their productivity, the ability to analyze and diagnose performance bottlenecks is critical. IT personnel, specifically database administrators (DBAs), must be able to proactively detect and resolve scalability and performance issues threatening productivity. As a result, they need to establish benchmarks to understand the amount of load and throughput the database systems can handle. They also need to be able to collect metrics and monitor activity around the clock in order to ensure high performance levels are maintained. Finally, DBAs require both real-time and historical analyses to detect issues and determine proper action plans for maintaining operational integrity and end-user satisfaction, while avoiding costly production slowdowns.

Diagnosis, Analysis and Tuning for SQL Server Instances

Performance Analysis for SQL Server offers a comprehensive solution for diagnosing and tuning SQL Server instance and application workloads. Through advanced diagnostic features and specially designed interfaces, Performance Analysis transforms SQL Server performance management into a faster, easier and more efficient experience. Its 24x7 historical and real-time analytic capabilities enable DBAs to establish critical system benchmarks, such as load capacity and throughput levels. If performance baselines are exceeded, Performance Analysis presents DBAs with action plans that offer an analysis of the problem and recommendations for improving the overall performance of the database. DBAs can rely on Performance Analysis for SQL Server to:

- Provide at-a-glance root-cause analysis through a performance management digital dashboard for their SQL Server 2000 and SQL Server 2005 environments
- Expose bottlenecks, anomalies and application trends rapidly through sophisticated historical analysis
- Consolidate all mission-critical performance data in highly customizable reports for executive audiences
- Provide uncomplicated yet intelligent alerts and tuning recommendations, to enhance and accelerate the diagnosis and tuning process



Performance Analysis for SQL Server provides deep diagnostics and intelligent profiling of the SQL Server database.

- Provides comprehensive database analysis using advanced StealthCollect technology for SQL Server 2000 and SQL Server 2005
- Establishes performance baselines through intelligent profiling
- Correlates collected metrics to easily identify and resolve performance problems
- Enables unlimited historical storage using a long-term performance repository
- Provides an integrated health-check engine to automate issue detection and reporting



System Requirements:

Due to the breadth of supported client and server platforms, we encourage you to visit the Performance Analysis for SQL Server site.

Database support

- Microsoft SQL Server 2005
- Microsoft SQL Server 2000

Collection and Analysis

StealthCollect, Quest's non-intrusive and lightweight memory sampling technology, gathers performance metrics and continually analyzes this data for inefficiencies and anomalies. Data is stored in a performance warehouse for both short- and long-term historical analysis.

Intelligent Baselineing

IntelliProfile provides adaptive SQL Server profiling that continually and weightlessly monitors and analyzes database performance. IntelliProfile learns the signature database behavior to understand and determine acceptable ranges of activity. These calculated baselines, in turn, provide the comparison information needed to quickly identify changes in the performance of the database. By examining the various cyclical and periodic behaviors of the database while neutralizing the random anomaly, its adaptive element grows "smarter" and more accurate as the sampling period increases. Armed with this knowledge, IntelliProfile enables fine-tuned projections of acceptable/normal ranges of activity for given periods of time.

Performance Advisories

Performance Analysis for SQL Server's performance advisories include a comprehensive presentation of performance categories, organized to deliver both individual alerts and coherent, step-by-step action plans that maximize database performance through context sensitive explanations and a SQL Server knowledgebase. At a glance, database professionals have a unified view that enables them to optimize the application workload, reduce contention, address resource bottlenecks, and identify baseline performance deviations.

Performance Dashboard

The performance dashboard within Performance Analysis provides a logical starting point for any investigation of database performance and health. The home page consolidates key performance metrics, compares these values to both determined baseline activity and user-definable alert limits, as well as enables root-cause detection through performance advisories and links to the underlying data. DBAs will quickly understand the condition of their database, at a glance, without having to perform a manual analysis.

Change Tracking

Performance Analysis offers a comprehensive Change Tracking utility that automatically tracks and reports changes that occur in SQL Server. Change tracking periodically tracks environment, configuration, and database object changes that can potentially influence both system and database performance, and enables users to correlate the occurrence of change and database activity together to identify changes that impact system performance. It also includes reporting with choice of popular output formats, as well as scheduling and change category filtering which enables users to refine the set of changes to display for any given time period.

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