

Eleven Ways Sql Power Tools Differs from other Monitoring Solutions:

Overview

Sql Power Tools breakthrough product **ZUI** (Zero Impact User Interface) provides a **100% web enabled** interface, 3D real-time view of server farm health, state of the art graphical user interface and baseline analysis of server farm performance. ZERO impact SQL statement, performance counter and SQL Agent Job monitoring with server dashboards, baseline analysis, real-time alerting and much more!

- 1. Server Bottleneck Monitoring** Agentless **server bottleneck monitoring** (wait state monitoring). The wait conditions (600+ that a database server posts) causing SQL statements and stored procedures to not complete on a **timely basis** due to resource contention or being queued due to a lack of available resources are monitored. **Wait condition wait times** are tracked by SQL statement, stored procedure, wait type, database and the end-user client. Reducing **SQL wait time** -> reduces **end-user response time** -> improves server throughput. In most cases this can eliminate an **expensive and unnecessary hardware upgrade**.
- 2. Server Farm Baseline Analysis** View in 3D the SQL statements, wait conditions, I/O bottlenecks, performance counters and SQL Jobs in the server farm that had poorer performance than a **prior rolling or user defined** baseline time period. Plus **compare in real-time** the performance of any database server's SQL statements, performance counters and SQL Agent jobs over any time period. End of day summary report is emailed daily that pinpoints degrading performance in the server farm. Immediately know which of the **6K SQL statements** running on a server.
- 3. End-user Experience Monitoring** View the response time that the **end-users actually experience**. The average end-user response time delivered by the database server or to any end-user may be viewed by the end-user **login id** or client IP address. End-user experience service level metrics may be viewed for any time period. e.g. now, a **few hours ago**, last week or last month. The metrics include **average end-user response time**, server time, network time, rows returned and more for any end-user login id. Real-time alerts can be emailed when an end-user's response time exceeds an alert threshold. End-user experience alerts also appear in the Server Farm Tree. The product baseline analysis will pinpoint end-users that are experiencing a response time poorer than **prior baseline** time periods.
- 4. 3D Visualization of Server Farm Performance** One picture tells it all. In one 3D graph, view and compare the performance of hundreds of servers with customizable viewing of multiple performance metrics and the detailed SQL activity. In radar graphs, 3D area graphs, 3D bar charts, 3D column charts and 3D line charts view any subset of **servers** and **performance counters** in real-time. Alert thresholds may be specified for the server farm for baseline analysis, SQL performance, performance counters, blocking incidents and SQL Agent job run times.
- 5. Big Picture Server View with Drill Down to SQL and Performance Counters** View a server's real-time Big Picture **rolling performance** profile in cockpits and graphical view of any subset of the performance metrics for a server. When a performance counter has a **poor value** double click on any graph and the **SQL statements** that ran over the time period will be displayed in the browser. Or when viewing a current or prior time period's (hour ago or last week) **SQL activity** double click on any graph of SQL statement performance and the **performance counters** for the time period the SQL ran over will be displayed.
- 6. Zero Impact SQL Monitoring** Non-intrusive **ZERO impact SQL capture and monitoring of 100%** of the SQL activity with its performance. Ineffective SQL sampling and intrusive server traces having a potential **30% to 60% server overhead** are not used. Allows you to graphically drill down to the exact SQL statements that ran

when end-user **response time** was poor, CPU usage or disk usage are high; or when any performance metric has a poor value. Since 80% of database performance issues are due to poor performing SQL, being able to reconstruct the exact SQL that ran when performance was poor is an absolute necessity. e.g. end-user calls the DBA team and explains that response time was poor an hour ago. We can show the exact SQL that the user ran an **hour ago** along with the corresponding wait conditions, wait times and **performance counter** values!

7. **Top N Sql Analysis Over any Time Frame** Most servers run **6K unique SQL statements** 100+ million times per business day. Our Top N Sql Analysis summarizes the performance the 6K unique SQL statements both **daily** and over any **requested time period**. e.g. between 10 am and 11 am yesterday when server performance was poor. The daily Top N Sql Analysis allows the performance of the 4K unique SQL statements to be automatically compared to prior **baseline time periods** so that **degrading SQL** statement performance in the server farm is immediately identified.
8. **Blocked Process Monitoring** Stealth blocked process monitoring identifies database blocking incidents. Graphical **blocked process tree** of the blocked SPIDs, resources used, wait times, locks held and the SQL statements involved in blocking pinpoints the problems in applications.
9. **SQL Agent Job Monitoring with Baseline Analysis of Job Run Time** View in progress SQL Agent jobs or the historical performance of all jobs. Immediately be alerted to **long running, retried** or **failed** jobs. A Server Farm Job Tree pinpoints SQL Agent Job problem areas in the server farm. Baseline Analysis of server farm job and job step run times pinpoint jobs that are beginning to **run longer** than prior time periods. End of day summary report is emailed daily that summarizes the long running, retried or failed jobs in the server farm.
10. **100% Web-enabled with 3D Graphs, Dashboards and Cockpits of Server Farm Performance** Guarantees fast, continuous access to your entire database server farm environment. Monitor the server farm from anywhere. Eliminate **time consuming** installation and upgrading of software on staff's workstations. Easy-to-use web interface with 3D graphing immediately pinpoints performance issues. Anyone with a web browser has access to the product GUI.
11. **Free Product Training and Setup for Customers** Free product **training** plus product **setup** is provided to all customers. Easy to do given the product's quick web enabled product setup and intuitive operation.

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