

SQL defrag manager™

Automate & optimize database defragmentation

SQL defrag manager is a unique SQL Server index defragmentation solution that automates the time-consuming process of finding fragmented indexes based on parameters that you define within a policy for the targeted database. It gives you the flexibility to run the defragmentation utility immediately or during off-peak hours, all through an easy-to-use graphical user interface. There are no manual scripts required. SQL defrag manager improves server performance by ensuring that indexes are defragmented, which helps SQL server applications run faster and frees DBAs to perform other tasks.

WHY SQL DEFRAG MANAGER?

SQL Server database administrators are tasked with maintaining the high availability and performance of their servers. Key areas that dramatically affect SQL Server performance are indexes that are fragmented and/or out of cluster. With the SQL defrag manager user interface, DBAs can define policies to automate the entire defragmentation process and be assured that it will only run when it's needed. Furthermore, with proactive intelligence and process status notifications, the DBA is kept informed of any exceptions that may occur. SQL defrag manager provides the DBA with a defragmentation autopilot for the entire SQL Server enterprise. Just tell it where to go with as little or as much detail as you'd like and watch SQL defrag manager do the rest.

PRODUCT HIGHLIGHTS

- Automates the identification of index fragmentation “hot spots”
- Schedules index defragmentation jobs (automatic, semiautomatic, manual)
- Provides option to “Update Statistics” for improved optimizer access path selection
- Proactively checks system resources prior to performing defragmentation and delivers email notifications for policy and resource check exceptions
- Manages index fill factor settings to ensure efficient insert/update operations
- Provides centralized management and detailed reporting

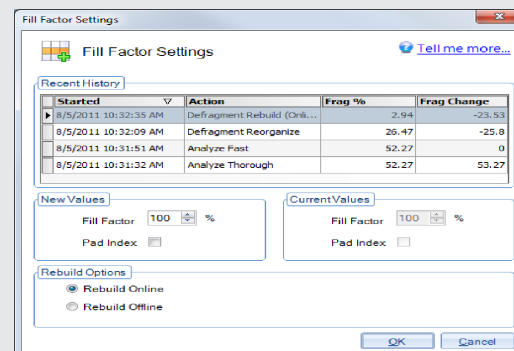
“One of the most difficult tasks in my day to day operations has been to maintain index optimization. SQL defrag manager allows me to configure automated index maintenance based on the fragmentation level of the individual indexes. The maintenance process runs each night, takes a fraction of the time it used to and has very little load impact. I find SQL defrag manager to be an indispensable tool in my day to day duties as a DBA.”

- Senior DBA | Online Publishing Company

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SQL defrag manager gives a consolidated view of fragmentation levels across all servers and databases, with the ability to drill down and take corrective action. SQL defrag manager also lets you customize how you want it to respond when fragmentation levels outside of the acceptable range are detected.



SQL defrag manager lets you modify and view the history of your fill factor settings, fragmentation percentage as well as the changes for each rebuild/reorg over time.

SYSTEM REQUIREMENTS

Management Console

- Windows 2000 SP4+, Windows XP SP2+, Windows Server 2003 SP1+, Windows Server 2008, Windows 2008, Windows Vista SP1+, Windows 7
- Microsoft .NET 2.0

Management Server & Data Repository

- Windows 2000 SP3+, Windows XP SP2+, Windows Server 2003 SP1+, Windows Vista SP2+, Windows 2008, Windows 2008 R2, Windows 7
- Microsoft .NET 2.0 SP1
- Repository: SQL Server 2000, 2005, 2008, 2008 R2, 2012

Supported SQL Server Environments (for defragmentation)

- SQL Server 2000 and SQL Server 2005
- SQL Server 2008, R2
- SQL Server 2012

SQL defrag manager does not install any components, DLLs, scripts, stored procedures or tables on the SQL Server instances being monitored.

KEY BENEFITS

Automated Analysis and SQL Server Performance

Optimization: SQL defrag manager performs an automated analysis of key fragmentation metrics to quickly pinpoint page fragmentation hot spots, those areas where fragmentation is severely hindering performance. As index fragmentation increases over time, performance degrades, response times slow, and I/O suffers. SQL defrag manager continuously monitors fragmentation levels and takes automated action to resolve fragmentation issues, resulting in improved, more consistent server performance. In addition, you can ensure that the optimizer selects the most optimal path to the data by utilizing the “update statistics” option before and/or after the index reorganization completes.

Proactive, Intelligent System Resource Awareness:

SQL defrag manager now provides the DBA with the ability to check the utilization of key system indicators prior to executing the defragmentation. This gives the DBA an added benefit of making sure that the policy is able to run as scheduled and avoid any potential system problems or application bottlenecks.

Policy and Resource Check Alert Notifications: DBAs are notified if a “resource check” prevents the execution of a policy or if there is a problem or delay in executing the defrag job.

Index Management: SQL defrag manager allows you to specify how much free space SQL Server should leave on an index page to limit page splitting and shifting. This helps you to decrease the frequency of your index rebuilds and improve the performance of your SQL server applications.

Centralized Management: The SQL defrag manager management console provides a real-time window into fragmentation levels, and the ability to view and manage defragmentation activity across hundreds of servers and thousands of databases.

Comprehensive Reporting: SQL defrag manager provides comprehensive reporting of analysis and defragmentation activity, giving DBAs and managers the information they need to ensure that database performance is continuously optimized.

TECHNICAL FEATURES

Powerful, Automated Defragmentation Management

- **Flexible, customizable control of defragmentation:** Defrag processes can be triggered by fragmentation percentage or scan density, and prioritized based on fragmentation level, scan density or index size. Additionally, defrag operations can be limited to the “top x” worst indexes, or by a “hard stop” time.
- **Policy-based management:** Defragmentation policies can be applied at the server, database or index level to apply the same defragmentation management policy to multiple objects all at once. Changing the policy changes the defragmentation approach across all objects simultaneously.

- **Index Management:** Index fill factors can be easily modified through the user interface to help reduce the frequency of index defragmentation operations.
- **Proactive system resource checking:** Ascertains the utilization of key system resources prior to executing the defrag utility. If the metric is at a customer defined threshold, the execution of the defrag operation will be delayed or prevented.
- **Email notification:** Provides an early warning system to the database administrator. If the resource check detects that a user defined threshold has been exceeded prior to executing the utility, an email alert is sent to the DBA. When the defrag job is completed normally, the DBA is notified.
- **Detailed metrics:** includes information such as fragmentation percentage, index and table size, free bytes, page density, defragmentation methods and post-run results, and time to execute.
- **Lightweight collection:** Fragmentation details are intelligently collected based on customizable automation policies, keeping overhead on your monitored servers low.
- **Supports multiple levels of operations:** Takes actions at the server level or at a more fine-grained level for tables and all attached indexes, specific indexes or indexed views. Additionally, remediation actions can be customized by index size.

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