



Microsoft SQL Server 2000 Scalability Project – Server Consolidation

Author: Man Xiong
Microsoft Corporation

March 2002

Abstract: In this paper we focus on a common scenario where a single system hosts many databases with a relatively small number of users per database. The effects of the parameters mentioned above are studied on an actual application, called the "PACE." PACE is a financial application from Microsoft® bCentral™ that is running on a combination of servers: Microsoft® SQL Server™ 2000 Enterprise Edition, Microsoft Windows® 2000 Datacenter™ Server, and Dell PowerEdge 8450 servers.

Sql Server Scalability White Paper

Pagani, Margherita



Sql Server Scalability White Paper:

High Performance SQL Server Benjamin Nevarez, 2016-11-21 Design and configure SQL Server instances and databases in support of high throughput applications that are mission critical and provide consistent response times in the face of variations in user numbers and query volumes Learn to configure SQL Server and design your databases to support a given instance and workload You ll learn advanced configuration options in memory technologies storage and disk configuration and more all toward enabling your desired application performance and throughput Configuration doesn t stop with implementation Workloads change over time and other impediments can arise to thwart desired performance High Performance SQL Server covers monitoring and troubleshooting to aid in detecting and fixing production performance problems and minimizing application outages You ll learn a variety of tools ranging from the traditional wait analysis methodology to the new query store and you ll learn how improving performance is really an iterative process High Performance SQL Server is based on SQL Server 2016 although most of its content can be applied to prior versions of the product This book is an excellent complement to performance tuning books focusing on SQL queries and provides the other half of what you need to know by focusing on configuring the instances on which mission critical queries are executed Covers SQL Server instance configuration for optimal performance Helps in implementing SQL Server in memory technologies Provides guidance toward monitoring and ongoing diagnostics What You Will Learn Understand SQL Server s database engine and how it processes queries Configure instances in support of high throughput applications Provide consistent response times to varying user numbers and query volumes Design databases for high throughput applications with focus on performance Record performance baselines and monitor SQL Server instances against them Troubleshoot and fix performance problems Who This Book Is For SQL Server database administrators developers and data architects The book is also of use to system administrators who are managing and are responsible for the physical servers on which SQL Server instances are run

Pro SQL Server Internals Dmitri Korotkevitch, 2016-11-29 Improve your ability to develop manage and troubleshoot SQL Server solutions by learning how different components work under the hood and how they communicate with each other The detailed knowledge helps in implementing and maintaining high throughput databases critical to your business and its customers You ll learn how to identify the root cause of each problem and understand how different design and implementation decisions affect performance of your systems New in this second edition is coverage of SQL Server 2016 Internals including In Memory OLTP columnstore enhancements Operational Analytics support Query Store JSON temporal tables stretch databases security features and other improvements in the new SQL Server version The knowledge also can be applied to Microsoft Azure SQL Databases that share the same code with SQL Server 2016 Pro SQL Server Internals is a book for developers and database administrators and it covers multiple SQL Server versions starting with SQL Server 2005 and going all the way up to the recently released SQL Server 2016 The book provides a solid road map for understanding the

depth and power of the SQL Server database server and teaches how to get the most from the platform and keep your databases running at the level needed to support your business The book Provides detailed knowledge of new SQL Server 2016 features and enhancements Includes revamped coverage of columnstore indexes and In Memory OLTP Covers indexing and transaction strategies Shows how various database objects and technologies are implemented internally and when they should or should not be used Demonstrates how SQL Server executes queries and works with data and transaction log What You Will Learn Design and develop database solutions with SQL Server Troubleshoot design concurrency and performance issues Choose the right database objects and technologies for the job Reduce costs and improve availability and manageability Design disaster recovery and high availability strategies Improve performance of OLTP and data warehouse systems through in memory OLTP and Columnstore indexes Who This Book Is For Developers and database administrators who want to design develop and maintain systems in a way that gets the most from SQL Server This book is an excellent choice for people who prefer to understand and fix the root cause of a problem rather than applying a band aid to it

SQL Server 2012 Query Performance Tuning Grant Fritchey,Sajal Dam,2013-11-19 Queries not running fast enough Tired of the phone calls from frustrated users Grant Fritchey s book SQL Server 2012 Query Performance Tuning is the answer to your SQL Server query performance problems The book is revised to cover the very latest in performance optimization features and techniques It is current with SQL Server 2012 It provides the tools you need to approach your queries with performance in mind SQL Server 2012 Query Performance Tuning leads you through understanding the causes of poor performance how to identify them and how to fix them You ll learn to be proactive in establishing performance baselines using tools like Performance Monitor and Extended Events You ll learn to recognize bottlenecks and defuse them before the phone rings You ll learn some quick solutions too but emphasis is on designing for performance and getting it right and upon heading off trouble before it occurs Delight your users Silence that ringing phone Put the principles and lessons from SQL Server 2012 Query Performance Tuning into practice today Establish performance baselines and monitor against them Troubleshoot and eliminate bottlenecks that frustrate users Plan ahead to achieve the right level of performance

SQL Server Query Performance Tuning Grant Fritchey,2014-09-16 Queries not running fast enough Wondering about the in memory database features in 2014 Tired of phone calls from frustrated users Grant Fritchey s book SQL Server Query Performance Tuning is the answer to your SQL Server query performance problems The book is revised to cover the very latest in performance optimization features and techniques especially including the newly added in memory database features formerly known under the code name Project Hekaton This book provides the tools you need to approach your queries with performance in mind SQL Server Query Performance Tuning leads you through understanding the causes of poor performance how to identify them and how to fix them You ll learn to be proactive in establishing performance baselines using tools like Performance Monitor and Extended Events You ll learn to recognize bottlenecks and defuse them before the

phone rings You'll learn some quick solutions too but emphasis is on designing for performance and getting it right and upon heading off trouble before it occurs Delight your users Silence that ringing phone Put the principles and lessons from SQL Server Query Performance Tuning into practice today Covers the in memory features from Project Hekaton Helps establish performance baselines and monitor against them Guides in troubleshooting and eliminating of bottlenecks that frustrate users

Professional SQL Server 2012 Internals and Troubleshooting Christian Bolton, Justin Langford, Glenn Berry, Gavin Payne, Amit Banerjee, Rob Farley, 2012-10-18 Hands on troubleshooting methods on the most recent release of SQL Server The 2012 release of SQL Server is the most significant one since 2005 and introduces an abundance of new features This critical book provides in depth coverage of best practices for troubleshooting performance problems based on a solid understanding of both SQL Server and Windows internals and shows experienced DBAs how to ensure reliable performance The team of authors shows you how to master the use of specific troubleshooting tools and how to interpret their output so you can quickly identify and resolve any performance issue on any server running SQL Server Covers the core technical topics required to understand how SQL Server and Windows should be working Shares best practices so that you know how to proactively monitor and avoid problems Shows how to use tools to quickly gather analyze and effectively respond to the source of a system wide performance issue Professional SQL Server 2012 Internals and Troubleshooting helps you to quickly become familiar with the changes of this new release so that you can best handle database performance and troubleshooting

SQL Server 2017 Query Performance Tuning Grant Fritchey, 2018-09-03 Identify and fix causes of poor performance You will learn Query Store adaptive execution plans and automated tuning on the Microsoft Azure SQL Database platform Anyone responsible for writing or creating T SQL queries will find valuable the insight into bottlenecks including how to recognize them and eliminate them This book covers the latest in performance optimization features and techniques and is current with SQL Server 2017 If your queries are not running fast enough and you're tired of phone calls from frustrated users then this book is the answer to your performance problems SQL Server 2017 Query Performance Tuning is about more than quick tips and fixes You'll learn to be proactive in establishing performance baselines using tools such as Performance Monitor and Extended Events You'll recognize bottlenecks and defuse them before the phone rings You'll learn some quick solutions too but emphasis is on designing for performance and getting it right The goal is to head off trouble before it occurs What You'll Learn Use Query Store to understand and easily change query performance Recognize and eliminate bottlenecks leading to slow performance Deploy quick fixes when needed following up with long term solutions Implement best practices in T SQL to minimize performance risk Design in the performance that you need through careful query and index design Utilize the latest performance optimization features in SQL Server 2017 Protect query performance during upgrades to the newer versions of SQL Server Who This Book Is For Developers and database administrators with responsibility for application performance in SQL Server environments Anyone responsible for writing or creating T SQL queries will find

valuable the insight into bottlenecks including how to recognize them and eliminate them *SQL Server 2008 for Database Administrators* Rigoberto Garcia, 2008-01-29 SQL Server 2008 Database Administrator It covers content from the SQL Server 2005 topics also MCITP Developer: Microsoft SQL Server 2005 Data Access Design and Optimization Study Guide Marilyn Miller-White, Cristian Andrei Lefter, 2007-04-02 As your essential guide to Microsoft's new SQL Server 2005 certification exam 70 442 this book offers you practical and in depth coverage Full coverage of all exam objectives is presented in a systematic approach so you can be confident you're getting the instruction you need for the exam Plus practical hands on exercises reinforce critical skills and real world scenarios put what you've learned in the context of actual job roles Finally challenging review questions in each chapter prepare you for exam day **High Performance SQL Server DBA** Robin Schumacher, 2005-12 A guide to troubleshooting and correcting SQL Server performance problems this book provides a methodology for use in analyzing any SQL Server database The most recent advances in SQL Server 8i and 9i are covered to make a SQL Server database run as fast as possible Properly using ratio based and bottleneck analysis designing a fast running database from the ground up and establishing methods for making storage and reorganization problems a thing of the past are demonstrated Also presented are new techniques for monitoring and optimizing memory usage and improved methods for uncovering session related bottlenecks **Professional SQL Server 2005 Performance Tuning** Steven Wort, Christian Bolton, Justin Langford, Michael Cape, Joshua J. Jin, Douglas Hinson, Haidong Ji, Paul A. Mestemaker, Arindam Sen, 2009-04-20 Written by a team of expert SQL users this comprehensive resource approaches performance tuning from a new perspective by showing you a methodical scientific approach to diagnose performance problems The book first walks you through how to discover bottlenecks when something is wrong and you'll then learn how to identify and remove the problems that are causing poor performance You'll discover preventive measures you can take to try to avoid a performance problem entirely and you'll learn how to achieve better performance **High Performance Architecture and Grid Computing** Archana Mantri, Suman Nandi Saraswati Kendra, Gaurav Kumar, Sandeep Kumar, 2011-07-05 This book constitutes the refereed proceedings of the International Conference on High Performance Architecture and Grid Computing HPAGC 2011 held in Chandigarh India in July 2011 The 87 revised full papers presented were carefully reviewed and selected from 240 submissions The papers are organized in topical sections on grid and cloud computing high performance architecture information management and network security **Expert Performance Indexing in SQL Server** Jason Strate, Grant Fritchey, 2015-11-11 This book is a deep dive into perhaps the single most important facet of good performance indexes and how to best use them The book begins in the shallow waters with explanations of the types of indexes and how they are stored in databases Moving deeper into the topic and further into the book you will look at the statistics that are accumulated both by indexes and on indexes You'll better understand what indexes are doing in the database and what can be done to mitigate and improve their effect on performance The final

destination is a guided tour through a number of real life scenarios showing approaches you can take to investigate mitigate and improve the performance of your database Defines the types of indexes and their implementation options Provides use cases and common patterns in applying indexing Describes and explain the index metadata and statistics Provides a framework of strategies and approaches for indexing databases

Expert Performance Indexing in SQL Server 2019 Jason Strate,2019-11-28 Take a deep dive into perhaps the single most important facet of good performance indexes and how to best use them Recent updates to SQL Server have made it possible to create indexes in situations that in the past would have prevented their use Other improvements covered in this book include new dynamic management views the ability to pause and resume index maintenance and the ability to more easily recover from failures during index creation and maintenance operations This new edition also brings new content around the indexing of columnstore and in memory tables showing how these new types of tables and the queries that execute against them can also benefit from good indexing practices The book begins with explanations of the types of indexes and how they are stored in databases Moving deeper into the topic and further into the book you will look at the statistics that are accumulated both by indexes and on indexes You will better understand what indexes are doing in the database and what can be done to mitigate and improve their effect on performance You will get a look at the Index Advisor now available in Azure SQL Database and learn how to review and maintain the health of your indexes The final chapters present a guided tour through a number of scenarios showing approaches you can take to investigate mitigate and improve the performance of your database

What You Will Learn Properly index row store columnstore and in memory tables Review statistics to understand indexing choices made by the optimizer Apply indexing strategies such as covering indexes included columns and index intersections Recognize and remove unnecessary indexes Design effective indexes for full text spatial and XML data types Manage the big picture Encompass all indexes in a database and all database instances on a server

Who This Book Is For Database administrators and developers who are ready to lift the performance of their database environment by thoughtfully building indexes to speed up queries that matter the most and make a difference to the business

Expert Performance Indexing for SQL Server 2012 Jason Strate,Ted Krueger,2012-09-07 Expert Performance Indexing for SQL Server 2012 is a deep dive into perhaps the single most important facet of good performance indexes and how to best use them The book begins in the shallow waters with explanations of the types of indexes and how they are stored in databases Moving deeper into the topic and further into the book you will look at the statistics that are accumulated both by indexes and on indexes All of this will help you progress towards properly achieving your database performance goals What you ll learn from Expert Performance Indexing for SQL Server 2012 will help you understand what indexes are doing in the database and what can be done to mitigate and improve their effects on performance The final destination is a guided tour through a number of real world scenarios and approaches that can be taken to investigate mitigate and improve the performance of your database Defines indexes and provides an

understanding of their role Uncovers and explains the statistics that are kept in indexes Teaches strategies and approaches for indexing databases

Scalability Patterns Chander Dhall, 2018-07-20 In this book the CEO of Cazton Inc and internationally acclaimed speaker Chander Dhall demonstrates current website design scalability patterns and takes a pragmatic approach to explaining their pros and cons to show you how to select the appropriate pattern for your site He then tests the patterns by deliberately forcing them to fail and exposing potential flaws before discussing how to design the optimal pattern to match your scale requirements The author explains the use of polyglot programming and how to match the right patterns to your business needs He also details several No SQL patterns and explains the fundamentals of different paradigms of No SQL by showing complementary strategies of using them along with relational databases to achieve the best results He also teaches how to make the scalability pattern work with a real world microservices pattern With the proliferation of countless electronic devices and the ever growing number of Internet users the scalability of websites has become an increasingly important challenge Scalability even though highly coveted may not be so easy to achieve Think that you can't attain responsiveness along with scalability Chander Dhall will demonstrate that in fact they go hand in hand What You'll Learn Architect and develop applications so that they are easy to scale Learn different scaling and partitioning options and the combinations Learn techniques to speed up responsiveness Deep dive into caching column family databases document databases search engines and RDBMS Learn scalability and responsiveness concepts that are usually ignored Effectively balance scalability performance responsiveness and availability while minimizing downtime Who This Book Is For Executives CXOs software architects developers and IT Pros

The Microsoft Data Warehouse Toolkit Joy Mundy, Warren Thornthwaite, 2011-02-25 Best practices and invaluable advice from world renowned data warehouse experts In this book leading data warehouse experts from the Kimball Group share best practices for using the upcoming Business Intelligence release of SQL Server referred to as SQL Server 2008 R2 In this new edition the authors explain how SQL Server 2008 R2 provides a collection of powerful new tools that extend the power of its BI toolset to Excel and SharePoint users and they show how to use SQL Server to build a successful data warehouse that supports the business intelligence requirements that are common to most organizations Covering the complete suite of data warehousing and BI tools that are part of SQL Server 2008 R2 as well as Microsoft Office the authors walk you through a full project lifecycle including design development deployment and maintenance Features more than 50 percent new and revised material that covers the rich new feature set of the SQL Server 2008 R2 release as well as the Office 2010 release Includes brand new content that focuses on PowerPivot for Excel and SharePoint Master Data Services and discusses updated capabilities of SQL Server Analysis Integration and Reporting Services Shares detailed case examples that clearly illustrate how to best apply the techniques described in the book The accompanying Web site contains all code samples as well as the sample database used throughout the case studies The Microsoft Data Warehouse Toolkit Second Edition provides you with the knowledge of how and when to use BI tools such

as Analysis Services and Integration Services to accomplish your most essential data warehousing tasks *Microsoft SQL Server 2008 Internals* Kalen Delaney,Adam Machanic,Paul S. Randal,Kimberly L. Tripp,Conor Cunningham,Ben Nevarez,2009-03-11 Delve inside the core SQL Server engine and put that knowledge to work with guidance from a team of well known internals experts Whether database developer architect or administrator you ll gain the deep knowledge you need to exploit key architectural changes and capture the product s full potential Discover how SQL Server works behind the scenes including What happens internally when SQL Server builds expands shrinks and moves databases How to use event tracking from triggers to the Extended Events Engine Why the right indexes can drastically reduce your query execution time How to transcend normal row size limits with new storage capabilities How the Query Optimizer operates Multiple techniques for troubleshooting problematic query plans When to force SQL Server to reuse a cached query plan or create a new one What SQL Server checks internally when running DBCC How to choose among five isolation levels and two concurrency models when working with multiple concurrent users Encyclopedia of Multimedia Technology and Networking, Second Edition Pagani, Margherita,2008-08-31 Advances in hardware software and audiovisual rendering technologies of recent years have unleashed a wealth of new capabilities and possibilities for multimedia applications creating a need for a comprehensive up to date reference The Encyclopedia of Multimedia Technology and Networking provides hundreds of contributions from over 200 distinguished international experts covering the most important issues concepts trends and technologies in multimedia technology This must have reference contains over 1 300 terms definitions and concepts providing the deepest level of understanding of the field of multimedia technology and networking for academicians researchers and professionals worldwide **Proceedings 2004 VLDB Conference** VLDB,2004-10-08 Proceedings of the 30th Annual International Conference on Very Large Data Bases held in Toronto Canada on August 31 September 3 2004 Organized by the VLDB Endowment VLDB is the premier international conference on database technology

Implementing Data Mining Algorithms in Microsoft SQL Server Claudio Luiz Curotto,Nelson F. F. Ebecken,2005 All source codes as well as data sets used in computational experiments are included in the accompanying CD ROM p xv

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