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SQL Server® 2012
Internals and Troubleshooting

Christian Bolton, Justin Langford, Glenn Berry, Gavin Payne, Amit Banerjee, Rob Farley

Professional Sql Server 2008 Internals And Troubleshooting

Christian Bolton

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Professional SQL Server 2008 Internals and Troubleshooting Christian Bolton,Justin Langford,Brent Ozar,James Rowland-Jones,Jonathan Kehayias,Cindy Gross,Steven Wort,2010-06-22 A hands on resource for SQL Server 2008 troubleshooting methods and tools SQL Server administrators need to ensure that SQL Server remains running 24 7 Authored by leading SQL Server experts and MVPs this book provides in depth coverage of best practices based on a deep understanding of the internals of both SQL Server and the Windows operating system You ll get a thorough look at the SQL Server database architecture and internals as well as Windows OS internals so that you can approach troubleshooting with a solid grasp of the total processing environment Armed with this comprehensive understanding readers will then learn how to use a suite of tools for troubleshooting performance problems whether they originate on the database server or operating system side Topics Covered SQL Server Architecture Understanding Memory SQL Server Waits and Extended Events Working with Storage CPU and Query Processing Locking and Latches Knowing Tempdb Defining Your Approach To Troubleshooting Viewing Server Performance with PerfMon and the PAL Tool Tracing SQL Server with SQL Trace and Profiler Consolidating Data Collection with SQLDiag and the PerfStats Script Introducing RML Utilities for Stress Testing and Trace File Analysis Bringing It All Together with SQL Nexus Using Management Studio Reports and the Performance Dashboard Using SQL Server Management Data Warehouse Shortcuts to Efficient Data Collection and Quick Analysis Note CD ROM DVD and other supplementary materials are not included as part of eBook file Professional SQL Server 2008 Internals and Troubleshooting Christian Bolton,2010 **Professional SQL Server 2008 Internals and Troubleshooting** Christian Bolton,2010 **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 **Microsoft SQL Server 2008 Administration for Oracle DBAs** Mark Anderson,James Fox,Christian Bolton,2010-10-22 Leverage your Oracle DBA skills on Microsoft SQL Server 2008 Microsoft

SQL Server 2008 Administration for Oracle DBAs shows you how to use your experience as an Oracle DBA to get up to speed quickly on the Microsoft SQL Server platform Authors with real world expertise in both Oracle and SQL Server introduce you to fundamental concepts such as SQL Server architecture and core administration before guiding you through advanced techniques including performance optimization high availability and disaster recovery Platform comparisons on the job examples and answers to questions raised by Oracle DBAs learning the SQL Server environment help build your skills This practical guide shows you how to Identify the components of the SQL Server platform Understand SQL Server architecture Install and configure SQL Server software and client components Define and manage database objects Implement and administer database security Monitor identify and resolve performance issues Design and implement high availability system backup and disaster recovery strategies Automate SQL Server using built in scheduling and alerting capabilities Import and export data to and from SQL Server and other RDBMS platforms Upgrade existing SQL Server installations and migrate Oracle databases to SQL Server   *Beginning Object-Oriented Programming with C#* Jack Purdum,2012-11-06 The ideal beginner s guide to C and object oriented programming Wrox beginners guides have the perfect formula for getting programming newcomers up and running This one introduces beginners to object oriented programming using C to demonstrate all of the core constructs of this programming framework Using real world situations you ll discover how to create test and deliver your programs and how to work with classes arrays collections and all the elements of object oriented programming Covers exactly what beginners even those with no prior programming experience need to know to understand object oriented programming and start writing programs in C Explains the advantages and disadvantages of C and tips for understanding C syntax Explores properties encapsulation and classes value data types operands and operators errors and debugging variables and reference types Shows how to use statement repetition and program loops understand arrays and collections and write your own classes Also covers inheritance and polymorphism Beginning Object Oriented Programming with C uses the tried and true Wrox formula for making this popular programming method easy to learn   **Microsoft SQL Server 2008 Internals** Kalen Delaney,Paul S. Randal,Kimberly L. Tripp,Conor Cunningham,Adam Machanic,2009 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 **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 *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

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   Oracle Database Administration for Microsoft SQL Server DBAs Michelle Malcher,2010-10-06 Apply Your SQL Server DBA Skills to Oracle Database Administration Use your SQL Server experience to set up and maintain a high

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