

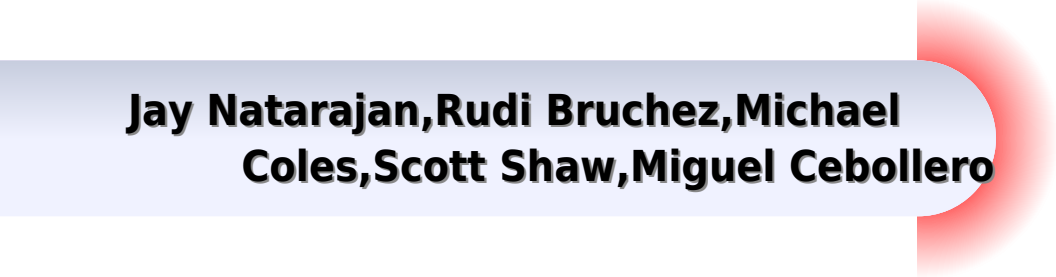
Microsoft SQL Server 2012 Internals



Kalen Delaney
Bob Beauchemin, Conor Cunningham, Craig Freedman,
Jonathan Kehayias, Benjamin Nevarez, Paul S. Randal

Microsoft Sql Server 2012 Internals Developer Reference

**Jay Natarajan, Rudi Bruchez, Michael
Coles, Scott Shaw, Miguel Cebollero**



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Microsoft SQL Server 2012 Internals Kalen Delaney, Craig Freeman, 2013-11-15 Dive deep inside the architecture of SQL Server 2012 Explore the core engine of Microsoft SQL Server 2012 and put that practical knowledge to work Led by a team of SQL Server experts you ll learn the skills you need to exploit key architectural features Go behind the scenes to understand internal operations for creating expanding shrinking and moving databases whether you re a database developer architect or administrator Discover how to Dig into SQL Server 2012 architecture and configuration Use the right recovery model and control transaction logging Reduce query execution time through proper index design Track events from triggers to the Extended Event Engine Examine internal structures with database console commands Transcend row size limitations with special storage capabilities Choose the right transaction isolation level and concurrency model Take control over query plan caching and reuse

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 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 Pro T-SQL 2012 Programmer's Guide Michael Coles,Scott Shaw,Jay Natarajan,Rudi Bruchez,2012-11-29 Pro T SQL 2012 Programmer s Guide is every developer s key to making full use of SQL Server 2012 s powerful built in Transact SQL language Discussing new and existing features the book takes you on an expert guided tour of Transact SQL functionality Fully functioning examples and downloadable source code bring technically accurate and engaging treatment of Transact SQL into your own hands Step by step explanations ensure clarity and an advocacy of best practices will steer you down the road to success Transact SQL is the language developers and DBAs use to interact with SQL Server It s used for everything from querying data to writing stored procedures to managing the database New features in T SQL 2012 include full support for window functions stored sequences the ability to throw errors data paging and more All these important new features are covered in this book Developers and DBAs alike can benefit from the expressive power of Transact SQL and Pro T SQL 2012 Programmer s Guide provides the gateway to success in applying this increasingly important database language to everyday business and technical tasks **Microsoft SQL Server 2012 T-SQL Fundamentals** Itzik Ben-Gan,2012-04-15 Apply powerful window functions in T SQL and increase the performance and speed of your queries Optimize your queries and obtain simple and elegant solutions to a variety of problems using window functions in Transact SQL Led by T SQL expert Itzik Ben Gan you ll learn how to apply calculations against sets of rows in a flexible clear and efficient manner Ideal whether you re a database administrator or developer this practical guide demonstrates ways to use more than a dozen T SQL querying solutions to address common business tasks Discover how to Go beyond traditional query approaches to express set calculations more efficiently Delve into ordered set functions such as rank distribution and offset Implement hypothetical set and inverse distribution functions in standard SQL Use strategies for improving sequencing paging filtering and pivoting Increase query speed using partitioning ordering and coverage indexing Apply new optimization iterators such

as Window Spool Handle common issues such as running totals intervals medians and gaps

Pro T-SQL Programmer's Guide Jay Natarajan,Rudi Bruchez,Michael Coles,Scott Shaw,Miguel Cebollero,2015-03-02 Pro T SQL Programmer s Guide is your guide to making the best use of the powerful Transact SQL programming language that is built into Microsoft SQL Server s database engine This edition is updated to cover the new in memory features that are part of SQL Server 2014 Discussing new and existing features the book takes you on an expert guided tour of Transact SQL functionality Fully functioning examples and downloadable source code bring technically accurate and engaging treatment of Transact SQL into your own hands Step by step explanations ensure clarity and an advocacy of best practices will steer you down the road to success Transact SQL is the language developers and DBAs use to interact with SQL Server It s used for everything from querying data to writing stored procedures to managing the database Support for in memory stored procedures running queries against in memory tables is new in the language and gets coverage in this edition Also covered are must know features such as window functions and data paging that help in writing fast performing database queries Developers and DBAs alike can benefit from the expressive power of T SQL and Pro T SQL Programmer s Guide is your roadmap to success in applying this increasingly important database language to everyday business and technical tasks Covers the newly introduced in memory database features Shares the best practices used by experienced professionals Goes deeply into the subject matter an advanced book for the serious reader

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Database Administration Craig S. Mullins,2012-10-11 Database Administration Second Edition is the definitive technology independent guide to the modern discipline of database administration Packed with best practices and proven solutions for any database platform or environment this text fully reflects the field s latest realities and challenges Drawing on more than thirty years of database experience Mullins focuses on problems that today s DBAs actually face and skills and knowledge they simply must have Mullins presents realistic thorough and up to date coverage of every DBA task including creating database environments data modeling normalization design performance data integrity compliance governance security backup recovery disaster planning data and storage management data movement distribution data warehousing connectivity metadata tools and more This edition adds new coverage of Big Data database appliances cloud computing and NoSQL Mullins includes an entirely new chapter on the DBA s role in regulatory compliance with substantial new material on data breaches auditing encryption retention and metadata management You ll also find an all new glossary plus up to the minute DBA rules of thumb

Practical Database Programming with Visual Basic.NET Ying Bai,2012-05-09 Practical Database Programming with Visual Basic NET The most up to date Visual Basic NET programming textbook covering both fundamentals and advanced level programming techniques complete with examples and solutions Visual Basic NET VB NET is an object oriented computer programming language that can be viewed as an evolution of the classic Visual Basic VB which is implemented on

the NET Framework Microsoft currently supplies two major implementations of Visual Basic Microsoft Visual Studio which is commercial software and Microsoft Visual Studio Express which is free of charge Forgoing the large amounts of programming codes found in most database programming books Practical Database Programming with Visual Basic NET shows students and professionals both how to develop professional and practical database programs in a Visual Basic NET environment by using Visual Studio NET Data Tools and Wizards related to ADO NET 4.0 and how to apply codes that are auto generated by solely using Wizards The fully updated Second Edition Covers both fundamentals and advanced database programming techniques Introduces three popular database systems with practical examples including MS Access SQL Server 2008 and Oracle Features more than fifty sample projects with detailed illustrations and explanations to help students understand key techniques and programming technologies Includes downloadable programming codes and exercise questions This book provides undergraduate and graduate students as well as database programmers and software engineers with the necessary tools to handle the database programming issues in the Visual Studio NET environment

Laser Spectroscopy for Sensing Matthieu Baudelet, 2014-02-15 Laser spectroscopy is a valuable tool for sensing and chemical analysis Developments in lasers detectors and mathematical analytical tools have led to improvements in the sensitivity and selectivity of spectroscopic techniques and extended their fields of application *Laser Spectroscopy for Sensing* examines these advances and how laser spectroscopy can be used in a diverse range of industrial medical and environmental applications Part one reviews basic concepts of atomic and molecular processes and presents the fundamentals of laser technology for controlling the spectral and temporal aspects of laser excitation In addition it explains the selectivity sensitivity and stability of the measurements the construction of databases and the automation of data analysis by machine learning Part two explores laser spectroscopy techniques including cavity based absorption spectroscopy and the use of photo acoustic spectroscopy to acquire absorption spectra of gases and condensed media These chapters discuss imaging methods using laser induced fluorescence and phosphorescence spectroscopies before focusing on light detection and ranging photothermal spectroscopy and terahertz spectroscopy Part three covers a variety of applications of these techniques particularly the detection of chemical biological and explosive threats as well as their use in medicine and forensic science Finally the book examines spectroscopic analysis of industrial materials and their applications in nuclear research and industry The text provides readers with a broad overview of the techniques and applications of laser spectroscopy for sensing It is of great interest to laser scientists and engineers as well as professionals using lasers for medical applications environmental applications military applications and material processing Presents the fundamentals of laser technology for controlling the spectral and temporal aspects of laser excitation Explores laser spectroscopy techniques including cavity based absorption spectroscopy and the use of photo acoustic spectroscopy to acquire absorption spectra of gases and condensed media Considers spectroscopic analysis of industrial materials and their applications in nuclear

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