

Pro Sql Server 2012 Administration Ken Simmons Apress

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Introducing Microsoft SQL Server 2012 - Ross Mistry 2014-09-10

Introducing Microsoft(r) SQL Server(r) 2012 explores the exciting enhancements and new capabilities engineered into SQL Server, ranging from improvements in operation to those in reporting and management. This book is for anyone who has an interest in SQL Server 2012 and wants to understand its capabilities, including database administrators, application developers, and technical decision makers.

Microsoft SQL Server 2008 Internals - Kalen Delaney 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

Pro SQL Server 2012 Administration - Ken Simmons 2012-05-15

Pro SQL Server 2012 Administration is a one-stop source for all the knowledge you'll need to professionally manage a database under Microsoft SQL Server 2012. SQL Server administration is a complex field requiring an unusually broad and well-rounded skill set. A good database administrator must be part system administrator, part database design expert, and part SQL tuning optimization guru. Above all, he or she must be capable of restoring a damaged database at any time. Database administration requires excellent people skills for dealing with management and clients, and solid technical skills for dealing with the hardware and the software. Pro SQL Server 2012 Administration addresses all aspects of database administration, regardless of the size of the implementation. Install SQL Server 2012 and create new database environments. Develop a sound backup strategy for your database. Perform recovery as needed, which many consider to be job #1. Authors Ken Simmons and Sylvester Carstarphen also help you automate your work through the use of policy-based management. Performance optimization gets good coverage, so that you can render assistance when developers need help with problem queries. Rare among database and other technical books is solid guidance on the people side of the equation. Success as a database administrator comes from working well with others, becoming involved in the community, and building the right combination of technical knowledge and people skills to solve problems and get things done professionally and amicably. Simmons and Carstarphen pay special attention to these aspects of the job in this new edition of their comprehensive book on SQL Server administration. Helps you manage a SQL Server 2012 database at professional level Covers the gamut of database administration skills Provides guidance on performance optimization

No Logo - Naomi Klein 2000-01-15

An analysis of the invasion of our personal lives by logo-promoting, powerful corporations combines

muckraking journalism with contemporary memoir to discuss current consumer culture

Cyber Infrastructure Protection - Tarek Nazir Saadawi 2013

Cyber attackers can introduce new viruses, worms, and bots capable of defeating many of our efforts. Costs to the economy from these threats are huge and increasing. Government, business, and academia must therefore work together to understand the threat and develop various modes of fighting cyber attacks, and to establish and enhance a framework to assess the vulnerability of our cyber infrastructure and provide strategic policy directions for the protection of such an infrastructure.

Making Institutional Repositories Work - Burton B. Callicott 2015-11-15

Quickly following what many expected to be a wholesale revolution in library practices, institutional repositories encountered unforeseen problems and a surprising lack of impact. Clunky or cumbersome interfaces, lack of perceived value and use by scholars, fear of copyright infringement, and the like tended to dampen excitement and adoption. This collection of essays, arranged in five thematic sections, is intended to take the pulse of institutional repositories—to see how they have matured and what can be expected from them, as well as introduce what may be the future role of the institutional repository. Making Institutional Repositories Work takes novices as well as seasoned practitioners through the practical and conceptual steps necessary to develop a functioning institutional repository, customized to the needs and culture of the home institution. The first section covers all aspects of system platforms, including hosted and open-source options, big data capabilities and integration, and issues related to discoverability. The second section addresses policy issues, from the basics to open-source and deposit mandates. The third section focuses on recruiting and even creating content. Authors in this section will address the ways that different disciplines tend to have different motivations for deposit, as well as the various ways that institutional repositories can serve as publishing platforms. The fourth section covers assessment and success measures for all involved—librarians, deans, and administrators. The theory and practice of traditional metrics, alt metrics, and peer review receive chapter-length treatment. The fifth section provides case studies that include a boots-on-the-ground perspective of issues raised in the first four sections. By noting trends and potentialities, this final section, authored by Executive Director of SPARC Heather Joseph, makes future predictions and helps managers position institutional repositories to be responsive change and even shape the evolution of scholarly communication.

Head First Software Development - Dan Pilone 2008-12-26

Provides information on successful software development, covering such topics as customer requirements, task estimates, principles of good design, dealing with source code, system testing, and handling bugs.

Principles of Information Systems - Ralph Stair 2009-01-07

Now thoroughly streamlined and revised, PRINCIPLES OF INFORMATION SYSTEMS, Ninth Edition, retains the overall vision and framework that made the previous editions so popular while eliminating outdated topics and updating information, examples, and case studies. In just 600 pages, accomplished authors Ralph Stair and George Reynolds cover IS principles and their real-world applications using timely, current business examples and hands-on activities. Regardless of their majors, students can use this book to understand and practice IS principles so they can function more effectively as workers, managers, decision makers, and organizational leaders. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

[Building a Data Warehouse](#) - Vincent Rainardi 2008-03-11

Here is the ideal field guide for data warehousing implementation. This book first teaches you how to build a data warehouse, including defining the architecture, understanding the methodology, gathering the requirements, designing the data models, and creating the databases. Coverage then explains how to populate the data warehouse and explores how to present data to users using reports and multidimensional databases and how to use the data in the data warehouse for business intelligence, customer relationship management, and other purposes. It also details testing and how to administer data warehouse operation.

Pro SQL Server 2008 Replication - Sujoy Paul 2009-07-26

Pro SQL Server 2008 Replication is for Microsoft database developers and administrators who want to learn about the different types of replication and those best suited to SQL Server 2008. This book will also cover advanced topics like replication with heterogeneous databases, backup and recovery of replicated databases, database mirroring with replication, log shipping with replication, troubleshooting, plus optimization and tuning. Tools like tablediff, SQLCMD, DTA, SQL Profiler, and Replication Monitor will be discussed to demonstrate the different techniques used in monitoring, administering, and troubleshooting replication. Examines the detailed configuration and the internal workings of the different replication types using real-life scenarios Covers replication with database mirroring and troubleshooting Discusses replication administration using different tools

[Pro SQL Server 2008 Relational Database Design and Implementation](#) - Louis Davidson 2008-09-24

Learn effective and scalable database design techniques in a SQL Server environment. Pro SQL Server 2008 Relational Database Design and Implementation covers everything from design logic that business users will understand, all the way to the physical implementation of the design in a SQL Server database. Grounded in best practices and a solid understanding of the underlying theory, authors Louis Davidson, Kevin Kline, Scott Klein, and Kurt Windisch show how to 'get it right' in SQL Server database design and lay a solid groundwork for the future use of valuable business data. Solid foundation in best practices and relational theory Maximize SQL Server features to enhance security, performance, scalability Thorough treatment from conceptual design to an effective, physical implementation

[Beginning T-SQL 2012](#) - Kathi Kellenberger 2012-09-14

Beginning T-SQL 2012 is the first step toward learning the T-SQL language that underlies Microsoft's SQL Server database engine. T-SQL is essential in writing SQL statements to get data into and out of a database. T-SQL is the foundation for business logic embedded in the database in the form of stored procedures and functions. Beginning T-SQL 2012 starts you on the path to mastering T-SQL, with an emphasis on best practices and sound coding techniques. Beginning T-SQL 2012 begins with an introduction to databases, normalization, and to SQL Server Management Studio. Each subsequent chapter teaches an aspect of T-SQL, building on the skills learned in previous chapters. Exercises in each chapter give readers an opportunity for the hands-on practice that leads to true learning and distinguishes the competent professional. Imparts best practices for writing T-SQL Helps you avoid common errors Shows how to write scalable code for good performance

Curating Research Data - Lisa R. Johnston 2016-11-01

Data are becoming the proverbial coin of the digital realm: a research commodity that might purchase reputation credit in a disciplinary culture of data sharing, or buy transparency when faced with funding agency mandates or publisher scrutiny. Unlike most monetary systems, however, digital data can flow in all too great an abundance. Not only does this currency actually grow on trees, but it comes from animals, books, thoughts, and each of us! And that is what makes data curation so essential. The abundance of digital research data challenges library and information science professionals to harness this flow of information streaming from research discovery and scholarly pursuit and preserve the unique evidence for future use. Volume One of Curating Research Data explores the variety of reasons, motivations, and drivers for why data curation services are needed in the context of academic and disciplinary data repository efforts. Twelve chapters, divided into three parts, take an in-depth look at the complex practice of data curation as it emerges around us. Part I sets the stage for data curation by describing current policies, data sharing cultures, and collaborative efforts currently underway that impact potential services. Part II brings several key issues, such as cost recovery and marketing strategy, into focus for practitioners when

considering how to put data curation services in action. Finally, Part III describes the full lifecycle of data by examining the ethical and practical reuse issues that data curation practitioners must consider as we strive to prepare data for the future. Digital data is ubiquitous and rapidly reshaping how scholarship progresses now and into the future. The information expertise of librarians can help ensure the resiliency of digital data, and the information it represents, by addressing how the meaning, integrity, and provenance of digital data generated by researchers today will be captured and conveyed to future researchers.

The Mueller Report - Robert S. Mueller 2019-04-26

This is the full Mueller Report, as released on April 18, 2019, by the U.S. Department of Justice. A reprint of the report exactly as it was issued by the government, it is without analysis or commentary from any other source and with nothing subtracted except for the material redacted by the Department of Justice. The mission of the Mueller investigation was to examine Russian interference in the 2016 Presidential election, consisting of possible links, or "collusion," between the Donald Trump campaign and the Russian government of Vladimir Putin as well as any allegations of obstruction of justice in this regard. It was also intended to detect and prosecute, where warranted, any other crimes that surfaced during the course of the investigation. The report consists of a detailed summary of the various investigations and inquiries that the Special Counsel and colleagues carried out in these areas. The investigation was initiated in the aftermath of the firing of FBI Director James Comey by Donald Trump on May 9, 2017. The FBI, under Director Comey, had already been investigating links between Russia and the Trump campaign. Mueller submitted his report to Attorney General William Barr on March 22, 2019, and the Department of Justice released the redacted report one month later.

Expert Performance Indexing for SQL Server 2012 - Jason Strate 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

Professional SQL Server 2008 Internals and Troubleshooting - Christian Bolton 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 Microsoft SQL Server 2008 Administration](#) - Brian Knight 2011-01-04

SQL Server 2008 is how-to guide for experienced DBAs. Tutorial-based, this book will get you over the

learning curve of how to configure and administer SQL Server 2008. Whether you're an administrator or developer using SQL Server, you can't avoid wearing a DBA hat at some point. The book is loaded with unique tips and workarounds for the most difficult SQL Server admin issues, including managing and monitoring SQL Server, automating administration, security, performance tuning, scaling and replications, clustering, and backup and recovery. A companion website is also available.

[Beginning Software Engineering](#) - Rod Stephens 2015-03-02

A complete introduction to building robust and reliable software Beginning Software Engineering demystifies the software engineering methodologies and techniques that professional developers use to design and build robust, efficient, and consistently reliable software. Free of jargon and assuming no previous programming, development, or management experience, this accessible guide explains important concepts and techniques that can be applied to any programming language. Each chapter ends with exercises that let you test your understanding and help you elaborate on the chapter's main concepts. Everything you need to understand waterfall, Sashimi, agile, RAD, Scrum, Kanban, Extreme Programming, and many other development models is inside! Describes in plain English what software engineering is Explains the roles and responsibilities of team members working on a software engineering project Outlines key phases that any software engineering effort must handle to produce applications that are powerful and dependable Details the most popular software development methodologies and explains the different ways they handle critical development tasks Incorporates exercises that expand upon each chapter's main ideas Includes an extensive glossary of software engineering terms

Power Pivot and Power Bi: The Excel User's Guide to Dax, Power Query, Power Bi & Power Pivot in Excel 2010-2016 - Avichal Singh 2021-12

Microsoft PowerPivot is a free add-on to Excel from Microsoft that allows users to produce new kinds of reports and analyses that were simply impossible before, and this book is the first to tackle DAX formulas, the core capability of PowerPivot, from the perspective of the Excel audience. Written by the world's foremost PowerPivot blogger and practitioner, the book's concepts and approach are introduced in a step-by-step manner tailored to the learning style of Excel users everywhere. The techniques presented allow users to produce, in hours or even minutes, results that formerly would have taken entire teams weeks or months to produce. The "pattern-like" techniques and best practices contained in this book have been developed and refined over two years of onsite training with Excel users around the world, and the key lessons from those seminars costing thousands of dollars per day are now available within the pages of this easy-to-follow guide. This updated edition covers new features introduced with Office 2015.

Pro SQL Server 2008 Mirroring - Robert Davis 2009-12-03

Pro SQL Server 2008 Mirroring is your complete guide to planning, using, deploying, and maintaining database mirroring as a high-availability option. Mirroring protects you by maintaining one or more duplicate copies of your database for use in the event the primary copy is damaged. It is a key component of any production-level, high-availability solution. This book covers the full spectrum of database mirroring, taking you from the planning phase through the implementation to the maintenance phase and beyond. Easy to follow, step-by-step instructions for beginner and intermediate users In-depth, detailed information for advanced and expert users Covers all phases of database mirroring from planning to sustained maintenance

[Expert SQL Server 2005 Development](#) - Adam Machanic 2007-10-13

While building on the skills you already have, Expert SQL Server 2005 Development will help you become an even better developer by focusing on best practices and demonstrating how to design high-performance, maintainable database applications. This book starts by reintroducing the database as a integral part of the software development ecosystem. You'll learn how to think about SQL Server development as you would any other software development. For example, there's no reason you can't architect and test database routines just as you would architect and test application code. And nothing should stop you from implementing the types of exception handling and security rules that are considered so important in other tiers, even if they are usually ignored in the database. You'll learn how to apply development methodologies like these to produce high-quality encryption and SQLCLR solutions. Furthermore, you'll discover how to exploit a variety of tools that SQL Server offers in order to properly use dynamic SQL and to improve

concurrency in your applications. Finally, you'll become well versed in implementing spatial and temporal database designs, as well as approaching graph and hierarchy problems.

DBA Survivor - Thomas LaRock 2010-08-26

DBA Survivor is a book to help new database administrators understand more about the world of database administration. More and more people are moving into the DBA profession, and many are looking for a getting-started guide. Blogs are written about how to be an exceptional DBA and what to do in your first 100 days. This book takes a different approach, injecting some humor into helping you understand how to hit the ground running, and most importantly how to survive as a DBA. And it's not just survival that matters. Author Thomas LaRock wants much more for you than mere survival. He wants you to have excellence, competence, visibility, confidence, and service. These are the traits and characteristics of DBAs who truly succeed and become respected in their profession. Don't settle for just muddling through your job each day. Strive to excel. Aim to make a difference, for your clients, and for your colleagues. Focuses on the soft skills that distinguish truly exceptional DBAs Takes a humorous approach to keep readers engaged Written by a SQL Server "Most Valuable Professional" and board member of PASS

SQL Server Forensic Analysis - Kevvie Fowler 2009

The tools and techniques investigators need to conduct crucial forensic investigations in SQL Server. • • The database is the part of a forensic investigation that companies are the most concerned about. This book provides data and tools needed to avoid under or over reporting. • Teaches many about aspects about SQL server that are not widely known. • A complete tutorial to conducting SQL Server investigations and using that knowledge to confirm, assess, and investigate a digital intrusion. Companies today are in a terrible bind: They must report all possible data security breaches, but they don't always know if, in a given breach, data has been compromised. As a result, most companies are releasing information to the public about every system breach or attempted system breach they know about. This reporting, in turn, whips up public hysteria and makes many companies look bad. Kevvie Fowler's 'SQL Server Forensic Analysis' is an attempt to calm everyone down and focuses on a key, under-documented component of today's forensics investigations. The book will help investigators determine if a breach was attempted, if information on the database server was compromised in any way, and if any rootkits have been installed that can compromise sensitive data in the future. Readers will learn how to prioritize, acquire, and analyze database evidence using forensically sound practices and free industry tools. The final chapter will include a case study that demonstrates all the techniques from the book applied in a walk-through of a real-world investigation.

Transforming Learning with Meaningful Technologies - Maren Scheffel 2019-09-09

This book constitutes the proceedings of the 14th European Conference on Technology Enhanced Learning, EC-TEL 2019, held in Delft, The Netherlands, in September 2019. The 41 research papers and 50 demo and poster papers presented in this volume were carefully reviewed and selected from 149 submissions. The contributions reflect the debate around the role of and challenges for cutting-edge 21st century meaningful technologies and advances such as artificial intelligence and robots, augmented reality and ubiquitous computing technologies and at the same time connecting them to different pedagogical approaches, types of learning settings, and application domains that can benefit from such technologies.

Pro SQL Server 2012 Practices - Chris Shaw 2012-11-29

Pro SQL Server 2012 Practices is an anthology of high-end wisdom from a group of accomplished database administrators who are quietly but relentlessly pushing the performance and feature envelope of Microsoft SQL Server 2012. With an emphasis upon performance—but also branching into release management, auditing, and other issues—the book helps you deliver the most value for your company's investment in Microsoft's flagship database system. Goes beyond the manual to cover good techniques and best practices Delivers knowledge usually gained only by hard experience Focuses upon performance, scalability, reliability Helps achieve the predictability needed to be in control at all times

[SQL Server 2008 Administration in Action](#) - Rodney C. Colledge 2009-07-31

SQL Server 2008 Administration isn't a standard SQL Server tutorial-there are dozens of those to choose from. Instead, this book breaks down the role of "SQL Server Administrator" into its key focus areas and tasks and details the techniques and best practices that make an administrator effective. In this book, a reader can quickly identify a task and find the best practice associated with it. For example, a reader

looking for information about indexing would find step-by-step procedures for identifying and dropping unused indexes, creating missing indexes, selecting the appropriate clustered index, and so forth. Each technique is presented in a clear, straightforward style and in the order of the typical lifecycle of a SQL Server system. This allows a reader to easily open the book at the appropriate page and focus on what you need to know for each specific situation. While most techniques will work for all versions of SQL Server, this book is current for the recent final release of SQL Server 2008. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book.

SQL Server MVP Deep Dives - Paul S. Randal 2009-10-31

This is not an ordinary SQL Server Book. SQL Server MVP Deep Dives brings together the world's most highly-regarded SQL Server experts to create a masterful collection of tips, techniques, and experience-driven best practices for SQL Server development and administration. These SQL Server MVPs-53 in all each selected a topic of great interest to them, and in this unique book, they share their knowledge and passion with you. SQL Server MVP Deep Dives is organized into five parts: Design and Architecture, Development, Administration, Performance Tuning and Optimization, and Business Intelligence. Within each part, you'll find a collection of brilliantly concise and focused chapters that take on key topics like mobile data strategies, Dynamic Management Views, or query performance. The range of subjects covered is comprehensive, from database design tips to data profiling strategies for BI. Additionally, the authors of this book have generously donated 100% of their royalties to support War Child International. War Child International is a network of independent organizations, working across the world to help children affected by war. War Child was founded upon a fundamental goal: to advance the cause of peace through investing hope in the lives of children caught up in the horrors of war. War Child works in many different conflict areas around the world, helping hundreds of thousands of children every year. Visit www.warchild.org for more information. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book.

Inside Microsoft SQL Server 2008 - Itzik Ben-Gan 2009

Provides information on the architecture of the T-SQL programming language to create scalable code.

Cloud Computing - Rajkumar Buyya 2010-12-17

The primary purpose of this book is to capture the state-of-the-art in Cloud Computing technologies and applications. The book will also aim to identify potential research directions and technologies that will facilitate creation a global market-place of cloud computing services supporting scientific, industrial, business, and consumer applications. We expect the book to serve as a reference for larger audience such as systems architects, practitioners, developers, new researchers and graduate level students. This area of research is relatively recent, and as such has no existing reference book that addresses it. This book will be a timely contribution to a field that is gaining considerable research interest, momentum, and is expected to be of increasing interest to commercial developers. The book is targeted for professional computer science developers and graduate students especially at Masters level. As Cloud Computing is recognized as one of the top five emerging technologies that will have a major impact on the quality of science and society over the next 20 years, its knowledge will help position our readers at the forefront of the field.

Autonomous Horizons - Greg Zacharias 2019-04-05

Dr. Greg Zacharias, former Chief Scientist of the United States Air Force (2015-18), explores next steps in autonomous systems (AS) development, fielding, and training. Rapid advances in AS development and artificial intelligence (AI) research will change how we think about machines, whether they are individual vehicle platforms or networked enterprises. The payoff will be considerable, affording the US military significant protection for aviators, greater effectiveness in employment, and unlimited opportunities for novel and disruptive concepts of operations. Autonomous Horizons: The Way Forward identifies issues and makes recommendations for the Air Force to take full advantage of this transformational technology.

Microsoft SQL Server 2016: A Beginner's Guide, Sixth Edition - Dusan Petkovic 2016-10-14

Up-to-date Microsoft SQL Server 2016 skills made easy! Get up and running on Microsoft SQL Server 2016 in no time with help from this thoroughly revised, practical resource. The book offers thorough coverage of SQL management and development and features full details on the newest business intelligence, reporting, and security features. Filled with new real-world examples and hands-on exercises, Microsoft SQL Server

2016: A Beginner's Guide, Sixth Edition, starts by explaining fundamental relational database system concepts. From there, you will learn how to write Transact-SQL statements, execute simple and complex database queries, handle system administration and security, and use the powerful analysis and BI tools. XML, spatial data, and full-text search are also covered in this step-by-step tutorial. · Revised from the ground up to cover the latest version of SQL Server · Ideal both as a self-study guide and a classroom textbook · Written by a prominent professor and best-selling author

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

Pro SQL Server 2008 Policy-Based Management - Ken Simmons 2011-07-21

Pro SQL Server 2008 Policy-Based Management is critical for database administrators seeking in-depth knowledge on administering servers using the new policy-based management features introduced in SQL Server 2008. This book will cover everything from a basic introduction to policy-based management to creating your own custom policies to enforce consistent rules across your organization. Provides in-depth treatment of policy-based management in a single source Provides practical usage scenarios for policy-based management Provides guidance to help meet growing regulatory compliance needs

Handbook on Using Administrative Data for Research and Evidence-based Policy - Shawn Cole 2021

This Handbook intends to inform Data Providers and researchers on how to provide privacy-protected access to, handle, and analyze administrative data, and to link them with existing resources, such as a database of data use agreements (DUA) and templates. Available publicly, the Handbook will provide guidance on data access requirements and procedures, data privacy, data security, property rights, regulations for public data use, data architecture, data use and storage, cost structure and recovery, ethics and privacy-protection, making data accessible for research, and dissemination for restricted access use. The knowledge base will serve as a resource for all researchers looking to work with administrative data and for Data Providers looking to make such data available.

Microsoft SQL Server 2008 Integration Services - Erik Veerman 2009-10-16

An authoritative guide to designing effective solutions for data cleansing, ETL, and file management with SQL Server 2008 Integration Services SQL Server Integration Services (SSIS) is the leading tool in the data warehouse industry, used for performing extraction, transformation, and load operations. After an overview of SSIS architecture, the authors walk you a series of real-world problems and show various techniques for handling them. Shows you how to design SSIS solutions for data cleansing, ETL and file management

Demonstrates how to integrate data from a variety of datasources, Shows how to monitor SSIS performance, Demonstrates how to avoid common pitfalls involved with SSISdeployment Explains how to ensure performance of the deployed solution andeffectively handle unexpected system failures and outages The companion Web site provides sample code and databasescripts that readers can directly implement This book shows you how to design, build, deploy, and managesolutions to real-world problems that SSIS administrators anddevelopers face day-to-day.

Analyzing Computer Security - Charles P. Pfleeger 2012

In this book, the authors of the 20-year best-selling classic Security in Computing take a fresh, contemporary, and powerfully relevant new approach to introducing computer security. Organised around attacks and mitigations, the Pfleegers' new Analyzing Computer Security will attract students' attention by building on the high-profile security failures they may have already encountered in the popular media. Each section starts with an attack description. Next, the authors explain the vulnerabilities that have allowed this attack to occur. With this foundation in place, they systematically present today's most effective countermeasures for blocking or weakening the attack. One step at a time, students progress from attack/problem/harm to solution/protection/mitigation, building the powerful real-world problem solving skills they need to succeed as information security professionals. Analyzing Computer Security addresses crucial contemporary computer security themes throughout, including effective security management and risk analysis; economics and quantitative study; privacy, ethics, and laws; and the use of overlapping controls. The authors also present significant new material on computer forensics, insiders, human factors, and trust.

On Excellence in Teaching - Robert J. Marzano 2009-10-30

Learn from the world's best education researchers, theorists, and staff developers as they present recommendations on effective instruction. The book provides a comprehensive view of instruction from a theoretical, systemic, and classroom perspective. The authors' diverse expertise delivers a wide range of ideas and strategies.

Pro SQL Server 2012 Administration - Ken Simmons 2012-07-10

Pro SQL Server 2012 Administration is a one-stop source for all the knowledge you'll need to professionally manage a database under Microsoft SQL Server 2012. SQL Server administration is a complex field

requiring an unusually broad and well-rounded skill set. A good database administrator must be part system administrator, part database design expert, and part SQL tuning optimization guru. Above all, he or she must be capable of restoring a damaged database at any time. Database administration requires excellent people skills for dealing with management and clients, and solid technical skills for dealing with the hardware and the software. Pro SQL Server 2012 Administration addresses all aspects of database administration, regardless of the size of the implementation. Install SQL Server 2012 and create new database environments. Develop a sound backup strategy for your database. Perform recovery as needed, which many consider to be job #1. Authors Ken Simmons and Sylvester Carstarphen also help you automate your work through the use of policy-based management. Performance optimization gets good coverage, so that you can render assistance when developers need help with problem queries. Rare among database and other technical books is solid guidance on the people side of the equation. Success as a database administrator comes from working well with others, becoming involved in the community, and building the right combination of technical knowledge and people skills to solve problems and get things done professionally and amicably. Simmons and Carstarphen pay special attention to these aspects of the job in this new edition of their comprehensive book on SQL Server administration. Helps you manage a SQL Server 2012 database at professional level Covers the gamut of database administration skills Provides guidance on performance optimization

Pro SQL Server 2008 Failover Clustering - Allan Hirt 2009-06-29

Pro SQL Server 2008 Failover Clustering is dedicated to the planning, implementation, and administration of clustered SQL Server 2008 implementations. Whether deploying a single-instance, two-node cluster or a multiple-node, many-instance cluster for consolidation, this book will detail all of the considerations and pitfalls that may be encountered along the way. Clustering and high-availability expert Allan Hirt shares his many years of wisdom and experience, showing how to put together the right combination of people, processes, technology, and best practices to create and manage world-class, highly available SQL Server 2008 failover clusters. Provides a comprehensive look at SQL Server 2008 failover clustering from the first steps of planning to daily administration Goes beyond just SQL Server 2008 and also covers Windows Server 2008 clustering in depth with a SQL Server focus Covers how and where virtualization can be used with failover clusters Addresses the needs of enterprise-class, 24/7 SQL Server 2008 implementations Written by the leading expert on SQL Server failover clustering