Joe Celko S Trees And Hierarchies In Sql For Smar

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Inside the SQL Server Query Optimizer - Benjamin Nevarez 2011-03

The SQL Server Query Optimizer is perceived by many to be a magic black box, transforming SQL queries into high performance execution plans in the blink of an eye through some unknowable process. The truth is that, while the Query Optimizer is indeed the highly-complex result of decades of research, learning how it works its magic is not only possible, but immensely useful to DBAs and Developers alike. A better understanding of what the Query Optimizer does behind the scenes can help you to improve the performance of your databases and applications, and this book explains the core concepts behind how the SQL Server Query Optimizer works. With this knowledge, you'll be able to write superior queries, provide the Query Optimizer with all the information it needs to produce efficient execution plans, and troubleshoot the cases when the Query Optimizer is not giving you the best plan possible. With over 15 years of experience in the use of Relational Databases (including SQL Server since version 6.5), Benjamin has watched the SQL Server Query Optimizer grow and evolve. His insight will leave you with an excellent foundation in the practicalities of the Query Optimizer, and everything you need to know to start tuning your queries to perfection.

Joe Celko's Analytics and OLAP in SQL - Joe Celko 2010-07-26

Joe Celko's Analytics and OLAP in SQL is the first book that teaches what SQL programmers need in order to successfully make the transition from On-Line Transaction Processing (OLTP) systems into the world of On-Line Analytical Processing (OLAP). This book is not an in-depth look at particular subjects, but an overview of many subjects that will give the working RDBMS programmers a map of the terra incognita they will face — if they want to grow. It contains expert advice from a noted SQL authority and award-winning columnist, who has given ten years of service to the ANSI SQL standards committee and many more years of dependable help to readers of online forums. It offers real-world insights and lots of practical examples. It covers the OLAP extensions in SQL-99; ETL tools, OLAP features supported in DBMSs, other query tools, simple reports, and statistical software. This book is ideal for experienced SQL programmers who have worked with OLTP systems who need to learn techniques—and even some tricks—that they can use in an OLAP situation. Expert advice from a noted SQL authority and award-winning columnist, who has given ten years of service to the ANSI SQL standards committee and many more years of dependable help to readers of online forums First book that teaches what SQL programmers need in order to successfully make the transition from transactional systems (OLTP) into the world of data warehouse data and OLAP Offers real-world insights and lots of practical examples Covers the OLAP extensions in SQL-99; ETL tools, OLAP features supported in DBMSs, other query tools, simple reports, and statistical

software

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

SQL - Chris Fehily 2010-04-16

SQL is a standard interactive and programming language for querying and modifying data and managing databases. This task-based tutorial and reference guide takes the mystery out learning and applying SQL. After going over the relational database model and SQL syntax in the first few chapters, veteran author Chris Fehily immediately launches into the tasks that will get readers comfortable with SQL. In addition to covering all the SQL basics, this thoroughly updated reference contains a wealth of in-depth SQL knowledge and serves as an excellent reference for more experienced users.

Recent Advances in Information and Communication Technology 2015 - Herwig Unger 2015-06-14

This book presents recent research work and results in the area of communication and information technologies. The book includes the main results of the 11th International Conference on Computing and Information Technology (IC2IT) held during July 2nd-3rd, 2015 in Bangkok, Thailand. The book is divided into the two main parts Data Mining and Machine Learning as well as Data Network and Communications. New algorithms and methods of data mining asr discussed as well as innovative applications and state-of-the-art technologies on data mining, machine learning and data networking.

Joe Celko's SQL for Smarties - Joe Celko 1999-10-11

An industry consultant shares his most useful tips and tricks for advanced SQL programming to help the working programmer gain performance and work around system deficiencies.

Database Tuning - Dennis Shasha 2002-06-07

Tuning your database for optimal performance means more than following a few short steps in a vendor-specific guide. For maximum improvement, you need a broad and deep knowledge of basic tuning principles, the ability to gather data in a systematic way, and the skill to make your system run faster. This is an art as well as a science, and Database Tuning: Principles, Experiments, and Troubleshooting Techniques will help you develop portable skills that will allow you to tune a wide variety of database systems on a multitude of hardware and operating systems. Further, these skills, combined with the scripts provided for validating results, are exactly what you need to evaluate competing database products and to choose the right one. Forward by Jim Gray, with invited chapters by Joe Celko and Alberto Lerner Includes industrial contributions by Bill McKenna (RedBrick/Informix), Hany Saleeb (Oracle), Tim Shetler (TimesTen), Judy Smith (Deutsche Bank), and Ron Yorita (IBM) Covers the entire system environment: hardware, operating system, transactions, indexes, queries, table design, and application analysis Contains experiments (scripts available on the author's site) to help you verify a system's effectiveness in your own environment Presents special topics, including data warehousing, Web support, main memory databases, specialized databases, and financial time series Describes performance-monitoring techniques that will help you recognize and troubleshoot problems

Distributed Algorithms - Nancy A. Lynch 1996-04-16

In Distributed Algorithms, Nancy Lynch provides a blueprint for designing, implementing, and analyzing distributed algorithms. She directs her book at a wide audience, including students, programmers, system designers, and researchers. Distributed Algorithms contains the

most significant algorithms and impossibility results in the area, all in a simple automata-theoretic setting. The algorithms are proved correct, and their complexity is analyzed according to precisely defined complexity measures. The problems covered include resource allocation, communication, consensus among distributed processes, data consistency, deadlock detection, leader election, global snapshots, and many others. The material is organized according to the system model—first by the timing model and then by the interprocess communication mechanism. The material on system models is isolated in separate chapters for easy reference. The presentation is completely rigorous, yet is intuitive enough for immediate comprehension. This book familiarizes readers with important problems, algorithms, and impossibility results in the area: readers can then recognize the problems when they arise in practice, apply the algorithms to solve them, and use the impossibility results to determine whether problems are unsolvable. The book also provides readers with the basic mathematical tools for designing new algorithms and proving new impossibility results. In addition, it teaches readers how to reason carefully about distributed algorithms—to model them formally, devise precise specifications for their required behavior, prove their correctness, and evaluate their performance with realistic measures.

Effective SQL - John L. Viescas 2017-01-09
Effective SQL brings together the hands-on solutions and practical insights you need to solve a wide range of complex problems with SQL, and to design databases that make it far easier to manage data in the future. Leveraging the proven format of the best-selling Effective series, it focuses on providing clear, practical explanations, expert tips, and plenty of realistic examples -- all in full color. Drawing on their immense experience as consultants and instructors, three world-class database experts identify specific challenges, and distill each solution into five pages or less. Throughout, they provide well-annotated SQL code designed for all leading platforms, as well as code for specific implementations ranging from SQL Server to Oracle and MySQL, wherever these vary or permit you to achieve your goal more efficiently. Going beyond mere syntax, the authors also show how to avoid poor database design that makes it difficult to write effective SQL, how to improve suboptimal designs, and how to work around designs you can't change. You'll also find detailed sections on filtering and finding data, aggregation, subqueries, and metadata, as well as specific solutions for everything from listing products to scheduling events and defining data hierarchies. Simply put, if you already know the basics of SQL, Effective SQL will help you become a world-class SQL problem-solver.

Joe Celko's Trees and Hierarchies in SQL for Smarties - Joe Celko 2012-01-20
Provides information on developing database applications in SQL, covering such topics as adjacendy list model, nested sets, binary trees, data modeling, graphs, and hierarchical database systems.

Pro Django - Marty Alchin 2009-01-21
Django is the leading Python web application development framework. Learn how to leverage the Django web framework to its full potential in this advanced tutorial and reference. Endorsed by Django, Pro Django more or less picks up where The Definitive Guide to Django left off and examines in greater detail the unusual and complex problems that Python web application developers can face and how to solve them. Provides in–depth information about advanced tools and techniques available in every Django installation Runs the gamut from the theory of Django’s internal operations to actual code that solves real–world problems for high–volume environments Goes above and beyond other books, leaving the basics behind Shows how Django can do things even its core developers never dreamed possible

MySQL Stored Procedure Programming - Guy Harrison 2006-03-28
The implementation of stored procedures in MySQL 5.0 a hugemilestone -- one that is expected to lead to widespread enterprise adoption ofthe already extremely popular MySQL database. If you are serious aboutbuilding the web-based database applications of the future, you need toget up to speed quickly on how stored procedures work -- and how tobuild them the right way. This book, destined to be the bible of storedprocedure development, is a resource that no real MySQL

programmer canafford to do without. In the decade since MySQL burst on the scene, it has become thedominant open source database, with capabilities and performancerivaling those of commercial RDBMS offerings like Oracle and SQLServer. Along with Linux and PHP, MySQL is at the heart of millions ofapplications. And now, with support for stored procedures, functions,and triggers in MySQL 5.0, MySQL offers the programming power neededfor true enterprise use. MySQL's new procedural language has a straightforward syntax, making iteasy to write simple programs. But it's not so easy to write secure,easily maintained, high-performance, and bug-free programs. Few in theMySQL world have substantial experience yet with stored procedures, butGuy Harrison and Steven Feuerstein have decades of combined expertise. In MySQL Stored Procedure Programming, they putthat hard-won experience to good use. Packed with code examples and coveringeverything from language basics to application building to advancedtuning and best practices, this highly readable book is the one-stopguide to MySQL development. It consists of four major sections: MySQL stored programming fundamentals -- tutorial, basicstatements, SQL in stored programs, and error handling Building MySQL stored programs -- transaction handling,built-in functions, stored functions, and triggers MySQL stored programs in applications -- using storedprograms with PHP, Java, Perl, Python, and .NET (C# and VB.NET) Optimizing MySQL stored programs -- security, basic andadvanced SQL tuning, optimizing stored program code, and programmingbest practices A companion web site contains many thousands of lines of code, that youcan put to use immediately. Guy Harrison is Chief Architect of Database Solutions at Quest Softwareand a frequent speaker and writer on MySQL topics. Steven Feuerstein isthe author of Oracle PL/SQL Programming, the classic reference for Oracle stored programming for more than ten years. Both have decades of experience as database developers, and between them they have authored a dozen books.

Joe Celko's Data and Databases - Joe Celko 1999-08-10

This text covers basic database concepts to provide a conceptual understanding of data and databases necessary for database design and development.

The Guru's Guide to Transact-SQL - Ken Henderson 2000

Demonstrates important concepts and offers working Transact-SQL code, covering data filtering, DDL, DML, statistical functions, runs and sequences, transactions, stored procedures and triggers, and performance tuning.

CouchDB: The Definitive Guide - J. Chris Anderson 2010-01-19

Three of CouchDB's creators show you how to use this document-oriented database as a standalone application framework or with high-volume, distributed applications. With its simple model for storing, processing, and accessing data, CouchDB is ideal for web applications that handle huge amounts of loosely structured data. That alone would stretch the limits of a relational database, yet CouchDB offers an open source solution that's reliable, scales easily, and responds quickly. CouchDB works with self-contained data that has loose or ad-hoc connections. It's a model that fits many real-world items, such as contacts, invoices, and receipts, but you'll discover that this database can easily handle data of any kind. With this book, you'll learn how to work with CouchDB through its RESTful web interface, and become familiar with key features such as simple document CRUD (create, read, update, delete), advanced MapReduce, deployment tuning, and more. Understand the basics of document-oriented storage and manipulation Interact with CouchDB entirely though HTTP using its RESTful interface Model data as self-contained JSON documents Handle evolving data schemas naturally Query and aggregate data in CouchDB using MapReduce views Replicate data between nodes Tune CouchDB for increased performance and reliability

Dr. Dobb's Journal - 2004-07

Pro MySQL - Jay Pipes 2006-11-22

* One of the first books to cover MySQL 5 in depth * Foregos reiteration of the basics found in other books, and concentrates on MySQL’s advanced applications in enterprise environments * Doubles as a reference for users interested in having a thorough guide to configuration directives, commands, and

features at their disposal

SQL Clearly Explained - Jan L. Harrington 2003-05-28

This is the second edition of the popular practitioner's guide to SQL, the industry-standard database query language. Like most computer languages, SQL can be overwhelming when you first see it, but for years readers have relied on this book to clear the confusion and explain how SQL works and how to use it effectively. Packed with tips, tricks, and good information, SQL Clearly Explained, Second Edition teaches database users and programmers everything they need to know to get their job done including · formulating SQL queries, · understanding how queries are processed by the DBMS, · maximizing performance, · using SQL to enter, modify, or delete data, · creating and maintaining database structural elements, and · embedding SQL in applications. Features · Updated and expanded to include changes in the SQL standard (SQL:1999) as well as recently implemented aspects of SQL-92. · Includes CD with examples from the book as well as MySQL, a popular open-source DBMS, on which the examples are based. · Web enhanced with extra features available online at www.mkp.com. * Second edition of classic SQL handbook * Updated to cover changes in the SQL language standard (SQL:1999) * Includes CD with MySQL software

T-SQL Querying - Itzik Ben-Gan 2015

T-SQL insiders help you tackle your toughest queries and query-tuning problems Squeeze maximum performance and efficiency from every T-SQL query you write or tune. Four leading experts take an in-depth look at T-SQL's internal architecture and offer advanced practical techniques for optimizing response time and resource usage. Emphasizing a correct understanding of the language and its foundations, the authors present unique solutions they have spent years developing and refining. All code and techniques are fully updated to reflect new T-SQL enhancements in Microsoft SQL Server 2014 and SQL Server 2012. Write faster, more efficient T-SQL code: Move from procedural programming to the language of sets and logic Master an efficient top-down tuning methodology Assess algorithmic complexity to predict performance Compare data aggregation techniques, including new grouping sets Efficiently perform data-analysis calculations Make the most of T-SQL's optimized bulk import tools Avoid date/time pitfalls that lead to buggy, poorly performing code Create optimized BI statistical queries without additional software Use programmable objects to accelerate queries Unlock major performance improvements with In-Memory OLTP Master useful and elegant approaches to manipulating graphs About This Book For experienced T-SQL practitioners Includes coverage updated from Inside Microsoft SQL Server 2008 T-SQL Querying and Inside Microsoft SQL Server 2008 T-SQL Programming Valuable to developers, DBAs, BI professionals, and data scientists Covers many MCSE 70-464 and MCSA/MCSE 70-461 exam topics

T-SQL Querying - Itzik Ben-Gan 2015-02-17

T-SQL insiders help you tackle your toughest queries and query-tuning problems Squeeze maximum performance and efficiency from every T-SQL query you write or tune. Four leading experts take an in-depth look at T-SQL’s internal architecture and offer advanced practical techniques for optimizing response time and resource usage. Emphasizing a correct understanding of the language and its foundations, the authors present unique solutions they have spent years developing and refining. All code and techniques are fully updated to reflect new T-SQL enhancements in Microsoft SQL Server 2014 and SQL Server 2012. Write faster, more efficient T-SQL code: Move from procedural programming to the language of sets and logic Master an efficient top-down tuning methodology Assess algorithmic complexity to predict performance Compare data aggregation techniques, including new grouping sets Efficiently perform data-analysis calculations Make the most of T-SQL’s optimized bulk import tools Avoid date/time pitfalls that lead to buggy, poorly performing code Create optimized BI statistical queries without additional software Use programmable objects to accelerate queries Unlock major performance improvements with In-Memory OLTP Master useful and elegant approaches to manipulating graphs About This Book For experienced T-SQL practitioners Includes coverage updated from Inside Microsoft SQL Server 2008 T-SQL

Querying and Inside Microsoft SQL Server 2008 T-SQL Programming Valuable to developers, DBAs, BI professionals, and data scientists Covers many MCSE 70-464 and MCSA/MCSE 70-461 exam topics

SQL Performance Tuning - Peter Gulutzan 2003

A very practical guide to making databases run faster and better. A poorly performing database application can cost each user time, and have an impact on other applications running on the same computer or the same network. This book will help DBAUs and programmers improve the performance of their databases.

XQuery Kick Start - James McGovern 2004

"XQuery Kick Start" delivers a concise introduction to the XQuery standard, and useful implementation advice for developers needing to put it into practice. The book starts by explaining the role of XQuery in the XML family of specifications, and its relationship with XPath. The authors then explain the specification in detail, describing the semantics and data model, before moving to examples using XQuery to manipulate XML databases and document storage systems. Later chapters discuss Java implementations of XQuery and development tools that facilitate the development of Web sites with XQuery. This book is up to date with the latest XQuery specifications, and includes coverage of new features for extending the XQuery language.

The Art of SQL - Stephane Faroult 2006-03-10

For all the buzz about trendy IT techniques, data processing is still at the core of our systems, especially now that enterprises all over the world are confronted with exploding volumes of data. Database performance has become a major headache, and most IT departments believe that developers should provide simple SQL code to solve immediate problems and let DBAs tune any bad SQL later. In The Art of SQL, author and SQL expert Stephane Faroult argues that this safe approach only leads to disaster. His insightful book, named after Art of War by Sun Tzu, contends that writing quick inefficient code is sweeping the dirt under the rug. SQL code may run for 5 to 10 years, surviving several major releases of the database management system and on several generations of hardware. The code must be fast and sound from the start, and that requires a firm understanding of SQL and relational theory. The Art of SQL offers best practices that teach experienced SQL users to focus on strategy rather than specifics. Faroult's approach takes a page from Sun Tzu's classic treatise by viewing database design as a military campaign. You need knowledge, skills, and talent. Talent can't be taught, but every strategist from Sun Tzu to modern-day generals believed that it can be nurtured through the experience of others. They passed on their experience acquired in the field through basic principles that served as guiding stars amid the sound and fury of battle. This is what Faroult does with SQL. Like a successful battle plan, good architectural choices are based on contingencies. What if the volume of this or that table increases unexpectedly? What if, following a merger, the number of users doubles? What if you want to keep several years of data online? Faroult's way of looking at SQL performance may be unconventional and unique, but he's deadly serious about writing good SQL and using SQL well. The Art of SQL is not a cookbook, listing problems and giving recipes. The aim is to get you-and your manager-to raise good questions.

SQL Cookbook - Anthony Molinaro 2006

A guide to SQL covers such topics as retrieving records, metadata queries, working with strings, data arithmetic, date manipulation, reporting and warehousing, and hierarchical queries.

Joe Celko's SQL Programming Style - Joe Celko 2005-05-19

Are you an SQL programmer that, like many, came to SQL after learning and writing procedural or object-oriented code? Or have switched jobs to where a different brand of SQL is being used, or maybe even been told to learn SQL yourself? If even one answer is yes, then you need this book. A "Manual of Style" for the SQL programmer, this book is a collection of heuristics and rules, tips, and tricks that will help you improve SQL programming style and proficiency, and for formatting and writing portable, readable, maintainable SQL code. Based on many years of experience consulting in SQL shops, and gathering questions and resolving his students' SQL style issues, Joe Celko can help you become an even better SQL programmer. Help you write Standard SQL without an accent or a dialect that is used in

another programming language or a specific flavor of SQL, code that can be maintained and used by other people. Enable you to give your group a coding standard for internal use, to enable programmers to use a consistent style. Give you the mental tools to approach a new problem with SQL as your tool, rather than another programming language — one that someone else might not know!

Pro SQL Server 2012 Relational Database Design and Implementation - Louis Davidson 2012-09-07

Learn effective and scalable database design techniques in a SQL Server environment. Pro SQL Server 2012 Relational Database Design and Implementation covers everything from design logic that business users will understand, all the way to the physical implementation of design in a SQL Server database. Grounded in best practices and a solid understanding of the underlying theory, Louis Davidson shows how to "get it right" in SQL Server database design and lay a solid groundwork for the future use of valuable business data. Gives a solid foundation in best practices and relational theory Covers the latest implementation features in SQL Server Takes you from conceptual design to an effective, physical implementation

Joe Celko's Trees and Hierarchies in SQL for Smarties - Joe Celko 2012-01-25

The demand for SQL information and training continues to grow with the need for a database behind every website capable of offering web-based information queries. SQL is the de facto standard for database retrieval, and if you need to access, update, or utilize data in a modern database management system, you will need SQL to do it. The Second Edition of Joe Celko's Trees and Hierarchies in SQL for Smarties covers two new sets of extensions over three entirely new chapters and expounds upon the changes that have occurred in SQL standards since the previous edition's publication. Benefit from mastering the challenging aspects of these database applications in SQL as taught by Joe Celko, one of the most-read SQL authors in the world. Expert advice from a noted SQL authority and award-winning columnist who has given 10 years of service to the ANSI SQL standards committee Teaches scores of advanced techniques that can be used with any product, in any SQL environment Offers graph theory and programming techniques for working around deficiencies and gives insight into real-world challenges

PROC SQL - Kirk Paul Lafler 2019-03-20

PROC SQL: Beyond the Basics Using SAS®, Third Edition, is a step-by-step, example-driven guide that helps readers master the language of PROC SQL. Packed with analysis and examples illustrating an assortment of PROC SQL options, statements, and clauses, this book not only covers all the basics, but it also offers extensive guidance on complex topics such as set operators and correlated subqueries. Programmers at all levels will appreciate Kirk Lafler's easy-to-follow examples, clear explanations, and handy tips to extend their knowledge of PROC SQL. This third edition explores new and powerful features in SAS® 9.4, including topics such as: IFC and IFN functions nearest neighbor processing the HAVING clause indexes It also features two completely new chapters on fuzzy matching and data-driven programming. Delving into the workings of PROC SQL with greater analysis and discussion, PROC SQL: Beyond the Basics Using SAS®, Third Edition, explores this powerful database language using discussion and numerous real-world examples.

Joe Celko's Data, Measurements and Standards in SQL - Joe Celko 2009-09-22

Joe Celko has looked deep into the code of SQL programmers and found a consistent and troubling pattern - a frightening lack of consistency between their individual encoding schemes and those of the industries in which they operate. This translates into a series of incompatible databases, each one an island unto itself that is unable to share information with others in an age of internationalization and business interdependence. Such incompatibility severely hinders information flow and the quality of company data. Data, Measurements and Standards in SQL reveals the shift these programmers need to make to overcome this deadlock. By collecting and detailing the diverse standards of myriad industries, and then giving a declaration for the units that can be used in an SQL schema, Celko enables readers to write and implement portable data that can interface to any number of external application systems! This

book doesn't limit itself to one subject, but serves as a detailed synopsis of measurement scales and data standards for all industries, thereby giving RDBMS programmers and designers the knowledge and know-how they need to communicate effectively across business boundaries. * Collects and details the diverse data standards of myriad industries under one cover, thereby creating a definitive, one-stop-shopping opportunity for database programmers. * Enables readers to write and implement portable data that can interface to any number external application systems, allowing readers to cross business boundaries and move up the career ladder. * Expert advice from one of the most-read SQL authors in the world who is well known for his ten years of service on the ANSI SQL standards committee and Readers Choice Award winning column in Intelligent Enterprise.

Pro SQL Server 2005 Database Design and Optimization - Kurt Windisch 2006-11-30

* An essential book for new and migration projects for SQL Server 2005: will ensure that that such projects have a well-designed database and secure, optimized data access strategies right from the start. * Describes all new SQL Server 2005 features related to physical database design and provides completely new chapters on designing for fast data access, and exploiting .NET code in the database for optimum distribution of application logic. * An excellent foundation for MCAD/MCSE/MCDBA Database Design and Implementation exam. * Deep experience and advice, along with many tips or tricks, from an MVP lead author with over ten years of experience with SQL Server.

The Firebird Book - Helen Borrie 2004-08-02

* This is the "official" book on FirebirdSQL—it’s being written with the support of the development and management team. * Includes an extensive set of working, real-world examples, a troubleshooting guide, and a guide to migrating existing databases to FirebirdSQL. * This is the only book on the topic; appeals to users worldwide, especially in Europe; Most people deploy Firebird on Windows.

Transact-SQL Cookbook - Aleš Špetič 2002

The Transact-SQL Cookbook contains a wealth of solutions to problems that SQL programmers face all the time. The recipes in the book range from how to perform simple tasks, such as importing external data, to how to handle more complicated issues, such as set algebra. Each recipe is followed by a discussion explaining the logic and concepts underlying the solution.

Joe Celko's SQL for Smarties - Joe Celko 2010-07-26

SQL for Smarties was hailed as the first book devoted explicitly to the advanced techniques needed to transform an experienced SQL programmer into an expert. Now, 10 years later and in the third edition, this classic still reigns supreme as the book written by an SQL master that teaches future SQL masters. These are not just tips and techniques; Joe also offers the best solutions to old and new challenges and conveys the way you need to think in order to get the most out of SQL programming efforts for both correctness and performance. In the third edition, Joe features new examples and updates to SQL-99, expanded sections of Query techniques, and a new section on schema design, with the same war-story teaching style that made the first and second editions of this book classics. Expert advice from a noted SQL authority and award-winning columnist, who has given ten years of service to the ANSI SQL standards committee and many more years of dependable help to readers of online forums. Teaches scores of advanced techniques that can be used with any product, in any SQL environment, whether it is an SQL-92 or SQL-99 environment. Offers tips for working around system deficiencies. Continues to use war stories--updated!--that give insights into real-world SQL programming challenges.

Joe Celko's Thinking in Sets: Auxiliary, Temporal, and Virtual Tables in SQL - Joe Celko 2008-01-22

Perfectly intelligent programmers often struggle when forced to work with SQL. Why? Joe Celko believes the problem lies with their procedural programming mindset, which keeps them from taking full advantage of the power of declarative languages. The result is overly complex and inefficient code, not to mention lost productivity. This book will change the way you think about the problems you solve with SQL programs.. Focusing on three key table-based techniques, Celko reveals their power through detailed examples and clear explanations. As you master

these techniques, you'll find you are able to conceptualize problems as rooted in sets and solvable through declarative programming. Before long, you'll be coding more quickly, writing more efficient code, and applying the full power of SQL • Filled with the insights of one of the world's leading SQL authorities - noted for his knowledge and his ability to teach what he knows. • Focuses on auxiliary tables (for computing functions and other values by joins), temporal tables (for temporal queries, historical data, and audit information), and virtual tables (for improved performance). • Presents clear guidance for selecting and correctly applying the right table technique.

SQL Design Patterns - Vadim Tropashko 2006

This indispensable SQL reference book is the first of its kind to leverage the benefits of design patterns to relational database SQL queries; all common SQL structures and design patterns are clearly categorized and described. Emphasizing the theoretical foundation for almost every type of SQL query problem, accompanying figures are included to help visualize the problem. Because SQL is a declarative language there are many ways to write any SQL query and professional database programmers must understand the correct way to write SQL for complicated database queries, and managers must institute formal SQL coding standards to improve productivity and maintainability. The SQL design patterns in this resource greatly improve the quality and productivity of systems development projects by forming a "best practices" foundation for all relational database queries.

Advanced Database Systems - Carlo Zaniolo 1997-05

The database field has experienced a rapid and incessant growth since the development of relational databases. The progress in database systems and applications has produced a diverse landscape of specialized technology areas that have often become the exclusive domain of research specialists. Examples include active databases, temporal databases, object-oriented databases, deductive databases, imprecise reasoning and queries, and multimedia information systems. This book provides a systematic introduction to and an in-depth treatment of these advanced database areas. It supplies practitioners and researchers with authoritative coverage of recent technological advances that are shaping the future of commercial database systems and intelligent information systems. Advanced Database Systems was written by a team of six leading specialists who have made significant contributions to the development of the technology areas covered in the book. Benefiting from the authors' long experience teaching graduate and professional courses, this book is designed to provide a gradual introduction to advanced research topics and includes many examples and exercises to support its use for individual study, desk reference, and graduate classroom teaching.

Joe Celko's Complete Guide to NoSQL - Joe Celko 2013-10-07

Joe Celko's Complete Guide to NoSQL provides a complete overview of non-relational technologies so that you can become more nimble to meet the needs of your organization. As data continues to explode and grow more complex, SQL is becoming less useful for querying data and extracting meaning. In this new world of bigger and faster data, you will need to leverage non-relational technologies to get the most out of the information you have. Learn where, when, and why the benefits of NoSQL outweigh those of SQL with Joe Celko's Complete Guide to NoSQL. This book covers three areas that make today's new data different from the data of the past: velocity, volume and variety. When information is changing faster than you can collect and query it, it simply cannot be treated the same as static data. Celko will help you understand velocity, to equip you with the tools to drink from a fire hose. Old storage and access models do not work for big data. Celko will help you understand volume, as well as different ways to store and access data such as petabytes and exabytes. Not all data can fit into a relational model, including genetic data, semantic data, and data generated by social networks. Celko will help you understand variety, as well as the alternative storage, query, and management frameworks needed by certain kinds of data. Gain a complete understanding of the situations in which SQL has more drawbacks than benefits so that you can better determine when to utilize NoSQL technologies for maximum benefit Recognize the pros and cons of columnar,

streaming, and graph databases Make the transition to NoSQL with the expert guidance of best-selling SQL expert Joe Celko

Joe Celko's SQL Puzzles and Answers - Joe Celko 2006-10-09

Joe Celko's SQL Puzzles and Answers, Second Edition, challenges you with his trickiest puzzles and then helps solve them with a variety of solutions and explanations. Author Joe Celko demonstrates the thought processes that are involved in attacking a problem from an SQL perspective to help advanced database programmers solve the puzzles you frequently face. These techniques not only help with the puzzle at hand, but also help develop the mindset needed to solve the many difficult SQL puzzles you face every day. This updated edition features many new puzzles; dozens of new solutions to puzzles; and new chapters on temporal query puzzles and common misconceptions about SQL and RDBMS that leads to problems. This book is recommended for database programmers with a good knowledge of SQL. A great collection of tricky SQL puzzles with a variety of solutions and explanations Uses the proven format of puzzles and solutions to provide a user-friendly, practical look into SQL programming problems - many of which will help users solve their own problems New edition features: Many new puzzles added!, Dozens of new solutions to puzzles, and using features in SQL-99, Code is edited to conform to SQL STYLE rules, New chapter on temporal query puzzles, New chapter on common misconceptions about SQL and RDBMS that leads to problems

Pro SQL Server Relational Database Design and Implementation - Louis Davidson 2016-12-29

Learn effective and scalable database design techniques in a SQL Server 2016 and higher environment. This book is revised to cover in-memory online transaction processing, temporal data storage, row-level security, durability enhancements, and other design-related features that are new or changed in SQL Server 2016. Designing an effective and scalable database using SQL Server is a task requiring skills that have been around for forty years coupled with technology that is constantly changing. Pro SQL Server Relational Database Design and Implementation covers everything from design logic that business users will understand, all the way to the physical implementation of design in a SQL Server database. Grounded in best practices and a solid understanding of the underlying theory, Louis Davidson shows how to "get it right" in SQL Server database design and lay a solid groundwork for the future use of valuable business data. The pace of change in relational database management systems has been tremendous these past few years. Whereas in the past it was enough to think about optimizing data residing on spinning hard drives, today one also must consider solid-state storage as well as data that are constantly held in memory and never written to disk at all except as a backup. Furthermore, there is a trend toward hybrid cloud and on-premise database configurations as well a move toward preconfigured appliances. Pro SQL Server Relational Database Design and Implementation guides in the understanding of these massive changes and in their application toward sound database design. Gives a solid foundation in best practices and relational theory Covers the latest implementation features in SQL Server 2016 Helps you master in-memory OLTP and use it effectively Takes you from conceptual design to an effective, physical implementation What You Will Learn Develop conceptual models of client data using interviews and client documentation Recognize and apply common database design patterns Normalize data models to enhance scalability and the long term use of valuable data Translate conceptual models into high–performing SQL Server databases Secure and protect data integrity as part of meeting regulatory requirements Create effective indexing to speed query performance Who This Book Is For Programmers and database administrators of all types who want to use SQL Server to store data. The book is especially useful to those wanting to learn the very latest design features in SQL Server 2016, features that include an improved approach to in-memory OLTP, durability enhancements, temporal data support, and more. Chapters on fundamental concepts, the language of database modeling, SQL implementation, and of course, the normalization process, lay a solid groundwork for readers who are just entering the field of database design. More advanced chapters serve the seasoned veteran by tackling the very latest

in physical implementation features that SQL Server has to offer. The book has been carefully revised to cover all the design-related features that are new in SQL Server 2016.

Oracle Internals - Donald K. Burleson 2017-07-27

If you are a typical Oracle professional, you don't have the luxury of time to keep up with new technology and read all the new manuals to understand each new feature of the latest release from Oracle. You need a comprehensive source of information and in-depth tips and techniques for using the new technology. You need Oracle Internals: Tips, Trick