Foreword by Tobias Ternström
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Microsoft

Microsoft SQL Server 2012 High-Performance T-SQL Using Window Functions

Itzik Ben-Gan

Microsoft Sql Server 2012 High Performance T Sql Using Window Functions Developer Reference

Jin-Ying Zhang

Microsoft Sql Server 2012 High Performance T Sql Using Window Functions Developer Reference:
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 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 Unleashed* Ray Rankins,Paul Bertucci,Chris Gallelli,Alex T. Silverstein,2013-12-09 Buy the print version of Microsoft SQL Server 2012 Unleashed and get the eBook version for free eBook version includes chapters 44 60 not included in the print See inside the book for access code and details With up to the minute content this is the industry s most complete useful guide to SQL Server 2012 You ll find start to finish coverage of SQL Server s core database server and management capabilities all the real world information tips guidelines and samples you ll need to create and manage complex database solutions The additional online chapters add extensive coverage of SQL Server Integration Services Reporting Services Analysis Services T SQL programming NET Framework integration and much more Authored by four expert SQL Server administrators designers developers architects and consultants this book reflects immense experience with SQL Server in production environments Intended for intermediate to advanced level SQL Server professionals it focuses on the product s

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across the enterprise **Healthy SQL** Robert Pearl,2015-06-01 Robert Pearl a well known DBA in the SQL community explains his holistic vision of a database instance that needs regular check ups and gives the tools scripts and best practices he has collected over the years Alberto Bolchini Computing Reviews May 9 2016 Healthy SQL is about ensuring the ongoing performance health of a SQL Server database An unhealthy database is not just an inconvenience it can bring a business to its knees And if you are the database administrator the health of your SQL Server implementation can be a direct reflection on you It s in everyone s best interest to have a healthy SQL implementation Healthy SQL is built around the concept of a medical checkup giving you the tools you need to assess the current health of your database and take action to improve upon that health and maintain good performance to your business Healthy SQL aids in developing a rigorous routine so that you know how healthy your SQL Servermachines are and how you can keep those same servers healthy and fit for duty The book is filled with practical advice and a time tested strategy helping you put together a regimen that will ensure your servers are healthy your implementation is fully optimized your services are redundant and highly available and you have a plan for business continuity in the event of a disaster If your current environment doesn t match up with these criteria then pick up a copy of Healthy SQL today and start your journey on the road to a fit and tight SQL Server deployment **Expert T-SQL Window Functions in SQL Server 2019** Kathi Kellenberger,Clayton Groom,Ed Pollack,2019-10-21 Become an expert who can use window functions to solve T SQL query problems Replace slow cursors and self joins with queries that are easy to write and perform better This new edition provides expanded examples including a chapter from the world of sports and covers the latest performance enhancements through SQL Server 2019 Window functions are useful in analytics and business intelligence reporting They came into full blossom with SQL Server 2012 yet they are not as well known and used as often as they ought to be This group of functions is one of the most notable developments in SQL and this book shows how every developer and DBA can benefit from their expressive power in solving day to day business problems Once you begin using window functions such as ROW_NUMBER and LAG you will discover many ways to use them You will approach SQL Server queries in a different way thinking about sets of data instead of individual rows Your querieswill run faster be easier to write and easier to deconstruct maintain and enhance in the future Just knowing and using these functions is not enough You also need to understand how to tune the queries Expert T SQL Window Functions in SQL Server clearly explains how to get the best performance The book also covers the rare cases when older techniques are the best bet What You Will Learn Solve complex query problems without cumbersome self joins that run slowly and are difficult to read Create sliding windows in a result set for computing such as running totals and moving averages Return aggregate and detail data simultaneously from the same SELECT statement Compute lag and lead and other values that access data from multiple rows in a result set Understand the OVER clause syntax and how to control the window Avoid framing errors that can lead to unexpected results Who This Book Is For Anyone who writes T SQL queries including database administrators developers business analysts and

data scientists Before reading this book you should understand how to join tables write WHERE clauses and build aggregate queries   *T-SQL Window Functions* Itzik Ben-Gan,2019-10-18 Use window functions to write simpler better more efficient T SQL queries Most T SQL developers recognize the value of window functions for data analysis calculations But they can do far more and recent optimizations make them even more powerful In T SQL Window Functions renowned T SQL expert Itzik Ben Gan introduces breakthrough techniques for using them to handle many common T SQL querying tasks with unprecedented elegance and power Using extensive code examples he guides you through window aggregate ranking distribution offset and ordered set functions You ll find a detailed section on optimization plus an extensive collection of business solutions including novel techniques available in no other book Microsoft MVP Itzik Ben Gan shows how to Use window functions to improve queries you previously built with predicates Master essential SQL windowing concepts and efficiently design window functions Effectively utilize partitioning ordering and framing Gain practical in depth insight into window aggregate ranking offset and statistical functions Understand how the SQL standard supports ordered set functions and find working solutions for functions not yet available in the language Preview advanced Row Pattern Recognition RPR data analysis techniques Optimize window functions in SQL Server and Azure SQL Database making the most of indexing parallelism and more Discover a full library of window function solutions for common business problems About This Book For developers DBAs data analysts data scientists BI professionals and power users familiar with T SQL queries Addresses any edition of the SQL Server 2019 database engine or later as well as Azure SQL Database Get all code samples at MicrosoftPressStore com TSQLWindowFunctions downloads   **Build Windows 8 Apps with Microsoft Visual C++ Step by Step** Luca Regnicoli,Paolo Pialorsi,Roberto Brunetti,2013-04-15 Your hands on step by step guide to building Windows 8 apps with Microsoft Visual C Teach yourself how to build Windows 8 applications using the Visual C language one step at a time Ideal for those with intermediate to advanced C development skills this tutorial provides practical learn by doing exercises for creating apps that can adapt to different screen sizes including desktop and laptop computers tablets and slates Discover how to Build apps using Windows 8 design guidelines Explore the Windows 8 application architecture Apply tools and libraries from Microsoft Visual Studio and the Windows 8 SDK Use XAML to create touch optimized user interfaces Create apps that make use of device sensors Manage the Windows 8 application lifecycle Prepare your app for the Windows Store   *Expert T-SQL Window Functions in SQL Server* Kathi Kellenberger,Clayton Groom,2015 Expert T SQL Window Functions in SQL Server takes you from any level of knowledge of windowing functions and turns you into an expert who can use these powerful functions to solve many T SQL queries Replace slow cursors and self joins with queries that are easy to write and fantastically better performing all through the magic of window functions First introduced in SQL Server 2005 window functions came into full blossom with SQL Server 2012 They truly are one of the most notable developments in SQL in a decade and every developer and DBA can benefit from their expressive power in solving day to day business problems

Begin using windowing functions like ROW_NUMBER and LAG and you will discover more ways to use them every day You will approach SQL Server queries in a different way thinking about sets of data instead of individual rows Your queries will run faster they will be easier to write and they will be easier to deconstruct and maintain and enhance in the future Just knowing and using these functions is not enough You also need to understand how to tune the queries Expert T SQL Window Functions in SQL Server explains clearly how to get the best performance The book also covers the rare cases when older techniques are the best bet Stop using cursors and self joins to solve complicated queries Become a T SQL expert by mastering windowing functions Teaches you how to use all the window functions introduced in 2005 and 2012 Provides real world examples that you can experiment with in your own database Explains how to get the best performance when using windowing functions *Professional Microsoft SQL Server 2012 Administration* Adam Jorgensen,Steven Wort,Ross LoForte,Brian Knight,2012-03-28 An essential how to guide for experienced DBAs on the most significant product release since 2005 Microsoft SQL Server 2012 will have major changes throughout the SQL Server and will impact how DBAs administer the database With this book a team of well known SQL Server experts introduces the many new features of the most recent version of SQL Server and deciphers how these changes will affect the methods that administrators have been using for years Loaded with unique tips tricks and workarounds for handling the most difficult SQL Server admin issues this how to guide deciphers topics such as performance tuning backup and recovery scaling and replication clustering and security Serves as a must have how to guide on the new features of the 2012 release of Microsoft SQL Server Walks you through ways to manage and monitor SQL Server and automate administration Guides you through SQL Azure for cloud computing data replication and data warehouse performance improvements Addresses client connectivity enhancements new features that ensure high availability of mission critical applications and tighter integration with Excel and SharePoint for data analysis and reporting Highlights major changes to the suite of SQL Server BI tools including integration reporting and analysis services Includes real world case examples and best practices from Microsoft insiders If you re a database administrator eager to get started with the newest version of SQL Server then this book is essential reading **PC Magazine** ,1986 **Microsoft SQL Server 2012 Bible** Adam Jorgensen,Jorge Segarra,Patrick LeBlanc,Jose Chinchilla,Aaron Nelson,2012-08-06 Harness the powerful new SQL Server 2012 Microsoft SQL Server 2012 is the most significant update to this product since 2005 and it may change how database administrators and developers perform many aspects of their jobs If you re a database administrator or developer Microsoft SQL Server 2012 Bible teaches you everything you need to take full advantage of this major release This detailed guide not only covers all the new features of SQL Server 2012 it also shows you step by step how to develop top notch SQL Server databases and new data connections and keep your databases performing at peak The book is crammed with specific examples sample code and a host of tips workarounds and best practices In addition downloadable code is available from the book s companion web site which you can use to jumpstart

your own projects Serves as an authoritative guide to Microsoft s SQL Server 2012 for database administrators and developers Covers all the software s new features and capabilities including SQL Azure for cloud computing enhancements to client connectivity and new functionality that ensures high availability of mission critical applications Explains major new changes to the SQL Server Business Intelligence tools such as Integration Reporting and Analysis Services Demonstrates tasks both graphically and in SQL code to enhance your learning Provides source code from the companion web site which you can use as a basis for your own projects Explores tips smart workarounds and best practices to help you on the job Get thoroughly up to speed on SQL Server 2012 with Microsoft SQL Server 2012 Bible **Microsoft SQL Server 2012 T-SQL Fundamentals** Itzik Ben-Gan,2012-07-15 Gain a solid understanding of T SQL and write better queries Master the fundamentals of Transact SQL and develop your own code for querying and modifying data in Microsoft SQL Server 2012 Led by a SQL Server expert you ll learn the concepts behind T SQL querying and programming and then apply your knowledge with exercises in each chapter Once you understand the logic behind T SQL you ll quickly learn how to write effective code whether you re a programmer or database administrator Discover how to Work with programming practices unique to T SQL Create database tables and define data integrity Query multiple tables using joins and subqueries Simplify code and improve maintainability with table expressions Implement insert update delete and merge data modification strategies Tackle advanced techniques such as window functions pivoting and grouping sets Control data consistency using isolation levels and mitigate deadlocks and blocking Take T SQL to the next level with programmable objects **SQL Server 2012 T-SQL Recipes** Jason Brimhall,David Dye,Timothy Roberts,Wayne Sheffield,Jonathan Gennick,Joseph Sack,2012-10-15 SQL Server 2012 T SQL Recipes is an example based guide to the Transact SQL language that is at the core of SQL Server 2012 It provides ready to implement solutions to common programming and database administration tasks Learn to create databases insert and update data generate reports secure your data and more Tasks and their solutions are broken down into a problem solution format that is quick and easy to read so that you can get the job done fast when the pressure is on Solutions in this book are divided into chapters by problem domain Each chapter is a collection of solutions around a single facet of the language such as writing queries developing triggers and applying aggregate functions Each solution is presented code first giving you a working code example to copy from and implement immediately in your own environment Following each example is an in depth description of how and why the given solution works Tradeoffs and alternative approaches are also discussed Focused on solutions Look up what you need to do Learn how to do it Do it Current Newly updated for SQL Server 2012 Comprehensive Covers all common T SQL problem domains **Beginning T-SQL with Microsoft SQL Server 2005 and 2008** Paul Turley,Dan Wood,2011-01-06 If you ve not programmed with Transact SQL this book is for you It begins with an overview of SQL Server query operations and tools used with T SQL and covers both the 2005 and 2008 releases of SQL Server query tools and the query editor The book then moves to show you how to design and build applications of increasing

complexity Other important tasks covered include full text indexing optimizing query performance and application design and security considerations The companion website also provides all of the code examples from the book   Professional Microsoft SQL Server 2012 Analysis Services with MDX and DAX Sivakumar Harinath,Ronald Pihlgren,Denny Guang-Yeu Lee,John Sirmon,Robert M. Bruckner,2012-10-06 Understand Microsoft s dramatically updated new release of its premier toolset for business intelligence The first major update to Microsoft s state of the art complex toolset for business intelligence BI in years is now available and what better way to master it than with this detailed book from key members of the product s development team If you re a database or data warehouse developer this is the expert resource you need to build full scale multi dimensional database applications using Microsoft s new SQL Server 2012 Analysis Services and related tools Discover how to solve real world BI problems by leveraging a slew of powerful new Analysis Services features and capabilities These include the new DAX language which is a more user friendly version of MDX PowerPivot a new tool for performing simplified analysis of data BISM Microsoft s new Business Intelligence Semantic Model and much more Serves as an authoritative guide to Microsoft s new SQL Server 2012 Analysis Services BI product and is written by key members of the Microsoft Analysis Services product development team Covers SQL Server 2012 Analysis Services a major new release with a host of powerful new features and capabilities Topics include using the new DAX language a simplified more user friendly version of MDX PowerPivot a new tool for performing simplified analysis of data BISM Microsoft s new Business Intelligence Semantic Model and a new yet to be named BI reporting tool Explores real world scenarios to help developers build comprehensive solutions Get thoroughly up to speed on this powerful new BI toolset with the timely and authoritative Professional Microsoft SQL Server 2012 Analysis Services with MDX   **Microsoft SQL Server 2012 Step by Step** Patrick LeBlanc,2013-02-15 Your hands on step by step guide to building applications with Microsoft SQL Server 2012 Teach yourself the programming fundamentals of SQL Server 2012 one step at a time Ideal for beginning SQL Server database administrators and developers this tutorial provides clear guidance and practical learn by doing exercises for building database solutions that solve real world business problems Discover how to Install and work with core components and tools Create tables and index structures Manipulate and retrieve data Secure manage back up and recover databases Apply techniques for building high performing applications Use clustering database mirroring and log shipping   **Beginning Microsoft SQL Server 2012 Programming** Paul Atkinson,Robert Vieira,2012-04-16 Get up to speed on the extensive changes to the newest release of Microsoft SQL Server The 2012 release of Microsoft SQL Server changes how you develop applications for SQL Server With this comprehensive resource SQL Server authority Robert Vieira presents the fundamentals of database design and SQL concepts and then shows you how to apply these concepts using the updated SQL Server Publishing time and date with the 2012 release Beginning Microsoft SQL Server 2012 Programming begins with a quick overview of database design basics and the SQL query language and then quickly proceeds to show you how to implement the fundamental concepts of Microsoft

SQL Server 2012 You ll explore the key additions and changes to this newest version including conditional action constructs enhanced controls for results paging application integration with SharePoint and Excel and development of BI applications Covers new features such as SQL Azure for cloud computing client connectivity enhancements security and compliance data replication and data warehouse performance improvements Addresses essential topics including managing keys writing scripts and working with store procedures Shares helpful techniques for creating and changing tables programming with XML and using SQL Server Reporting and Integration Services Beginning Microsoft SQL Server 2012 Programming demystifies even the most difficult challenges you may face with the new version of Microsoft SQL Server *SQL Server T-SQL Recipes* David Dye,Jason Brimhall,Timothy Roberts,Wayne Sheffield,Joseph Sack,Jonathan Gennick,2015-07-17 SQL Server T SQL Recipes is an example based guide to the Transact SQL language that is at the core of SQL Server This edition has been lightly updated for SQL Server 2014 and provides ready to implement solutions to common programming and database administration tasks Learn to create databases create in memory tables and stored procedures insert and update data generate reports secure your data and more Tasks and their solutions are broken down into a problem solution format that is quick and easy to read so that you can get the job done fast when the pressure is on Solutions in this book are divided into chapters by problem domain Each chapter is a collection of solutions around a single facet of the language such as writing queries managing indexes error handling and query performance Each solution is presented code first giving you a working code example to copy from and implement immediately in your own environment Following each example is an in depth description of how and why the given solution works Tradeoffs and alternative approaches are also discussed Focused on solutions Look up what you need to do Learn how to do it Do it Current Lightly updated for SQL Server 2014 Comprehensive Covers all common T SQL problem domains

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