



Expert T-SQL Window Functions in SQL Server 2019

The Hidden Secret to Fast Analytic and
Reporting Queries

Second Edition

Kathi Kellenberger
Clayton Groom
Ed Pollack

apress®

Expert T Sql Window Functions In Sql Server

Donna Wallace



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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 queries will 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

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 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](https://microsoftpressstore.com/TSQLWindowFunctions/downloads) **Expert T-SQL Window Functions in SQL Server** Kathi Kellenberger,Clayton Groom,2015-03-28 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 **T-SQL Querying** Itzik Ben-Gan,Dejan Sarka,Adam Machanic,Kevin Farlee,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

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Table of Contents Expert T Sql Window Functions In Sql Server

1. Understanding the eBook Expert T Sql Window Functions In Sql Server
 - The Rise of Digital Reading Expert T Sql Window Functions In Sql Server
 - Advantages of eBooks Over Traditional Books
2. Identifying Expert T Sql Window Functions In Sql Server
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Expert T Sql Window Functions In Sql Server
 - User-Friendly Interface
4. Exploring eBook Recommendations from Expert T Sql Window Functions In Sql Server
 - Personalized Recommendations
 - Expert T Sql Window Functions In Sql Server User Reviews and Ratings
 - Expert T Sql Window Functions In Sql Server and Bestseller Lists

5. Accessing Expert T Sql Window Functions In Sql Server Free and Paid eBooks
 - Expert T Sql Window Functions In Sql Server Public Domain eBooks
 - Expert T Sql Window Functions In Sql Server eBook Subscription Services
 - Expert T Sql Window Functions In Sql Server Budget-Friendly Options
6. Navigating Expert T Sql Window Functions In Sql Server eBook Formats
 - ePub, PDF, MOBI, and More
 - Expert T Sql Window Functions In Sql Server Compatibility with Devices
 - Expert T Sql Window Functions In Sql Server Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Expert T Sql Window Functions In Sql Server
 - Highlighting and Note-Taking Expert T Sql Window Functions In Sql Server
 - Interactive Elements Expert T Sql Window Functions In Sql Server
8. Staying Engaged with Expert T Sql Window Functions In Sql Server
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Expert T Sql Window Functions In Sql Server
9. Balancing eBooks and Physical Books Expert T Sql Window Functions In Sql Server
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Expert T Sql Window Functions In Sql Server
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Expert T Sql Window Functions In Sql Server
 - Setting Reading Goals Expert T Sql Window Functions In Sql Server
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Expert T Sql Window Functions In Sql Server
 - Fact-Checking eBook Content of Expert T Sql Window Functions In Sql Server
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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