



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

Jin-Ying Zhang



Expert T Sql Window Functions In Sql Server:

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

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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

Use Window Functions To Write Simpler, Better, More Efficient T-SQL Queries Donna Wallace,2022-08-13 Usage home window works to compose less complex better much more effective T SQL queriesMost T SQL developers recognize the value of window features for information evaluation calculations But they can do far more as well as recent optimizations make them much more powerful In T SQL Home window Functions prominent T SQL expert Itzik Ben Gan introduces innovation strategies for utilizing them to take care of many common T SQL querying jobs with unprecedented sophistication as well as power Making use of considerable code examples he guides you with home window accumulation ranking distribution countered as well as got established functions You ll find a detailed section on optimization plus a considerable collection of service solutions consisting of novel strategies available in nothing else book Microsoft MVP Itzik Ben Gan shows how to Usage home window functions to enhance queries you previously constructed with predicates Master essential SQL windowing principles and also efficiently design window features Efficiently utilize partitioning ordering as well as framing Gain sensible thorough insight right into window aggregate ranking offset and statistical features Understand exactly how the SQL requirement supports gotten established features and find functioning options for features not yet offered in the language Preview advanced Row Pattern Recognition RPR information analysis

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