

# SQL Window Function Overview

	BusinessEntityID	TerritoryID	SalesYTD	(No column name)
1	274	NULL	589697.5638	589697.5638
2	285	NULL	172524.4512	732222.0151
3	287	NULL	519905.932	1252127.9471
4	280	1	1352577.1328	1352577.1328
5	283	1	1573012.9383	2925590.0708
6	284	1	1576562.1966	4502152.2674
7	275	2	3763178.1787	3763178.1787
8	277	3	3189418.3662	3189418.3662
9	276	4	4251368.5497	4251368.5497
10	281	4	2458535.6168	6709904.1666
11	279	5	2315185.611	2315185.611
12	278	6	1453719.4653	1453719.4653
13	282	6	2604540.7172	4058260.1825
14	290	7	3121616.3202	3121616.3202
15	288	8	1827066.7118	1827066.7118
16	286	9	1421810.9242	1421810.9242
17	289	10	4116871.2277	4116871.2277

```
SELECT BusinessEntityID
, TerritoryID
, SalesYTD
```

OVER makes SUM a window function.

SUM(SalesYTD) OVER

(PARTITION BY TerritoryID

ORDER BY BusinessEntityID)

```
FROM Sales.SalesPerson
ORDER BY TerritoryID
```

Window Frame: Rows from start of partition up to current row plus equal rows according to ORDER BY

1352577.1 + 1573012.9 = 2925590.0

Partition for every new TerritoryID

Total Resets at Partition

# How To Use Window Functions In Sql Server Sql Shack

**Donna Wallace**



## **How To Use Window Functions In Sql Server Sql Shack:**

*PC Magazine*, 1997-08      **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 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 **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 **SQL Server Analytical Toolkit** Angelo Bobak, 2023-10-02 Learn window function foundational concepts through a cookbook style approach beginning with an introduction to the OVER clause its various configurations in terms of how partitions and window frames are created and how data is sorted in the partition so that the window function can operate on the partition data sets You will build a toolkit based not only on the window functions but also on the performance tuning tools use of Microsoft Excel to graph results and future tools you can learn such as PowerBI SSIS and SSAS to enhance your data architecture skills This book goes beyond just showing how each function works It presents four unique use case scenarios sales financial engineering and inventory control related to statistical analysis data analysis and BI Each section is covered in three chapters one chapter for each of the window aggregate ranking and analytical function categories Each chapter includes several TSQL code examples and is reinforced with graphic output plus Microsoft Excel graphs created from the query output SQL Server estimated query plans are generated and described so you can see how SQL Server processes the query These together with IO TIME and PROFILE statistics are used to performance tune the query You will

know how to use indexes and when not to use indexes You will learn how to use techniques such as creating report tables memory enhanced tables and creating clustered indexes to enhance performance And you will wrap up your learning with suggested steps related to business intelligence and its relevance to other Microsoft Tools such as Power BI and Analysis Services All code examples including code to create and load each of the databases are available online What You Will Learn Use SQL Server window functions in the context of statistical and data analysis Re purpose code so it can be modified for your unique applications Study use case scenarios that span four critical industries Get started with statistical data analysis and data mining using TSQL queries to dive deep into data Study discussions on statistics how to use SSMS SSAS performance tuning and TSQL queries using the OVER clause Follow prescriptive guidance on good coding standards to improve code legibility Who This Book Is For Intermediate to advanced SQL Server developers and data architects Technical and savvy business analysts who need to apply sophisticated data analysis for their business users and clients will also benefit This book offers critical tools and analysis techniques they can apply to their daily job in the disciplines of data mining data engineering and business intelligence

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