www.PragimTech.com

Pragim@PragimTech.com

SQL Server Tutorial

Part 112 - Calculate running total in SQL Server 2012

Venkat
PRAGIM Technologies
kudvenkat@gmail.com
http://csharp-video-tutorials.blogspot.com

PragimTech.com | facebook.com/pragimtech | twitter.com/kudvenkat | 91 99456 99393



In this session we will learn

How to calculate running total in SQL Server 2012 and later versions

Link to Dot Net Basics, ASP.NET, C#, ADO.NET and SQL Server video series http://www.youtube.com/user/kudvenkat/playlists

Suggested Videos

Part 109 - Row_Number function in SQL Server

Part 110 - RANK and DENSE_RANK in SQL Server

Part 111 - Difference between rank dense_rank and row_number in SQL

PragimTech.com | facebook.com/pragimtech | twitter.com/kudvenkat | 91 99456 99393

http://csharp-video-tutorials.blogspot.com

Running Total in SQL Server 2012

If you are in need of the DVD with all the videos and PPT's, please visit http://pragimtech.com/order.aspx

SQL Query to compute running total without partitions

Id	Name	Gender	Salary
1	Mark	Male	5000
2	John	Male	4500
3	Pam	Female	5500
4	Sara	Female	4000
5	Todd	Male	3500
6	Mary	Female	5000
7	Ben	Male	6500
8	Jodi	Female	7000
9	Tom	Male	5500
10	Ron	Male	5000

	Name	Gender	Salary	Ru	nningTo	tal
	Mark	Male	5000		5000	
	John	Male	4500		9500	
	Pam	Female	5500		15000	
>	Sara Female		4000		19000	
	Todd Male		3500		22500	
	Mary	Female	5000		27500	
	Ben	Male	6500		34000	
	Jodi Female		7000		41000	
	Tom	Male	5500		46500	
	Ron	Male	5000		51500	

SELECT Name, Gender, Salary,
SUM(Salary) OVER (ORDER BY ID) AS RunningTotal
FROM Employees

PragimTech.com | facebook.com/pragimtech | twitter.com/kudvenkat | 91 99456 99393

http://csharp-video-tutorials.blogspot.com

Running Total in SQL Server 2012

SQL Query to compute running total with partitions

Id	Name	Gender	Salary
1	Mark	Male	5000
2	John	Male	4500
3	Pam	Female	5500
4	Sara	Female	4000
5	Todd	Male	3500
6	Mary	Female	5000
7	Ben	Male	6500
8	Jodi	Female	7000
9	Tom	Male	5500
10	Ron	Male	5000

	Name	Gender	Salary	Rur	nningTo	otal
	Pam	Female	5500		5500	
*	Sara	Female	4000		9500	
	Mary	Female	5000		14500	
	Jodi	Female	7000		21500	
	Mark Male		5000		5000	
	John	Male	4500		9500	
	Todd	Male	3500		13000	
	Ben	Male	6500		19500	
	Tom	Male	5500		25000	
	Ron	Male	5000		30000	

```
SELECT Name, Gender, Salary,
SUM(Salary) OVER (PARTITION BY Gender ORDER BY ID) AS RunningTotal
FROM Employees
```

PragimTech.com | facebook.com/pragimtech | twitter.com/kudvenkat | 91 99456 99393

http://csharp-video-tutorials.blogspot.com

Running Total in SQL Server 2012

What happens if I use order by on Salary column

If you have duplicate values in the Salary column, all the duplicate values will be added to the running total at once. In the example below notice that we have 5000 repeated 3 times. So 15000 (i.e 5000 + 5000 + 5000) is added to the running total at once

Id	Name	Gender	Salary
1	Mark	Male	5000
2	John	Male	4500
3	Pam	Female	5500
4	Sara	Female	4000
5	Todd	Male	3500
6	Mary	Female	5000
7	Ben	Male	6500
8	Jodi	Female	7000
9	Tom	Male	5500
10	Ron	Male	5000

	Name	Gender	S	alary	RunningTota	al
	Todd	Male		3500	3500	
	Sara	Female		4000	7500	
	John	Male		4500	12000	
→	Mark	Male		5000	27000	
	Mary	Female		5000	27000	
	Ron	Male		5000	27000	
	Tom	Male		5500	38000	
	Pam	Female		5500	38000	
	Ben	Male		6500	44500	
	Jodi	Female		7000	51500	

SELECT Name, Gender, Salary,
SUM(Salary) OVER (ORDER BY Salary) AS RunningTotal
FROM Employees

So when computing running total, it is better to use a column that has unique data in the ORDER BY clause.



PragimTech.com | facebook.com/pragimtech | twitter.com/kudvenkat | 91 99456 99393 http://csharp-video-tutorials.blogspot.com

Additional Resources

PRAGIM Home Page:

www.PragimTech.com

Resources:

C#, ADO.NET, ASP.NET, SQL Server & MVC youtube Playlists http://www.youtube.com/user/kudvenkat/playlists

Code samples and text version of all the videos on my blog http://www.csharp-video-tutorials.blogspot.com

To receive email alerts when new videos are uploaded, please subscribe to my YOUTUBE channel www.YouTube.com/kudvenkat

https://twitter.com/kudvenkat

