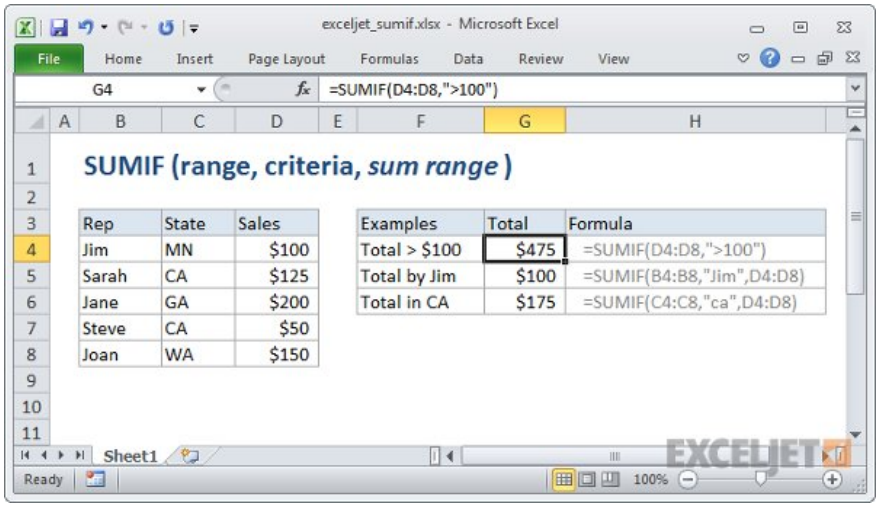
How to use the SUMIF function in Excel

The SUMIF function in Excel is a function used to compute values ??in a specified range. The SUMIF function can be used for summing cells based on the date, data and text that are connected to the specified area.

Introduce

The SUMIF function is a function used to sum values ??in a specified range. The SUMIF function can be used for summing cells based on the date, data and text that are connected to the specified area. This function supports logical operations (>, , >, =) and symbols (*,?) To suit each section.



Purpose

Sum the numbers in the range that meet the criteria provided.

Search for value

Total value provided.

Syntax

= SUMIF (range, criteria, [sum_range])

Parameters

Range : Range of cells you want to evaluate according to criteria. The cells in each range must be numbers or names, arrays or references containing numbers. Empty values ??and text values ??are ignored. The selected range may contain dates in the standard Excel format.

Criteria : Criteria for determining added values.

Sum_range : (optional) Values ??are appended. If *sum_range* is removed, the cells in the scope of the evaluation will be replaced.

Attention

1. When *sum_range* is ignored, cells in the range will be added.
2. A defined area containing mathematical symbols or symbols must be enclosed in quotation marks.
3. The range of numeric format that can be supplied is the number that will not have to use parentheses.
4. The characters?and * can all be used in Criteria.A question mark matches any single character;an asterisk matches any character string.If you want to find a real question mark or asterisk, type the tilde (~) before the character.

How to use SUMIF in Excel

Let's explore the SUMIF calculation.

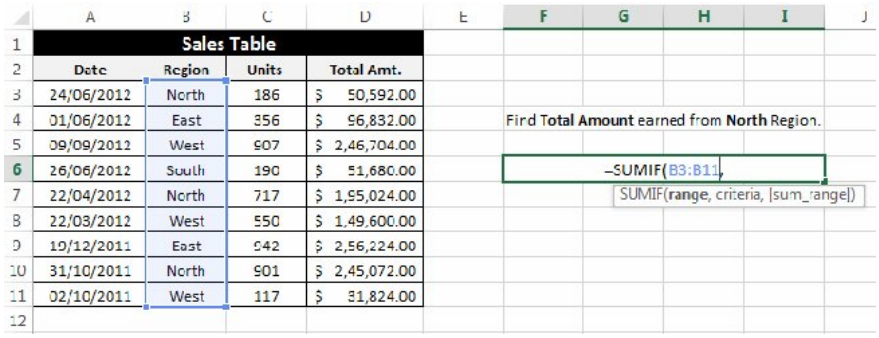
Suppose we have the following revenue table:

	A	B	C	D	E
1	Sales Table				
2	Date	Region	Units	Total Amt.	
3	24/06/2012	North	186	$ 50,592.00	
4	01/06/2012	East	356	$ 96,832.00	
5	09/09/2012	West	907	$ 2,46,704.00	
6	26/06/2012	South	190	$ 51,680.00	
7	22/04/2012	North	717	$ 1,95,024.00	
8	22/03/2012	West	550	$ 1,49,600.00	
9	19/12/2011	East	942	$ 2,56,224.00	
10	31/10/2011	North	901	$ 2,45,072.00	
11	02/10/2011	West	117	$ 31,824.00	
12					

Exercise : To find the total revenue of the northern region.

Try applying the SUMIF function to solve the problem.

Range : Select the column containing "North"



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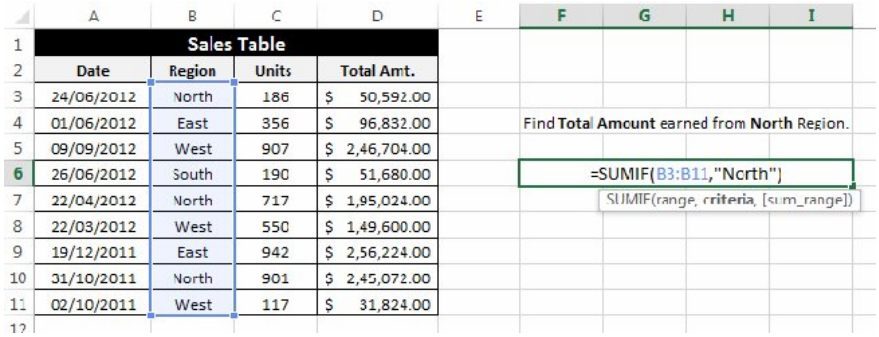
9	19/12/2011	East	942	$ 2,56,224.00
10	31/10/2011	North	901	$ 2,45,072.00
11	02/10/2011	West	117	$ 31,824.00
12				

Find **Total Amount** earned from **North** Region.

=SUMIF(B3:B11,

SUMIF(**range**, criteria, [sum_range])

Criteria : Enter the "North" area - North. Note: Entering "North" or "= North" is fine.



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1	Sales Table			
2	Date	Region	Units	Total Amt.
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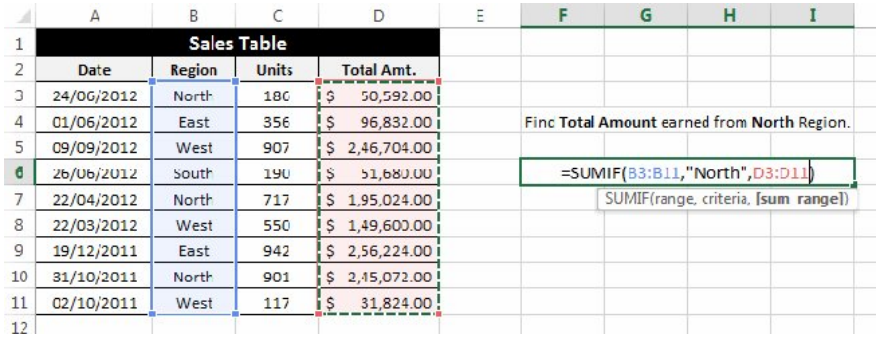
11	02/10/2011	West	117	$ 31,824.00
12				

Find **Total Amount** earned from **North** Region.

=SUMIF(B3:B11,"North")

SUMIF(range, **criteria**, [sum_range])

Sum_range : Select the column to be added after evaluating the criteria.



	A	B	C	D
1	Sales Table			
2	Date	Region	Units	Total Amt.
3	24/06/2012	North	186	$ 50,592.00
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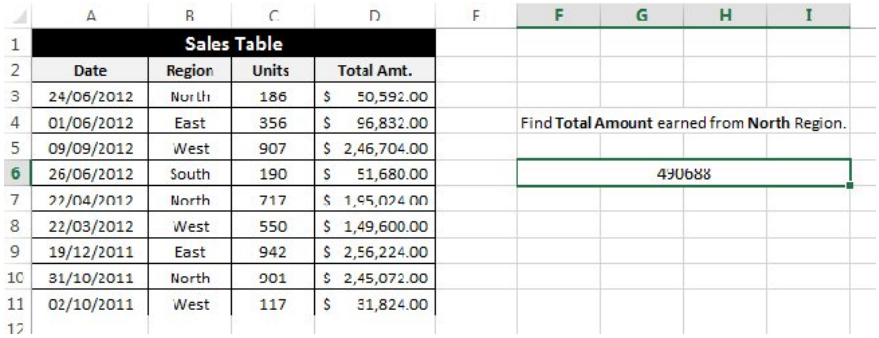
11	02/10/2011	West	117	$ 31,824.00
12				

Find **Total Amount** earned from **North** Region.

=SUMIF(B3:B11,"North",D3:D11)

SUMIF(range, criteria, **[sum_range]**)

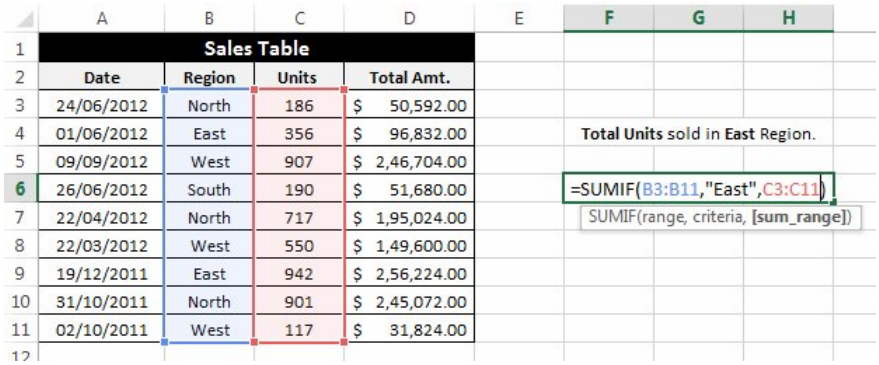
After applying this calculation, our results are 490688, the sum of D3, D7, D10.



	A	B	C	D	F	F	G	H	I
1	Sales Table								
2	Date	Region	Units	Total Amt.					
3	24/06/2012	North	186	$ 50,592.00					
4	01/06/2012	East	356	$ 96,832.00		Find **Total Amount** earned from **North** Region.			
5	09/09/2012	West	907	$ 2,46,704.00					
6	26/06/2012	South	190	$ 51,680.00		490688			
7	22/04/2012	North	717	$ 1,95,024.00					
8	22/03/2012	West	550	$ 1,49,600.00					
9	19/12/2011	East	942	$ 2,56,224.00					
10	31/10/2011	North	901	$ 2,45,072.00					
11	02/10/2011	West	117	$ 31,824.00					
12									

A few examples of SUMIF

Example 1: Suppose there is a table as follows and we need to find the total quantity sold in the Eastern region.

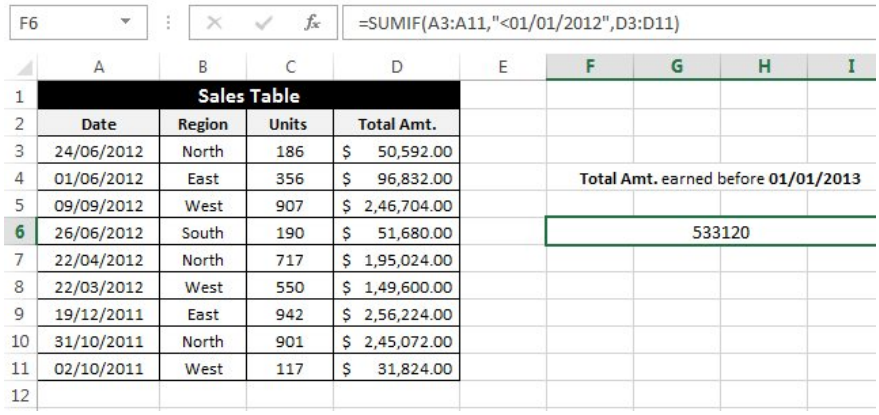


	A	B	C	D	E	F	G	H
1	Sales Table							
2	Date	Region	Units	Total Amt.				
3	24/06/2012	North	186	$ 50,592.00				
4	01/06/2012	East	356	$ 96,832.00		**Total Units** sold in **East** Region.		
5	09/09/2012	West	907	$ 2,46,704.00				
6	26/06/2012	South	190	$ 51,680.00		=SUMIF(B3:B11,"East",C3:C11)		
7	22/04/2012	North	717	$ 1,95,024.00		SUMIF(range, criteria, **[sum_range]**)		
8	22/03/2012	West	550	$ 1,49,600.00				
9	19/12/2011	East	942	$ 2,56,224.00				
10	31/10/2011	North	901	$ 2,45,072.00				
11	02/10/2011	West	117	$ 31,824.00				
12								

To find the result, we need to apply the calculation: **= SUMIF (B3: B11, "East", C3: C11)**

And the calculation result is 129.

Example 2: In the same revenue table, write the formula to calculate the total amount before the "January 1, 2013".

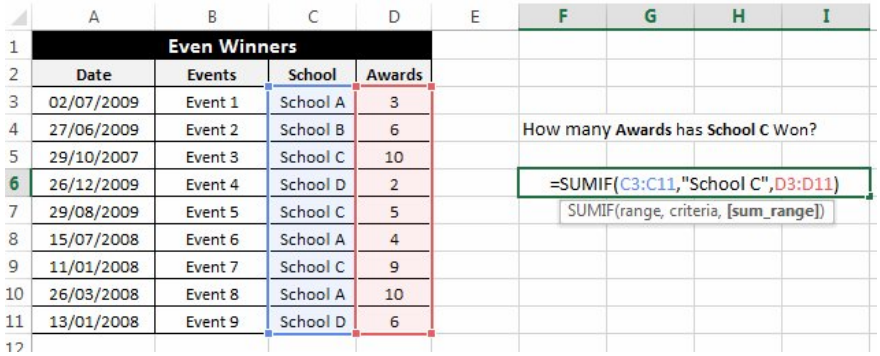


F6 =SUMIF(A3:A11,"<01/01/2012",D3:D11)

	A	B	C	D	E	F	G	H	I
1	Sales Table								
2	Date	Region	Units	Total Amt.					
3	24/06/2012	North	186	$ 50,592.00					
4	01/06/2012	East	356	$ 96,832.00		**Total Amt.** earned before **01/01/2013**			
5	09/09/2012	West	907	$ 2,46,704.00					
6	26/06/2012	South	190	$ 51,680.00		533120			
7	22/04/2012	North	717	$ 1,95,024.00					
8	22/03/2012	West	550	$ 1,49,600.00					
9	19/12/2011	East	942	$ 2,56,224.00					
10	31/10/2011	North	901	$ 2,45,072.00					
11	02/10/2011	West	117	$ 31,824.00					
12									

In this case, we use the calculation: **= SUMIF (A3: A11, "**

Example 3: In this example, we have a list of items by some schools participating in regional events. The task is to find the total number of C medals achieved in events.



	A	B	C	D	E	F	G	H	I
1	Even Winners								
2	Date	Events	School	Awards					
3	02/07/2009	Event 1	School A	3					
4	27/06/2009	Event 2	School B	6		How many **Awards** has **School C** Won?			
5	29/10/2007	Event 3	School C	10					
6	26/12/2009	Event 4	School D	2		=SUMIF(C3:C11,"School C",D3:D11)			
7	29/08/2009	Event 5	School C	5		SUMIF(range, criteria, **[sum_range]**)			
8	15/07/2008	Event 6	School A	4					
9	11/01/2008	Event 7	School C	9					
10	26/03/2008	Event 8	School A	10					
11	13/01/2008	Event 9	School D	6					
12									

We use calculation **= SUMIF (C3: C11, "School C", D3: D11)**

And yes D5 + D7 + D9 has results 24.

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