

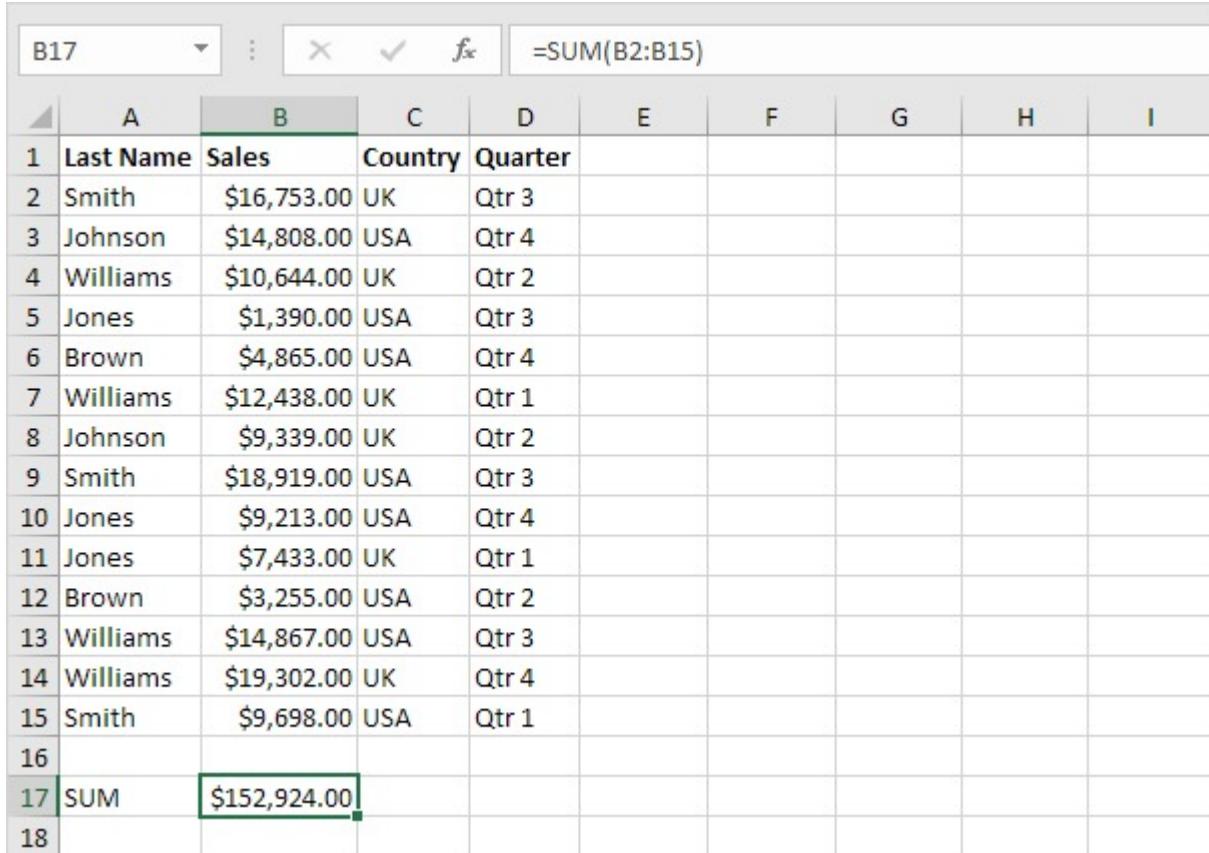
# SUBTOTAL function in Excel

Use the SUBTOTAL function in Excel (instead of SUM, COUNT, MAX, etc.) to ignore rows hidden by a filter or to ignore manually hidden rows.

## ◆ Rows Hidden by a Filter

The SUBTOTAL function ignores rows hidden by a filter, unlike the SUM function, which includes them.

1. For example, the SUM function below calculates the total sales.



	A	B	C	D	E	F	G	H	I
1	Last Name	Sales	Country	Quarter					
2	Smith	\$16,753.00	UK	Qtr 3					
3	Johnson	\$14,808.00	USA	Qtr 4					
4	Williams	\$10,644.00	UK	Qtr 2					
5	Jones	\$1,390.00	USA	Qtr 3					
6	Brown	\$4,865.00	USA	Qtr 4					
7	Williams	\$12,438.00	UK	Qtr 1					
8	Johnson	\$9,339.00	UK	Qtr 2					
9	Smith	\$18,919.00	USA	Qtr 3					
10	Jones	\$9,213.00	USA	Qtr 4					
11	Jones	\$7,433.00	UK	Qtr 1					
12	Brown	\$3,255.00	USA	Qtr 2					
13	Williams	\$14,867.00	USA	Qtr 3					
14	Williams	\$19,302.00	UK	Qtr 4					
15	Smith	\$9,698.00	USA	Qtr 1					
16									
17	SUM	\$152,924.00							
18									

2. Apply a filter.

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3. The SUM function includes rows hidden by a filter.

	A	B	C	D	E	F	G	H	I
1	Last Name	Sales	Count	Quart					
3	Johnson	\$14,808.00	USA	Qtr 4					
6	Brown	\$4,865.00	USA	Qtr 4					
10	Jones	\$9,213.00	USA	Qtr 4					
16									
17	SUM	\$152,924.00							
18									

4. The SUBTOTAL function ignores rows hidden by a filter and calculates the correct result.

	A	B	C	D	E	F	G	H	I
1	Last Name	Sales	Count	Quart					
3	Johnson	\$14,808.00	USA	Qtr 4					
6	Brown	\$4,865.00	USA	Qtr 4					
10	Jones	\$9,213.00	USA	Qtr 4					
16									
17	SUBTOTAL	\$28,886.00							
18									

Note: 109 is the argument for Sum if you use the SUBTOTAL function.

5. It's not easy to remember which argument belongs to which function. Fortunately, the AutoComplete feature in Excel helps you with this.

	A	B	C	D	E	H	I
1	Last Name	Sales	Count	Quart			
3	Johnson	\$14,808.00	USA	Qtr 4			
6	Brown	\$4,865.00	USA	Qtr 4			
10	Jones	\$9,213.00	USA	Qtr 4			
16							
17	SUBTOTAL	=SUBTOTAL(109					
18							
19							
20							
21							
22							
23							
24							
25							

26									
27									
28									
29									
30									

- 107 - STDEV.S
- 108 - STDEV.P
- 109 - SUM
- 110 - VAR.S
- 111 - VAR.P

Note: instead of using 101 (AVERAGE) for the first argument, you could also use 1 (AVERAGE), instead of using 102 (COUNT), you could also use 2 (COUNT), etc. When filtering data, there's no difference between the numbers 101-111 and the numbers 1-11.

## ◆ Manually Hidden Rows

The SUBTOTAL function can ignore manually hidden rows. This is helpful when you manually hide rows but still want an accurate total based on what's visible.

1. For example, the SUM function below sums a range of cells.

Excel Worksheet View									
B5	A	B	C	D	E	F	G	H	I
1	1								
2	10								
3	5								
4									
5	SUM		16						
6									

2. Hide row 2.

3. The SUM function includes manually hidden rows.

Excel Worksheet View									
B5	A	B	C	D	E	F	G	H	I
1	1								
3	5								
4									
5	SUM		16						
6									

4. The SUBTOTAL function ignores manually hidden rows and calculates the correct result.

Excel Worksheet View									
B5	A	B	C	D	E	F	G	H	I
1	1								
3	5								
4									
5	SUBTOTAL		6						
6									

Caution: the numbers 101-111 ignore manually hidden rows. However, the numbers 1-11

include manually hidden rows!

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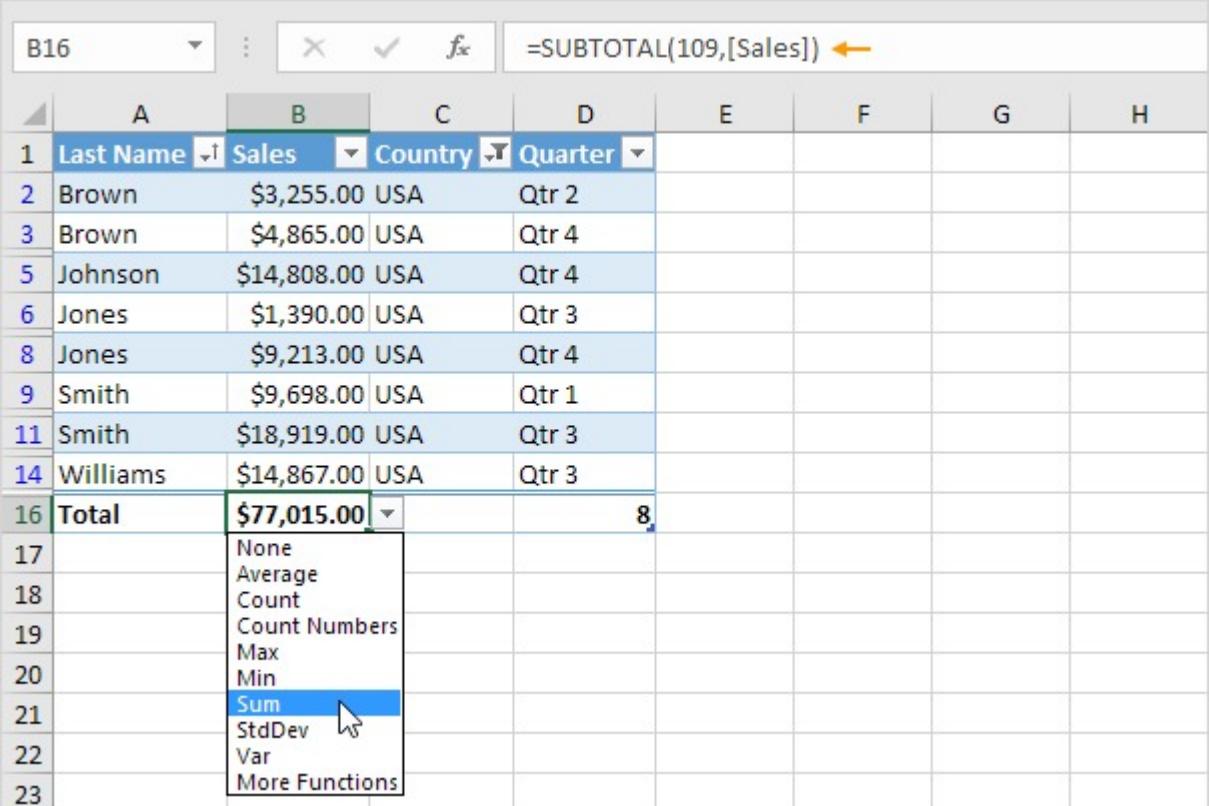
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## ◆ Automatic Subtotals

We saved the best for last. Excel can automatically add SUBTOTAL functions for you.

1. The first option. [Create a table](#) and add a [total row](#) to the bottom of the table. Next, click any cell in the last row to automatically add a SUBTOTAL function.



The screenshot shows a Microsoft Excel spreadsheet with a table of sales data. The table has columns for Last Name, Sales, Country, and Quarter. Row 16 contains a total row with the value '\$77,015.00'. Cell B16 contains the formula '=SUBTOTAL(109,[Sales])'. A context menu is open over cell B16, showing various subtotal functions: None, Average, Count, Count Numbers, Max, Min, Sum, StdDev, Var, and More Functions. The 'Sum' option is highlighted with a blue selection bar.

1	Last Name	Sales	Country	Quarter
2	Brown	\$3,255.00	USA	Qtr 2
3	Brown	\$4,865.00	USA	Qtr 4
5	Johnson	\$14,808.00	USA	Qtr 4
6	Jones	\$1,390.00	USA	Qtr 3
8	Jones	\$9,213.00	USA	Qtr 4
9	Smith	\$9,698.00	USA	Qtr 1
11	Smith	\$18,919.00	USA	Qtr 3
14	Williams	\$14,867.00	USA	Qtr 3
16	Total	\$77,015.00		

Explanation: in this example, we also filtered by Country. Excel uses the SUBTOTAL function to correctly calculate the total sales in the USA.

2. The second option. On the Data tab, in the Outline group, click Subtotal to [outline your data](#).



The screenshot shows a Microsoft Excel spreadsheet with a table of sales data. The table has columns for Last Name, Sales, Country, and Quarter. Row 6 contains a subtotal row with the value '9'. Cell B6 contains the formula '=SUBTOTAL(9,B2:B5)'. The 'Outline' button in the ribbon is highlighted with a yellow arrow.

1	2	3	A	P	C	D
1	2	3				

	1	Last Name	Sales	Product Type	Company
-	2	Jones	\$1,390.00	DF-3	Kung Food
-	3	Williams	\$1,243.00	FD-2	Kung Food
-	4	Johnson	\$9,339.00	DC-1	Kung Food
-	5	Jones	\$7,433.00	DF-7	Kung Food
-	6		\$19,405.00		<b>Kung Food Total</b>
-	7	Brown	\$3,255.00	FD-2	Pancakes on the Rocks
-	8	Williams	\$1,930.00	A-34	Pancakes on the Rocks
-	9		\$5,185.00		<b>Pancakes on the Rocks Total</b>
-	10	Williams	\$1,064.00	EE-2	Peace A Pizza
-	11	Brown	\$4,865.00	EEE-45	Peace A Pizza
-	12	Smith	\$9,698.00	F-3334	Peace A Pizza
-	13		\$15,627.00		<b>Peace A Pizza Total</b>
-	14	Smith	\$1,675.00	EEE-312	Wok N Roll
-	15	Johnson	\$1,480.00	DC-1	Wok N Roll
-	16	Smith	\$1,891.00	EEE-312	Wok N Roll
-	17	Jones	\$9,213.00	FG-5	Wok N Roll
-	18	Williams	\$1,486.00	A-34	Wok N Roll
-	19		\$15,745.00		<b>Wok N Roll Total</b>
-	20		\$55,962.00		<b>Grand Total</b>
-	21				

Explanation: in this example, Excel automatically added 5 SUBTOTAL functions (B6, B9, B13, B19 and B20). Follow the link for more information.



## Chapter

- Filter

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- Number and Text Filters
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- Data Form
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- Outlining Data
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- Subtotal
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