

How can I rank values by group in Excel?

Authored by
stats writer

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Ranking values by group in Excel is a useful tool for organizing and analyzing data. To do so, first, select the data you want to rank and then go to the "Data" tab and click on "Sort." In the Sort dialog box, choose the column you want to rank by and select the "Values" option in the "Sort On" drop-down menu. Next, choose either "Largest to Smallest" or "Smallest to Largest" in the "Order" drop-down menu, depending on how you want the values to be ranked. Finally, click "OK" to apply the ranking. This will automatically assign a rank number to each value based on its position within the group. This feature is especially useful when dealing with large datasets and can help identify the highest or lowest values within a specific group.

Rank Values by Group in Excel

You can use the following formulas to rank values by group in Excel:

Formula 1: Rank Values by Group

=SUMPRODUCT((\$A\$2:\$A\$13=A2)*(\$B\$2:\$B\$13>B2))+1

This particular formula finds the rank of the value in cell B2 that belongs to the group in cell A2.

This formula assigns a rank of 1 to the largest value, 2 to the second largest value, etc.

Formula 2: Rank Values by Group (Reverse Order)

=SUMPRODUCT((\$A\$2:\$A\$13=A2)*(\$B\$2:\$B\$13<B2))+1

This particular formula finds the reverse rank of the

value in cell B2 that belongs to the group in cell A2.

This formula assigns a rank of 1 to the smallest value, 2 to the second smallest value, etc.

The following examples show how to use each formula in Excel.

Example 1: Rank Values by Group in Excel

Suppose we have the following dataset in Excel that shows the points scored by basketball players on various teams:

	A	B	C	D	E	F
1	Team	Points				
2	Mavs	22				
3	Mavs	28				
4	Spurs	31				
5	Rockets	14				
6	Rockets	18				
7	Mavs	9				
8	Spurs	12				
9	Spurs	10				
10	Rockets	25				
11	Rockets	30				
12	Spurs	36				
13	Mavs	11				
14						
15						
16						
17						
18						

We can use the following formula to rank the points by team:

=SUMPRODUCT((\$A\$2:\$A\$13=A2)*(\$B\$2:\$B\$13>B2))+1

We'll type this formula into cell C2, then copy and paste the formula down to every remaining cell in column C:

	A	B	C	D	E	F	G	H
1	Team	Points	Team Rank					
2	Mavs	22	2					
3	Mavs	28	1					
4	Spurs	31	2					
5	Rockets	14	4					
6	Rockets	18	3					
7	Mavs	9	4					
8	Spurs	12	3					
9	Spurs	10	4					
10	Rockets	25	2					
11	Rockets	30	1					
12	Spurs	36	1					
13	Mavs	11	3					
14								
15								
16								
17								
18								

The player with 22 points for the Mavs has the 2nd largest points value among Mavericks players. The player with 28 points for the Mavs has the 1st largest points value among Mavericks players. The player with

31 points for the Spurs has the 2nd largest points value among Spurs players.

And so on.

Example 2: Rank Values by Group (Reverse Order) in Excel

Once again suppose we have the following dataset in Excel that shows the points scored by basketball players on various teams:

	A	B	C	D	E	F
1	Team	Points				
2	Mavs	22				
3	Mavs	28				
4	Spurs	31				
5	Rockets	14				
6	Rockets	18				
7	Mavs	9				
8	Spurs	12				
9	Spurs	10				
10	Rockets	25				
11	Rockets	30				
12	Spurs	36				
13	Mavs	11				
14						
15						
16						
17						
18						

We can use the following formula to rank the points in reverse order by team:

=SUMPRODUCT((\$A\$2:\$A\$13=A2)*(\$B\$2:\$B\$13<B2))+1

We'll type this formula into cell C2, then copy and paste the formula down to every remaining cell in column C:

	A	B	C	D	E	F	G	H
1	Team	Points	Team Rank (Reverse)					
2	Mavs	22	3					
3	Mavs	28	4					
4	Spurs	31	3					
5	Rockets	14	1					
6	Rockets	18	2					
7	Mavs	9	1					
8	Spurs	12	2					
9	Spurs	10	1					
10	Rockets	25	3					
11	Rockets	30	4					
12	Spurs	36	4					
13	Mavs	11	2					
14								
15								
16								
17								
18								
19								
20								
21								

Here's how to interpret the values in column C:

The player with 22 points for the Mavs has the 3rd smallest points value among Mavericks players. The player with 28 points for the Mavs has the 4th smallest

points value among Mavericks players. The player with 31 points for the Spurs has the 4th smallest points value among Spurs players.

And so on.

Additional Resources

The following tutorials explain how to perform other common tasks in Excel:

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