

# How can I use the MAX IF function in Excel with multiple criteria?

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## RECOMMENDED CITATION

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The MAX IF function in Excel allows users to find the maximum value in a range of cells based on specific criteria. This function can also be used with multiple criteria to narrow down the search and find the maximum value that meets all the specified conditions. By using this function, users can efficiently analyze and manipulate large sets of data to extract the desired information. This feature is particularly useful for financial analysis, statistical calculations, and other data-driven tasks. To use the MAX IF function with multiple criteria, users must follow a specific syntax and ensure that the data is properly organized. This powerful tool provides a convenient and accurate way to retrieve the maximum value from a dataset based on specific criteria.

## Excel: Use MAX IF with Multiple Criteria

You can use the following basic syntax to use MAX IF with multiple criteria in Excel:

```
=MAX(IF(A2:A11="Mavs", IF(B2:B11="Forward", C2:C11)))
```

This particular formula finds the max value in the range C2:C11 where the corresponding value in the range A2:A11 is equal to "Mavs" and the corresponding value in the range B2:B11 is equal to "Forward."

The following examples shows how to use this syntax in practice.

### Example: MAX IF with Multiple Criteria in Excel

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

	A	B	C	D	E
1	<b>Team</b>	<b>Position</b>	<b>Points</b>		
2	Mavs	Guard	22		
3	Mavs	Guard	31		
4	Mavs	Forward	30		
5	Mavs	Forward	22		
6	Mavs	Forward	16		
7	Heat	Guard	15		
8	Heat	Guard	19		
9	Heat	Guard	21		
10	Heat	Forward	40		
11	Heat	Forward	12		
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					

We can type the following formula into cell E2 to calculate the max value of players who are on the Mavs team and have a position of Forward:

```
=MAX(IF(A2:A11="Mavs", IF(B2:B11="Forward", C2:C11)))
```

The following screenshot shows how to use this formula in practice:

The screenshot shows an Excel spreadsheet with the following data:

	A	B	C	D	E	F	G	H	I
1	<b>Team</b>	<b>Position</b>	<b>Points</b>		<b>Max Points for Mavs Forward</b>				
2	Mavs	Guard	22		30				
3	Mavs	Guard	31						
4	Mavs	Forward	30						
5	Mavs	Forward	22						
6	Mavs	Forward	16						
7	Heat	Guard	15						
8	Heat	Guard	19						
9	Heat	Guard	21						
10	Heat	Forward	40						
11	Heat	Forward	12						
12									
13									
14									
15									
16									
17									
18									
19									
20									

The formula bar shows the formula: `=MAX(IF(A2:A11="Mavs", IF(B2:B11="Forward", C2:C11)))`

We can see that the player with the max value for the Points column with a Team value of "Mavs" and Position value of "Forward" is 30.

We can modify the values in quotation marks in the formula to find the max points among players who meet different criteria.

For example, we can type the following formula into cell E2 to calculate the max value of players who are on the Heat team and have a position of Guard:

**=MAX(IF(A2:A11="Heat", IF(B2:B11="Guard", C2:C11)))**

The following screenshot shows how to use this formula in practice:

	A	B	C	D	E	F	G	H	I
1	<b>Team</b>	<b>Position</b>	<b>Points</b>		<b>Max Points for Mavs Forward</b>				
2	Mavs	Guard	22		21				
3	Mavs	Guard	31						
4	Mavs	Forward	30						
5	Mavs	Forward	22						
6	Mavs	Forward	16						
7	Heat	Guard	15						
8	Heat	Guard	19						
9	Heat	Guard	21						
10	Heat	Forward	40						
11	Heat	Forward	12						
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19									

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