

How can I compare dates without taking into account the time in Excel?

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There are several methods to compare dates without considering the time in Excel. One way is to use the "DATEVALUE" function, which converts a date into a serial number that represents the date without any time information. Another option is to use the "TEXT" function to format the dates into a specific format, such as "mm/dd/yyyy", which will remove the time component. Additionally, the "TRUNC" function can be used to remove the time from a date and return the date only. By utilizing these functions, one can easily compare dates without taking into account the time in Excel.

Excel: Compare Dates Without Time

Often you may want to compare two dates in Excel while ignoring the time values associated with the dates.

Fortunately you can use the INT() function in Excel to extract just the date from a datetime value, which allows you to easily compare dates while ignoring the time.

The following examples show how to use this INT() function in different scenarios.

Example 1: Compare Dates Without Time

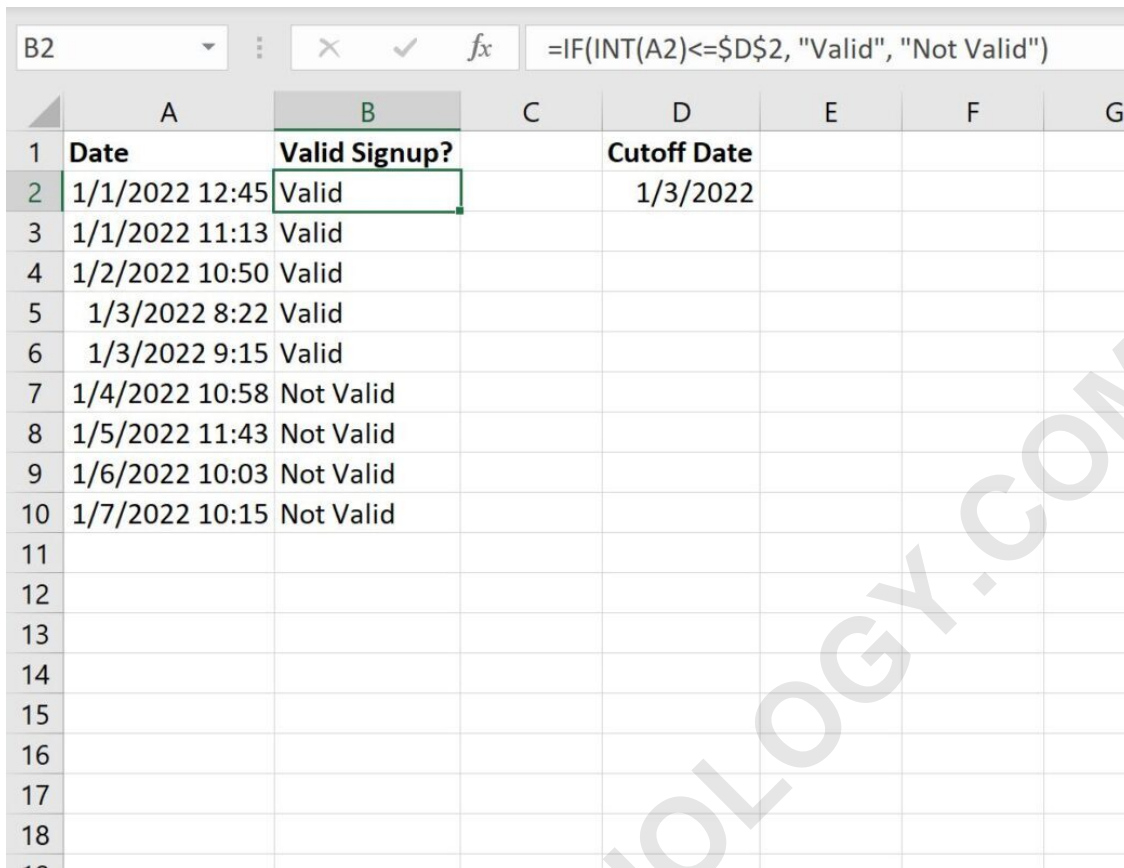
Suppose we have the following list of datetime values in Excel that show when different people signed up for a 5K race along with the cutoff date for signing up:

	A	B	C	D	E	F
1	Date			Cutoff Date		
2	1/1/2022 12:45			1/3/2022		
3	1/1/2022 11:13					
4	1/2/2022 10:50					
5	1/3/2022 8:22					
6	1/3/2022 9:15					
7	1/4/2022 10:58					
8	1/5/2022 11:43					
9	1/6/2022 10:03					
10	1/7/2022 10:15					
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

We can type the following formula into cell B2 to compare the sign up date with the cutoff date:

=IF(INT(A2)<=\$D\$2, "Valid", "Not Valid")

We can then drag and fill this formula down to every remaining cell in column B:



	A	B	C	D	E	F	G
1	Date	Valid Signup?		Cutoff Date			
2	1/1/2022 12:45	Valid		1/3/2022			
3	1/1/2022 11:13	Valid					
4	1/2/2022 10:50	Valid					
5	1/3/2022 8:22	Valid					
6	1/3/2022 9:15	Valid					
7	1/4/2022 10:58	Not Valid					
8	1/5/2022 11:43	Not Valid					
9	1/6/2022 10:03	Not Valid					
10	1/7/2022 10:15	Not Valid					
11							
12							
13							
14							
15							
16							
17							
18							
19							

This formula compares only the date in column A with the cutoff date in cell D2.

If the date in column A is equal to or prior to the date in cell D2, the formula returns Valid.

Otherwise, the formula returns Not Valid.

Example 2: Compare and Count Dates Without Time

Once again suppose we have the following list of datetime values in Excel that show when different people signed up for a 5K race along with the cutoff

date for signing up:

	A	B	C	D	E	F
1	Date			Cutoff Date		
2	1/1/2022 12:45			1/3/2022		
3	1/1/2022 11:13					
4	1/2/2022 10:50					
5	1/3/2022 8:22					
6	1/3/2022 9:15					
7	1/4/2022 10:58					
8	1/5/2022 11:43					
9	1/6/2022 10:03					
10	1/7/2022 10:15					
11						
12						
13						
14						
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16						
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18						
19						
20						
21						

We can type the following formula into cell F2 to count the total number of sign up dates that are equal to or prior to the cutoff date:

=SUMPRODUCT((INT(A2:A10)<=D2)+0)

	A	B	C	D	E	F	G
1	Date			Cutoff Date		Valid Signups	
2	1/1/2022 12:45			1/3/2022		5	
3	1/1/2022 11:13						
4	1/2/2022 10:50						
5	1/3/2022 8:22						
6	1/3/2022 9:15						
7	1/4/2022 10:58						
8	1/5/2022 11:43						
9	1/6/2022 10:03						
10	1/7/2022 10:15						
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							

From the output we can see that 5 total dates in column A are equal to or prior to the cutoff date.

By using the INT() function, we were able to compare only the date portion of the datetime values in column A to the cutoff date.

Additional Resources

The following tutorials explain how to perform other

common tasks in Excel:

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