

# EXAMPLE - DATEDIF Function

This example illustrates how to use the `DATEDIF` function to calculate the number of days that have elapsed between the order date and today for purposes of informing the customer.

## Source:

For the orders in the following set, you want to charge interest for those ones that are older than 90 days.

OrderId	OrderDate	Amount
1001	1/31/16	1000
1002	11/15/15	1000
1003	12/18/15	1000
1004	1/15/16	1000

## Transformation:

The first step is to create a column containing today's (03/03/16) date value:

<b>Transformation Name</b>	New formula
<b>Parameter: Formula type</b>	Single row formula
<b>Parameter: Formula</b>	TODAY()
<b>Parameter: New column name</b>	'Today'

You can now use this value as the basis for computing the number of elapsed days for each invoice:

<b>Transformation Name</b>	New formula
<b>Parameter: Formula type</b>	Single row formula
<b>Parameter: Formula</b>	DATEDIF(OrderDate, Today, day)

The age of each invoice in days is displayed in the new column. Now, you want to add a little bit of information to this comparison. Instead of just calculating the number of days, you could write out the action to undertake.

Replace the above with the following:

<b>Transformation Name</b>	New formula
<b>Parameter: Formula type</b>	Single row formula
<b>Parameter: Formula</b>	IF((DATEDIF(OrderDate, Today, day) > 90), 'Charge interest', 'no action')
<b>Parameter: New column name</b>	'TakeAction'

To be fair to your customers, you might want to issue a notice at 45 days that the invoice is outstanding. You can replace the above with the following:

<b>Transformation Name</b>	New formula
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<b>Parameter: Formula type</b>	Single row formula
<b>Parameter: Formula</b>	IF(DATEDIF(OrderDate, Today, day) > 90,'Charge interest',IF(DATEDIF(OrderDate, Today, day) > 45),'Send letter','no action'))
<b>Parameter: New column name</b>	'TakeAction'

By using nested instances of the IF function, you can generate multiple results in the TakeAction column.

For the items that are over 90 days old, you want to charge 5% interest. You can do the following:

<b>Transformation Name</b>	Edit column with formula
<b>Parameter: Columns</b>	Amount
<b>Parameter: Formula</b>	IF(TakeAction == 'Charge interest',Amount * 1.05, Amount)

The above sets the value in the Amount column based on the conditional of whether the TakeAction column value is Charge interest. If so, apply 5% interest to the value in the Amount column.

**Results:**

OrderId	OrderDate	Amount	Today	TakeAction
1001	1/31/16	1000	03/03/16	no action
1002	11/15/15	1050	03/03/16	Charge interest
1003	12/18/15	1000	03/03/16	Send letter
1004	1/15/16	1000	03/03/16	Send letter