Formulas for Common Uses

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In the following formulas, change the **tfa_XXX** fields to match your form's **field aliases**. These are post-processing formula examples, and will **not** work with Form Calculations.

Note:

- Formulas cannot be used in connector repeating sections.
- Field aliases from repeatable fields and sections cannot be used within FormAssembly formulas.
- Javascript calculations cannot be used in connectors.

Skip If Formulas

Skip an object creation if a field is empty

```
@IF(%%tfa_XXX%%="","TRUE","FALSE")
```

Skip an object creation if either of two fields is empty

```
@IF(@OR(%%tfa_XXX%%="",%%tfa_YYY%%=""),"TRUE","FALSE")
```

Skip an object creation if a field contains a particular value (in this case, the value is @company.com)

```
@IF(@CONTAINS("@company.com",%%tfa_XXX%%),"TRUE","FALSE")
```

Are you working with checkboxes in your skip-if formula? Review this article for more details on using the checkbox choice alias in formulas.

Blank Values

Check to see if a value is not blank, if it is blank then send a different value rather than the blank value:

```
@IF(%%tfa_XXX%%,%%tfa_XXX%%,%%tfa_YYY%%)
```

This formula says, "If there is a value in tfa_XXX, send that value. Otherwise, send the value in tfa_YYY.

Checkboxes

Check a box in Salesforce only if both the "I agree to be contacted" and "I would like daily emails" checkboxes are checked

Note: Set the field's mapping selector to Formula.

```
@IF(@AND(\%\%tfa_XXX\%\%="I agree to be contacted",\%\%tfa_YYY\%\%="I would like daily emails"),"1","0")
```

Skip an object creation if a checkbox labeled "Don't Create Contact" is checked

```
@IF(%%tfa_XXX%%,"TRUE","FALSE")
```

Skip an object creation if a checkbox labeled "Create Contact" is unchecked

```
@IF(%%tfa_XXX%%="Create Contact","FALSE","TRUE")
```

Check a box in Salesforce if a certain option is selected from a multi-select drop-down list (in this case, we are looking for "Send me more information" to be selected)

Note: Set the field's mapping selector to Formula.

@IF(%%tfa_XXX%%="Send me more information","1","0")

Formatting

Title-case format a respondent's name in Salesforce

Note: Set the field's mapping selector to Formula.

@PROPER(%%tfa_XXX%%)

Add line breaks to a set of values being populated into a Salesforce field

Note: Set the field's mapping selector to **Formula**.

@CONCATENATE(%%tfa_XXX%%,@CHAR(10),%%tfa_YYY%%)

Add a copy of the response data to a Salesforce Text field

Note: Set the field's mapping selector to Formula.

%%RESPONSE_TEXT%%

Add a copy of the response data to a Salesforce Rich Text field

Note: Set the field's mapping selector to Formula.

@CONCATENATE("",%%RESPONSE_TEXT%%,"")

Dates and Times

Note:

- FormAssembly formulas honor the same date format parameters as PHP. More information on PHP formatting can be found here.
- When prefilling a Time field type from Salesforce, times will often prefill in the military time format (08:00:00.000Z). As a workaround, we suggest using the Salesforce field alias (%%SFA_Date_Field_c%%) in Salesforce Prefill Connector formulas to trim the first 5 characters. For example: @LEFT(%%SFA_Date_Field_c%%,5) will output 08:00.

Calculate age using a date entered, where the field alias is the date field in your form

Note: Set the connector's field mapping selector to **Formula**.

@DATEDIF(@DATEVALUE(%%**tfa_XXX**%%),@TODAY(),"Y")

The output will be the year difference between the date entered and today's date.

Set today's date and time on a Salesforce Date field

Note: Set the field's mapping selector to Formula.

@YMDTODAY("")

The output will include time and be in the following format: 2017-09-05-04:00

Set today's date and time on a Salesforce Date field (alternative method)

Note: Set the field's mapping selector to Formula.

@LOCALNOW()

The output will include time and be in the following format: 09/05/2017 17:17

Set today's date on a Salesforce Date field

Note: Set the field's mapping selector to **Formula**.

@LOCALTODAY()

The output will be in the following format: 09/05/2017

Set yesterday's date on a Salesforce DateTime field

Note: Set the field's mapping selector to Formula.

@YMDNOW("-1 day")

The output will include the time and be in the following format: 2017-09-05T17:16:30-04:00

Set the date on a Salesforce Date field to a year from today's date

@YMDTODAY("+1 year","Y-m-d")

Compare today's date with a specific date (in this case, we are seeing if today's date is past the date 01/15/2019)

@IF(@DATEVALUE(@LOCALTODAY())>@DATEVALUE("**01/15/2019**"),"TRUE","FALSE")

The output will be "TRUE" if the date listed (01/15/2019) has passed.

Attachments

Give a user's file upload attachment a custom Salesforce File Name while retaining the extension (in this case, the custom file name is Profile_Photo)

Note: Set the Attachment object's FileName field to Formula.

@CONCATENATE("**Profile_Photo.**",@MID(%%**tfa_XXX**%%,@COMPUTE(@FIND(".",%%**tfa_XX**X%%,1)+1),40))

Dynamic Email Notifications

To send an email to different email addresses based on an answer on your form, set up conditional email notifications.

Additional Resources

- Line Breaks in Concatenates
- Send Leading Zeros to Salesforce
- Currency formatting

FAQ

How do I insert line breaks between parts of my concatenation formula?

Rich Text fields accept HTML5. Instead of concatenations with @CHAR(10), use
 for line breaks.

- Example Code:
- Dear person,
 /> %%tfa 13%%

 Hello Hello
 Hello
- Output Result:

Dear person,

Great team work!

Hello Hello

Hello

When using line breaks in a concatenate formula, you can use @CHAR(10).

- Example Code:
- @CONCATENATE("Dear ", %%tfa_1%%, ",", @CHAR(10), "Great team
 work!")
- Output Result:

Dear Bob, Great team work!

How do I preserve leading zeros in a formula when sending them to Salesforce?

To preserve leading zeros the value must be sent as a Text Field. If sending as a Salesforce Number field type, the Salesforce API will strip out leading zeros.

Note: Replace the '5' in the formula below with the desired length for the number of characters you would like to send.

@CONCATENATE(@REPT(0,**5**-@LEN(%%tfa_1%%)),%%tfa_1%%)

Note: FormAssembly's formula engine can handle a maximum integer/number length of **19 digits**. If you are trying to **prefill** or **use a formula** with a number that is longer than **19** digits, it will be cut off. This is only for numbers - not text.

How do I format a Currency Field to always add a decimal with two places?

If you are using **email notifications** or the **auto-responder**, you may see that currency amounts are automatically stripped of trailing zeros if they are after a decimal. If you would like those zeros to remain, use the following formula:

@IF(@CONTAINS(".",%%tfa_XXX%%),@IF(@COMPUTE(@LEN(%%tfa_XXXX%%)-@SEARCH(".",%%tfa_XXX%%))=2,%%tfa_XXX%%,@CONCATENATE(%%tfa_XXX%%,"0")),@CONCATENATE(%%tfa_XXX%%,"0"))