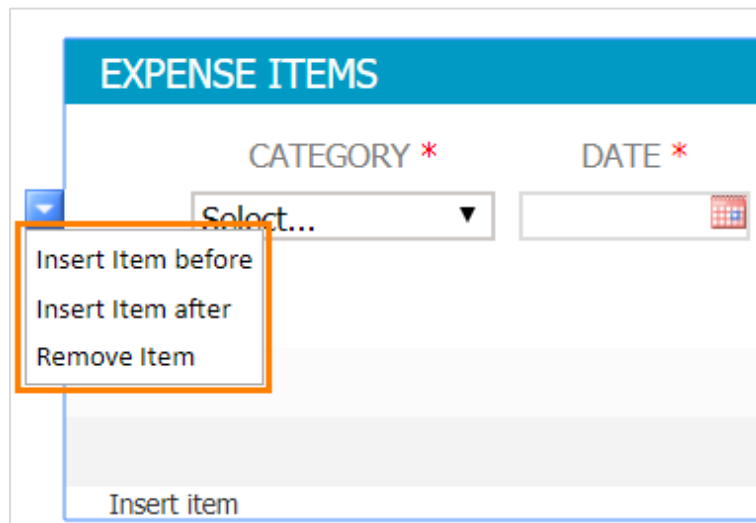




Lab 3 – More Discoverable Insert and Delete Widgets

Overview

InfoPath has a built-in way to insert and delete rows from repeating table:



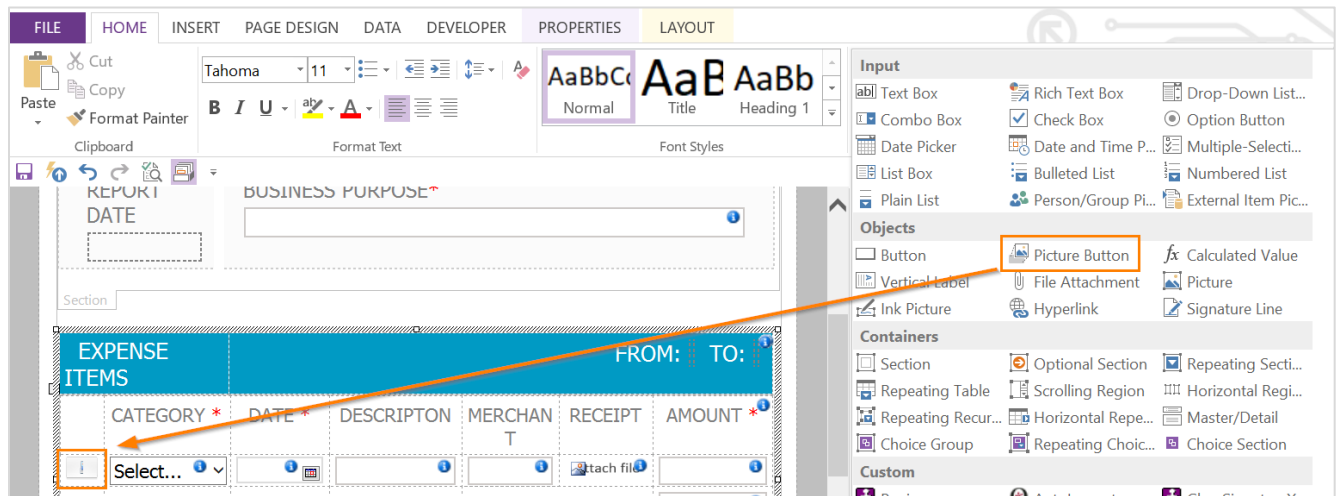
This method is easy to add but is not a convenient way of providing Insert/Delete function to users because they will have to click multiple times in the form. This document details how to add Insert and Delete widgets to your repeating table using qRules commands and save users out from multiple clicks.

Before you start

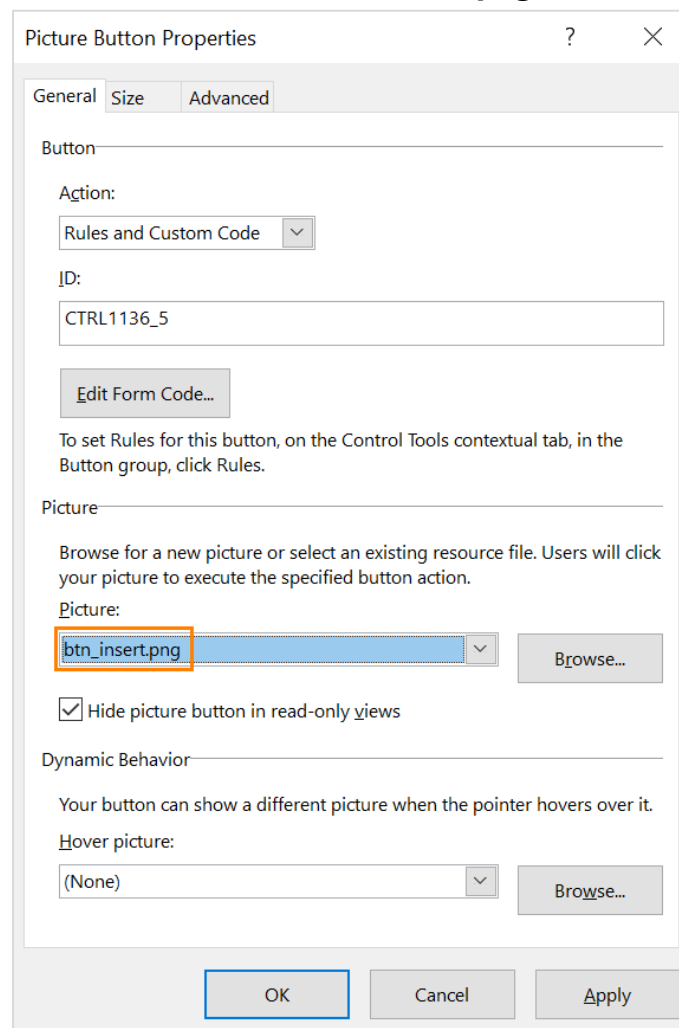
This lab assumes that you have finished the previous labs in this training. Use the Start form provided in this lab.

Add the Insert and Delete Buttons

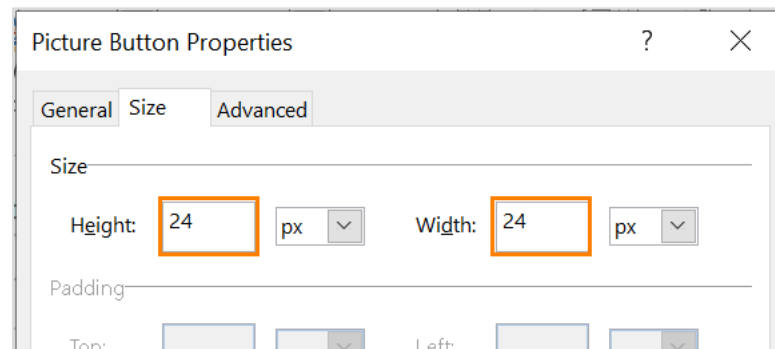
1. Add a picture button at the left-most part of the Expense Items repeating table



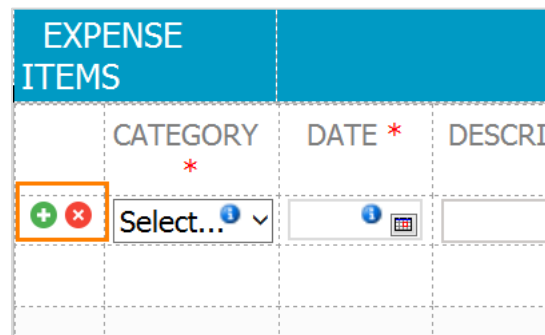
2. Select the picture button. Right click and select **Picture Button Properties**
3. Under **General** → **Picture** section, select the **btn_insert.png**



- Under Size tab, enter 24 px as the Height and Width (resize as desired)



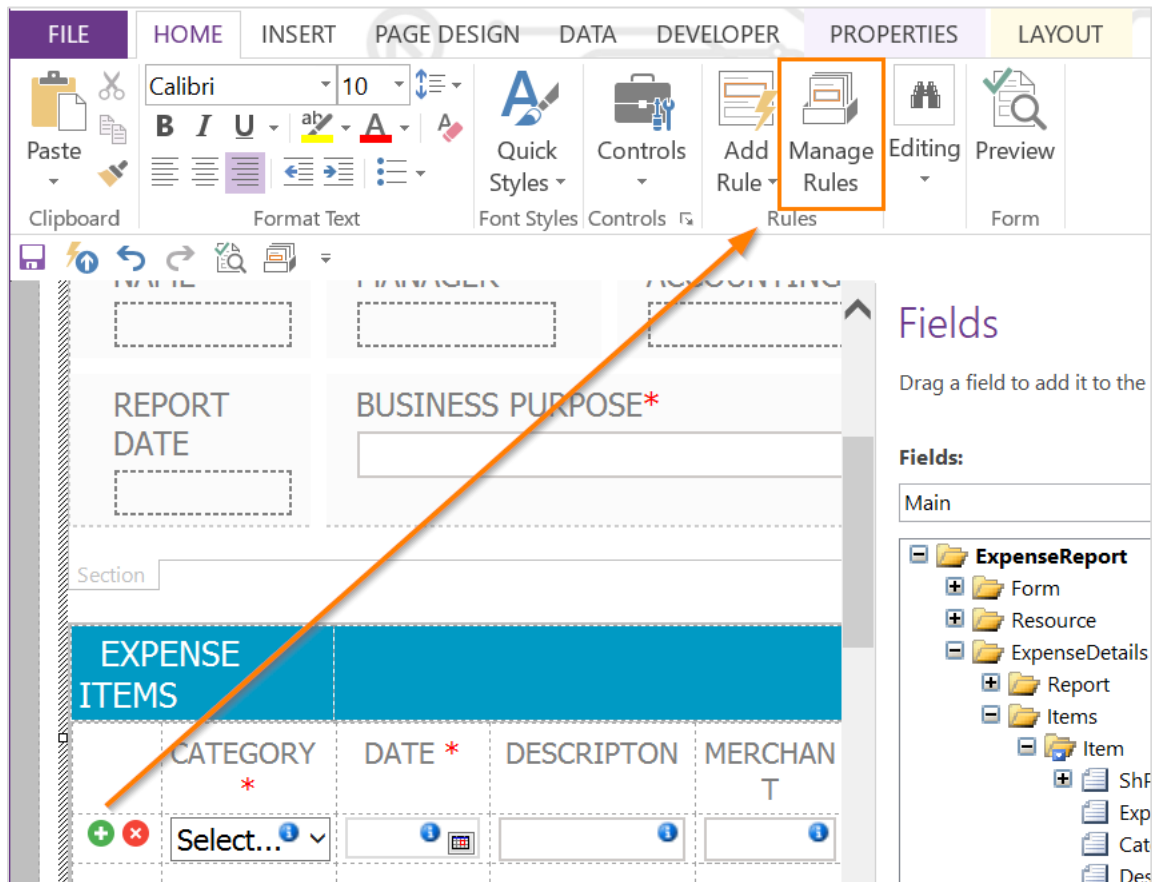
- Repeat the same steps for the delete button. Here is the result:



- Save the changes.

Add the Insert and Delete qRules Commands

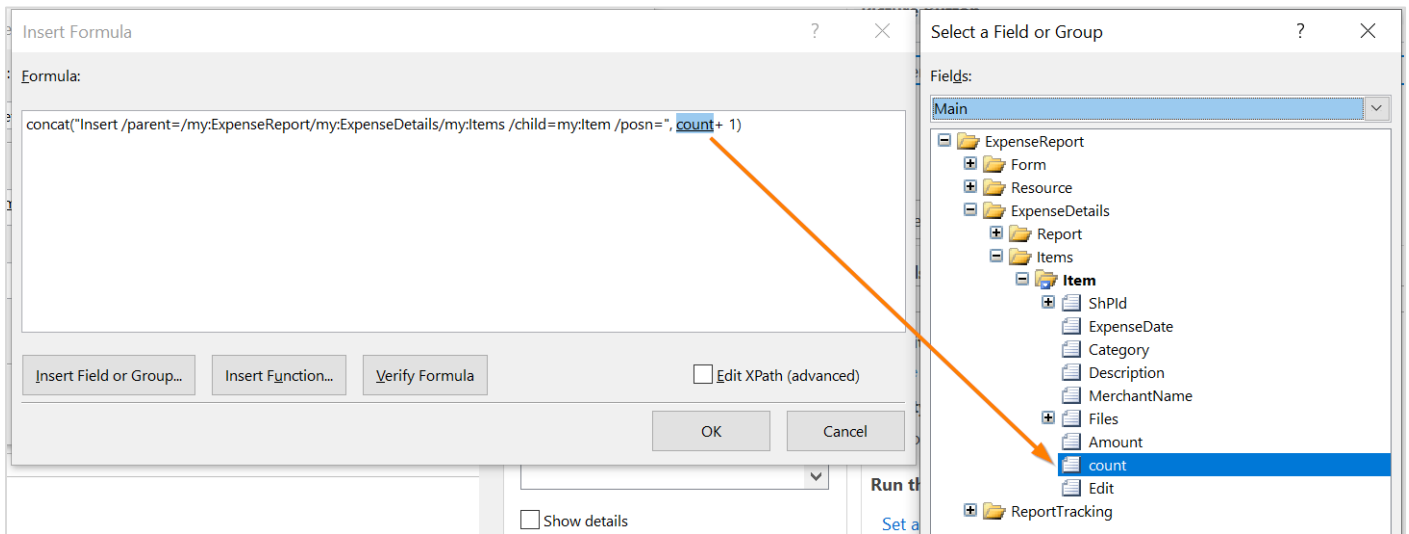
- Select the insert button and click **Manage Rules**



2. Add a new rule and name it **Insert Row**. The action details should have the following target field and value (should be added using function (fx) button):

Field	QdabraRules Command
Value	concat("Insert /parent=/my:ExpenseReport/my:ExpenseDetails/my:Items /child=my:Item /posn=", <u>count</u> + 1)

where count should point to the count field under the Item repeating group in the main data source



Here's what the rule should look like:

Rules

Picture Button

Insert Row

New

Details for:

Insert Row

Condition:

None - Rule runs when button is clicked

Rule type:

Action

Run these actions: *

Set a field's value: Command = concat('Insert /parent=/my:ExpenseReport/my:ExpenseDetails/my:Items /child=my:Item /posn=', count + 1)

☐ Don't run remaining rules if the condition of this rule is met

- Let's do the same steps for the delete button. Select the delete button and add a rule called **Delete Row**
- Refer to the following for the action details.

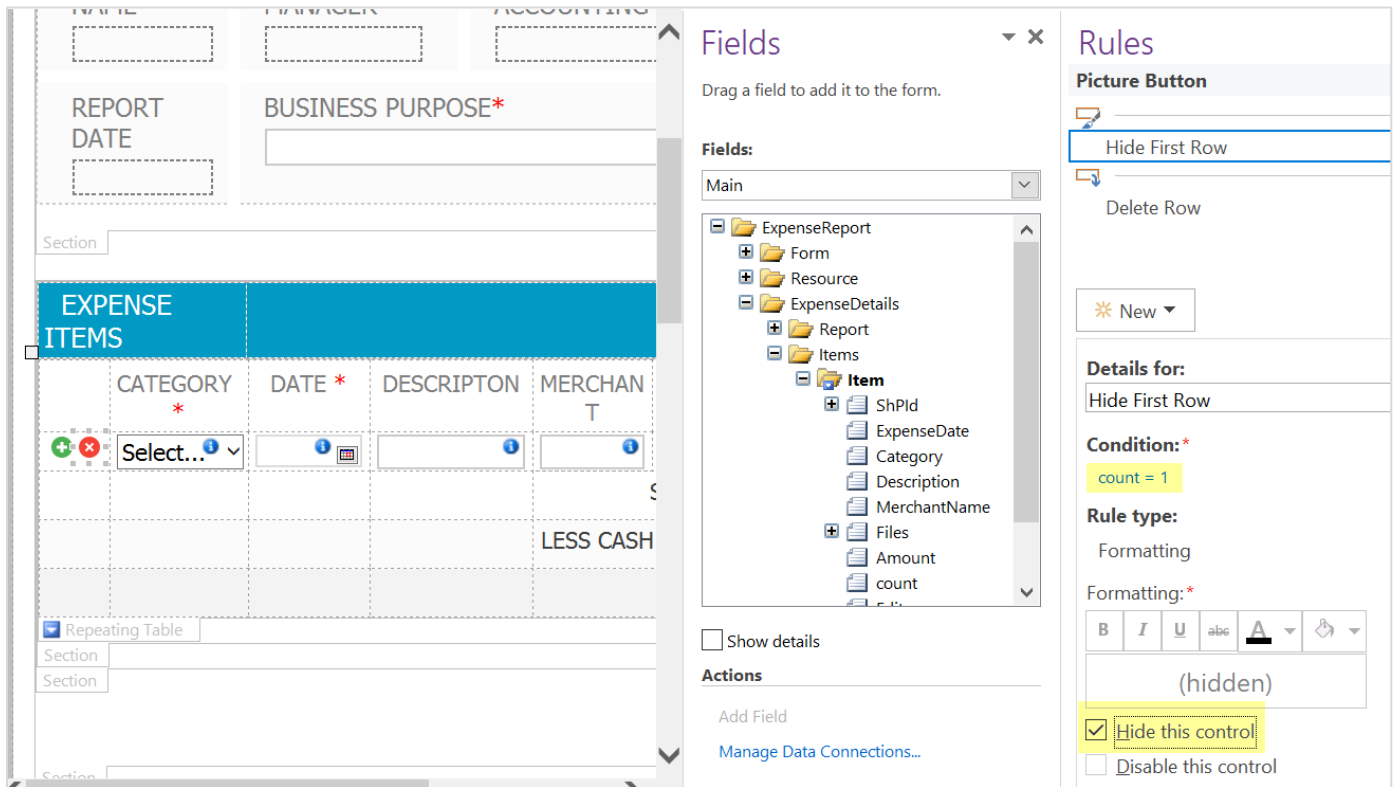
Field	QdabraRules Command
Value	<code>concat("Delete /xpath=/my:ExpenseReport/my:ExpenseDetails/my:Items/my:Item[" <u>count</u>, "]")</code>

Again, count should point to the count field under the Item repeating group in the main data source

- We want to make sure that the delete button won't show up in the first row in the repeating table. This will prevent the users from deleting all rows until there's nothing left. To do this, add a formatting rule for the delete button and call it **Hide First Row**.

The screenshot shows the Qdabra Rules editor interface. On the left is a form preview with a repeating table titled 'EXPENSE ITEMS'. The table has columns: CATEGORY, DATE, DESCRIPTION, and MERCHANT. An orange arrow points from the 'Delete Row' button in the 'Picture Button' section of the 'Rules' pane to the 'Hide First Row' rule in the 'Fields' pane. The 'Fields' pane shows a tree view of the data source: Main > ExpenseReport > Form > Resource > ExpenseDetails > Report > Items > Item > count. The 'Rules' pane shows the 'Hide First Row' rule selected, with details for 'Hide First Row', condition 'None', rule type 'Formatting', and formatting options like 'AaBbCcYyZz'.

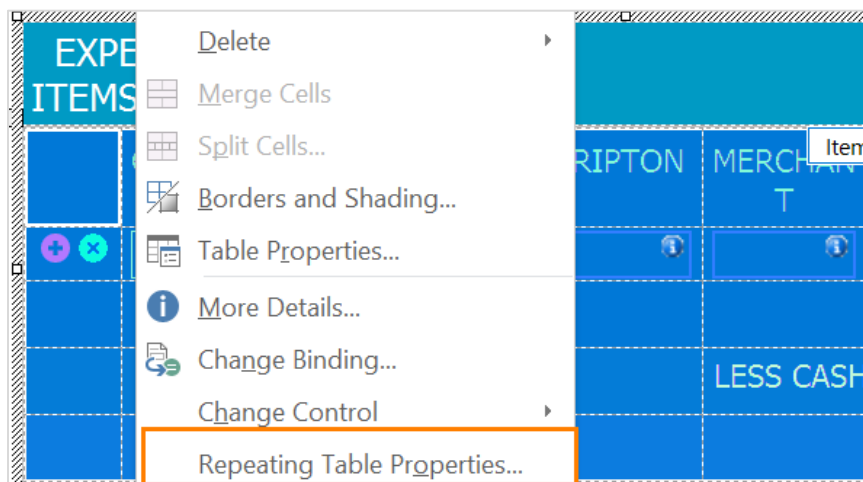
- Add a condition where `count = 1`.
`count` refers to the count field in the main data source. The complete xpath is:
`/my:ExpenseReport/my:ExpenseDetails/my:Items/my:Item/my:count`
- Tick the **Hide this control** checkbox. Here's the result:



Remove InfoPath's Default Widgets

Since we already added the insert and delete buttons, we can now remove InfoPath's default functionality for adding/deleting repeating rows.

1. Select and right-click the Item repeating table and select **Repeating Table Properties**



2. Uncheck **Allow users to insert and delete rows**

Repeating Table Properties

Data Display Master/Detail Advanced

Binding

Change Binding... Choose the rows and columns shown in the repeating table.

Default settings

☐ Allow users to insert and delete rows

Edit Default Values... Edit the default values of the repeating table

Customize Commands... Customize the name of the commands used to insert and delete rows

☐ Show insert button and hint text:

Insert item

OK Cancel Apply

3. Save the changes and upload the form to FormsViewer.

Test the form

Open a new Expense Report Form. Try the insert and delete buttons in the Expense List Items table.


[Close](#)

EXPENSE REPORT

NAME

Kervi Laborte

MANAGER

Patrick Halstead

ACCOUNTING MANAGER

Patrick Halstead

REPORT DATE

4/11/2020

BUSINESS PURPOSE*

EXPENSE ITEMS

FROM: TO:

	CATEGORY *	DATE *	DESCRIPTION	MERCHANT	RECEIPT	AMOUNT *
	Select... ▼				Attach file	
 	Select... ▼				Attach file	
 	Select... ▼				Attach file	
 	Select... ▼				Attach file	
SUBTOTAL						\$0.00
LESS CASH ADVANCE						\$0.00
TOTAL						\$0.00

[Submit](#)

Congratulations! You have successfully implemented the insert and delete functionalities in FormsViewer.

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