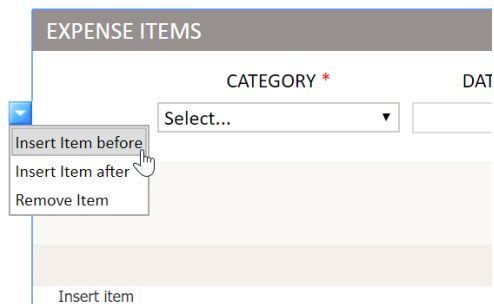


## LAB 3 - MORE DISCOVERABLE INSERT AND DELETE WIDGETS - QRULES INSERT AND DELETE COMMANDS

### OVERVIEW

InfoPath has a built-in way to insert and delete rows from Repeating Table:



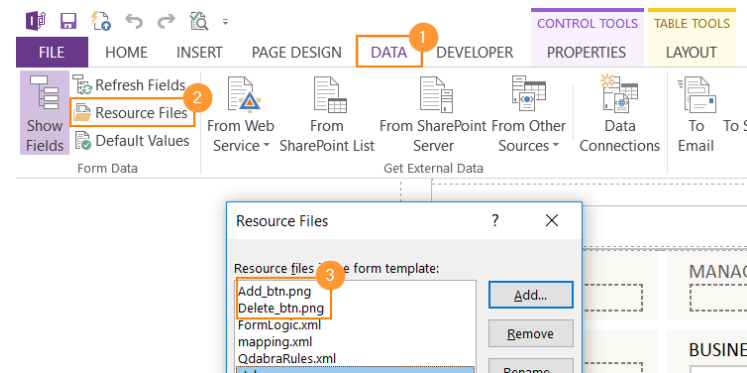
This method is easy to add but is not a convenient way of providing Insert/Delete function to users because they will have to click multiple times in the form. This document details how to add Insert and Delete widgets to your repeating table using qRules commands and save users out from multiple clicks.

### BEFORE YOU START

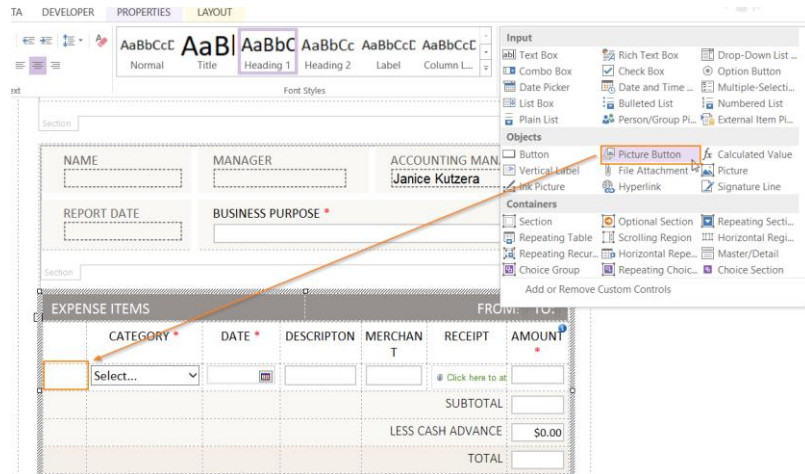
- This lab assumes that you have finished the Lab 1 and 2 Exercises. [Download](#) the latest Expense Report form template in FormsViewer and use it as a starter form for this Lab.

### ADD THE INSERT AND DELETE BUTTONS

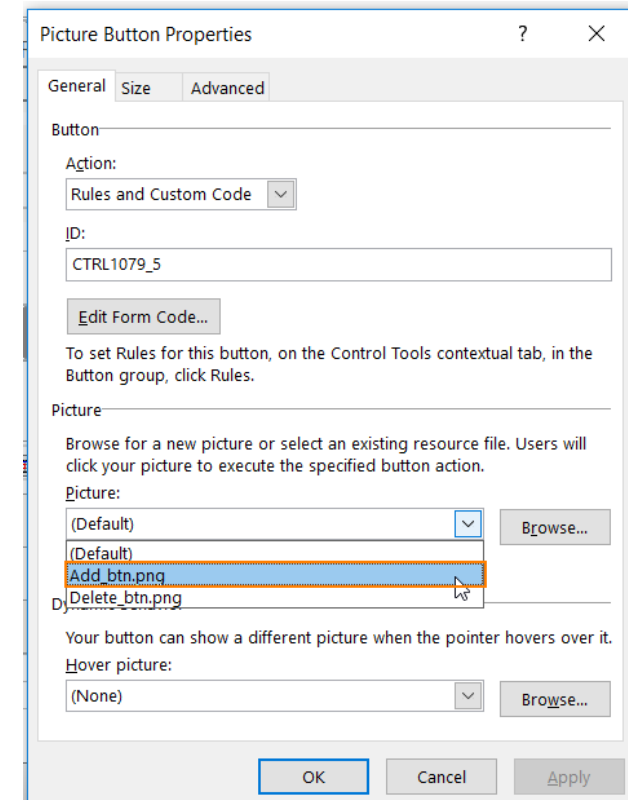
- Open the Expense Report in InfoPath Designer.
- Add the Insert and Delete button images as resource files. You can find the images in Lab 3 folder.



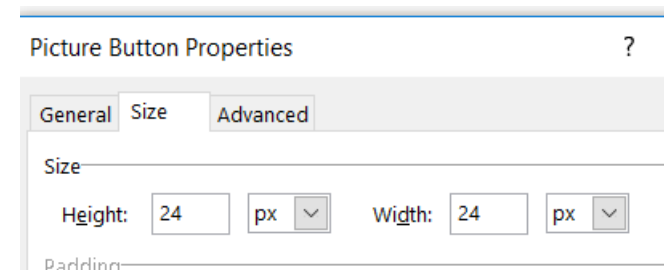
- Add two Picture buttons in the left-most part of the Expense Items repeating table.



4. Select one picture button. Right click and select **Picture Button Properties**.
5. Under **General** > **Picture** section, select the button image for insert (Add\_btn.png).

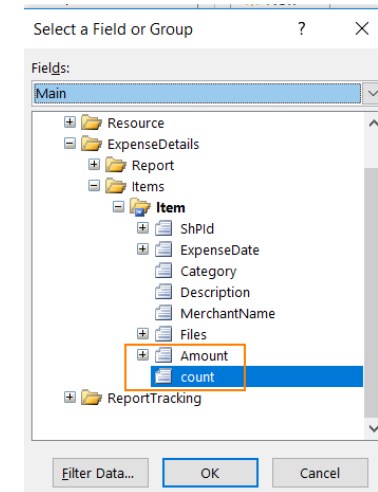


6. Under Size tab, enter 24 px as the Height and Width (resize them as desired).



7. Here's another one I added for the delete button:

| EXPENSE ITEMS                          |                      |             |
|----------------------------------------|----------------------|-------------|
|                                        | CATEGORY *           | DATE *      |
| <div> <div>+</div> <div>×</div> </div> | <div>Select...</div> | <div></div> |



## ADD THE INSERT AND DELETE COMMANDS

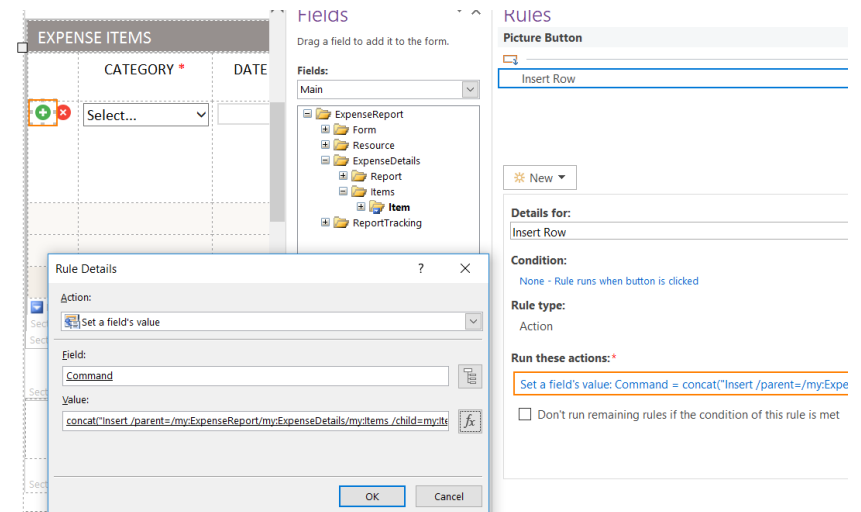
1. Select the Insert button and Click on **Manage Rules**.
2. Add a new rule and name it **Insert Row**. Rule details should have the following:

**Field:** QdabraRules Command node

**Value (add as function):**

```
concat("Insert
/parent=/my:ExpenseReport/my:ExpenseDetails/my:Items
/child=my:Item /posn=", count + 1)
```

where **count** should point to the **count** field under the **Items** repeating group in the **Main** data source



3. Next, we will add a formatting rule for the Delete button to hide it in the first row. This will prevent users from deleting all rows until there's nothing left in the repeating table. 😊  
To do this, add this condition:

Condition: **count** = 1

Don't forget to tick the **Hide this control** checkbox.

4. Then add a new action named **Delete Row**

5. Rule details should have the following:

**Field:** QdabraRules Command

**Value:**

concat("Delete  
/xpath=/my:ExpenseReport/my:ExpenseDetails/my:Items/  
my:Item[" , **count** , "]" )

where **count** should point to the **count** field under the **Items** repeating group in the **Main** data source

6. Save the XSN file and upload it again in FormsViewer.

## TEST YOUR FORM!

Go to the **Expense Report** library and click **+New**.

Try the Insert and Delete button in the Expense List Items table:

| EXPENSE ITEMS                                                                                                                                                       |             |                                                                                   |                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------|----------------------|
|                                                                                                                                                                     | CATEGORY *  | DATE *                                                                            |                      |
|                                                                                    | Select... ▼ |  | <input type="text"/> |
|   | Select... ▼ |  | <input type="text"/> |
|   | Select... ▼ |  | <input type="text"/> |
|   | Select... ▼ |  | <input type="text"/> |

## CONTACT INFORMATION

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Community: <http://www.infopathdev.com>