

COMBINE MULTIPLE TABLES FROM FILES IN A FOLDER

From all files in this Folder:

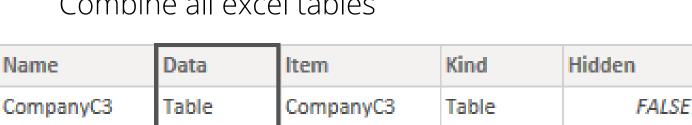
₩	■ Content ++	A ^B _C Name ▼	Data իլԻ
1	Binary	CompanyA.xlsx	Table
2	Binary	CompanyB.xlsx	Table
3	Binary	CompanyC.xlsx	Table

Table



Table

CompanyC2



CompanyC2

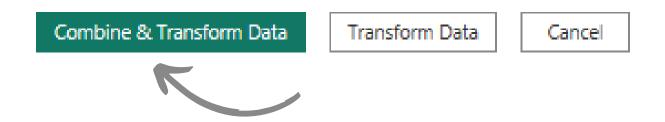
CompanyC1 CompanyC1 Table Table



FALSE

Let me set the scene...

When you connect to a Folder and choose: *Combine & Transform Data* You can select a Sample file to design logic that will be applied to all.



When all files in the folder contain a single table with the exact same name, this functionality is seriously amazing!

But what if tables in those files have a different name? Or you want to get and transform multiple tables from those files?

Let's design a method to deal with that!



Create a Folder location Parameter

Use a Parameter for the File location, that way if the folder is moved, you can easily update this to restore the Query.

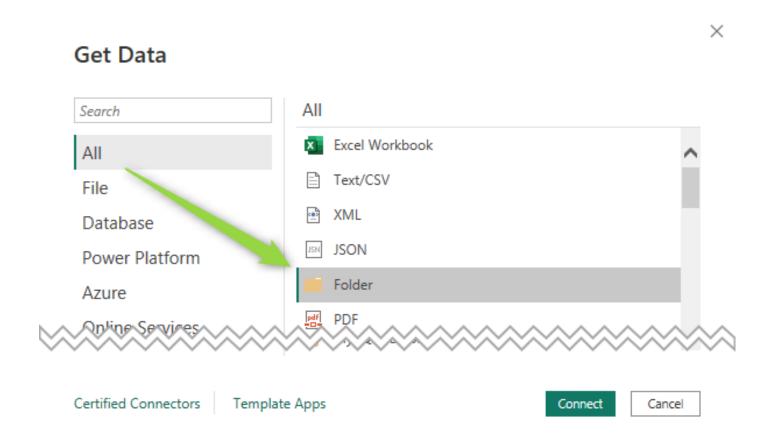
Cancel



Get Data

Select: New Source / More

This window will be shown, in the "All" section, you'll find "Folder"



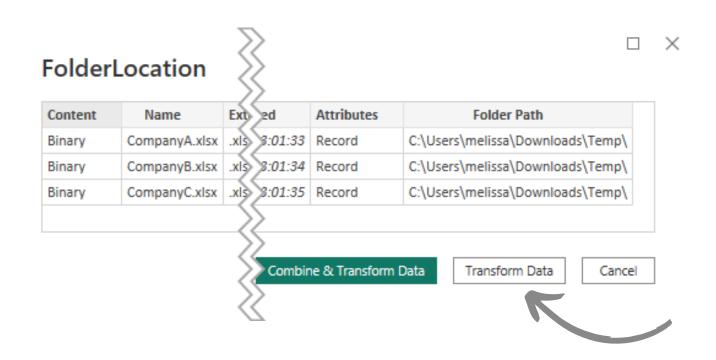
Switch to Parameter And enter the *FileLocation* parameter name



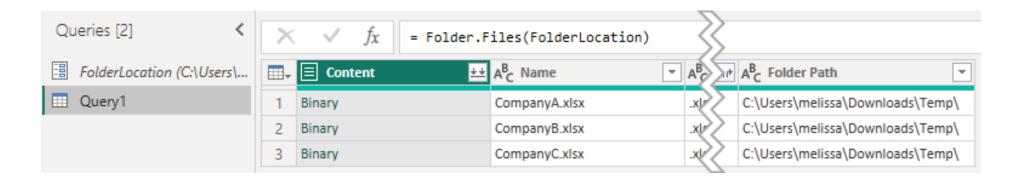


Select "Transform Data"

Instead of Combine & Transform Data, select: Transform Data



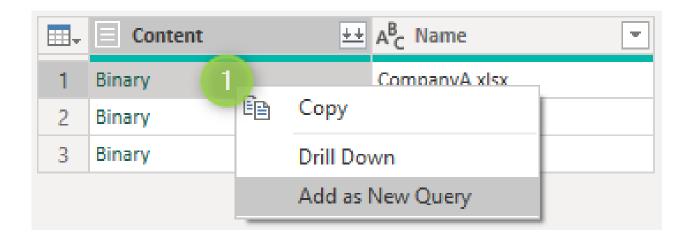
This will add *Query1* and shows the folder content





Create a helper Query

Right click in the white space (1), select Add as New Query

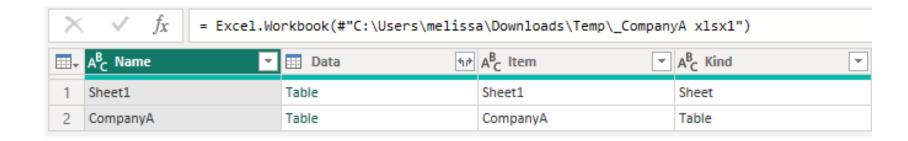


Double click the file (2)



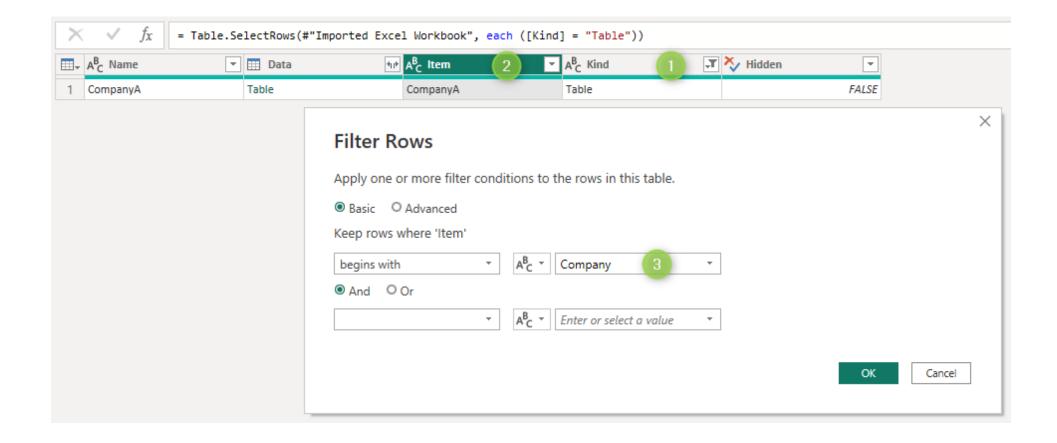
This calls Excel. Workbook and shows the sample file content



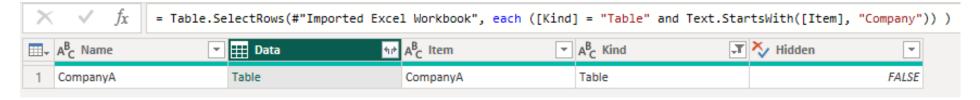


Create a filter that identifies all Excel tables

Use the User Interface to create a set of filters that can be applied to all files in the folder and obtains the required tables from each of them.



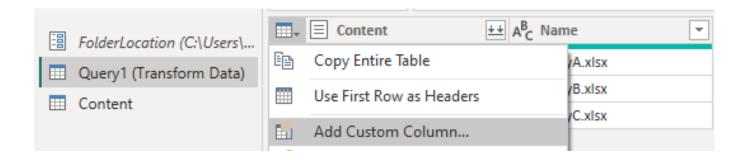
Combine filters into a single step using **and/or** keywords, when more than one step was created (validate the result). Like below.



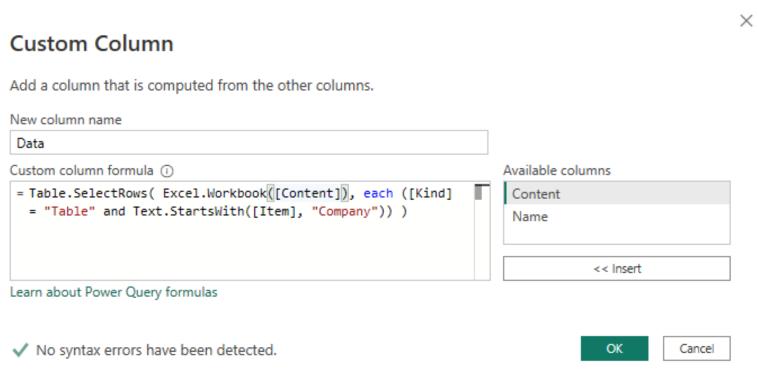


Transfer the logic generated with the UI

Time to translate all these actions to *Query1*. Tip. Click on that minitable icon in the top left of the table to *Add a Custom Column*.



Copy the single step filter logic from the helper query. Replace the initial table #"Imported Excel Workbook" with Excel. Workbook and insert the [Content] column by double clicking that name on the right.



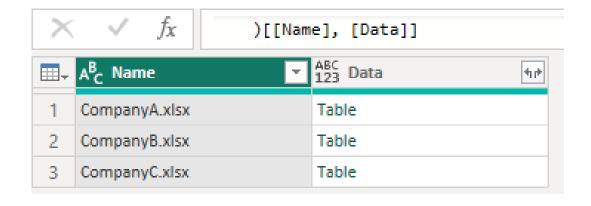


Preview the result

Click in the whitespace, this will show an additional preview section down below. This file returns multiple tables, all meeting our criteria.

\times	√ f _x	each T	able.SelectRows(Excel.Workb	ook([Content]),	each	([Kind]	= "Table	" and	Text.StartsWit	h([Item],	"Company")
 ∓	Content	<u>++</u>	A ^B _C Name	▼ And 123	Data	4114						
1	Binary		CompanyA.xlsx	Tab	е							
2	Binary		CompanyB.xlsx	Tabl	e							
3	Binary		CompanyC.xlsx	Tab	e							
Vame	Da	ta Item	Kind	Hidden								
Comp	anyC3 Tal	ole Compa	nyC3 Table	FALSE								
Comp	anyC2 Tal	ole Compa	nyC2 Table	FALSE								
Comp	anyC1 Tal	ole Compa	nyC1 Table	FALSE								

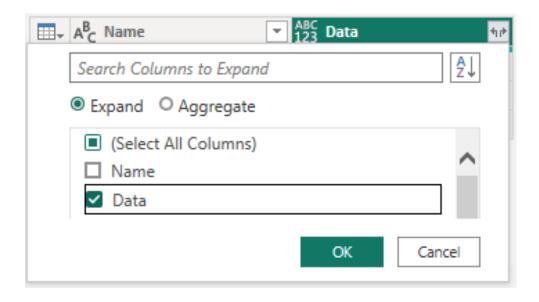
Select the columns of interest using the UI or use projection, to return only the Name and Data Column



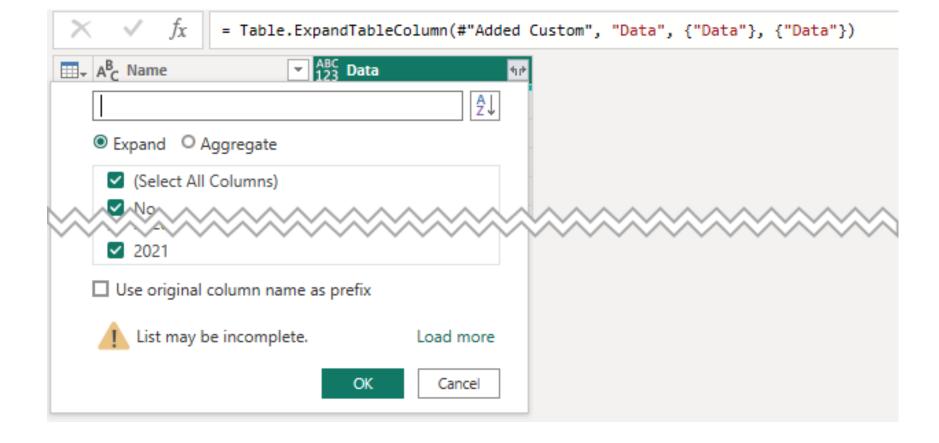


Extract Data columns

Use the sideward arrows to expand the Data column and get the Data field



Repeat this for the extracted Data as well



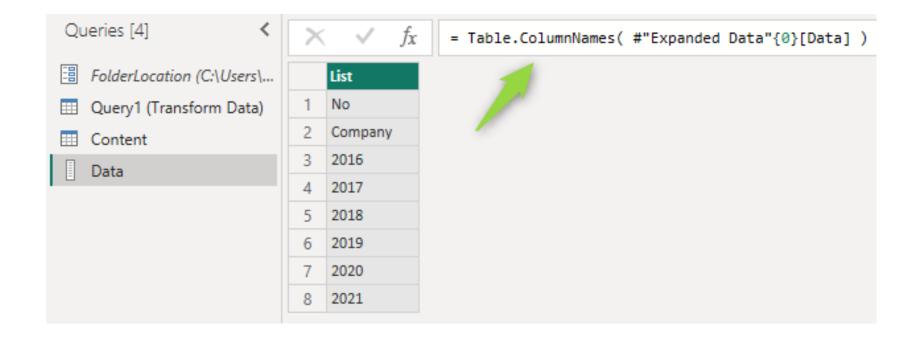


Improve the code for the final Expand step

In the Applied steps, select the step before the final Expand operation. Right click in the whitespace beside a table and *Add as New Query*

	A ^B _C Name	▼ Nac Data		41 19
1	CompanyA.xlsx	Table	-	
2	CompanyB.xlsx	Table		Сору
3	CompanyC.xlsx	Table		Drill Down
4	CompanyC.xlsx	Table		Add as New Query
5	CompanyC.xlsx	Table		

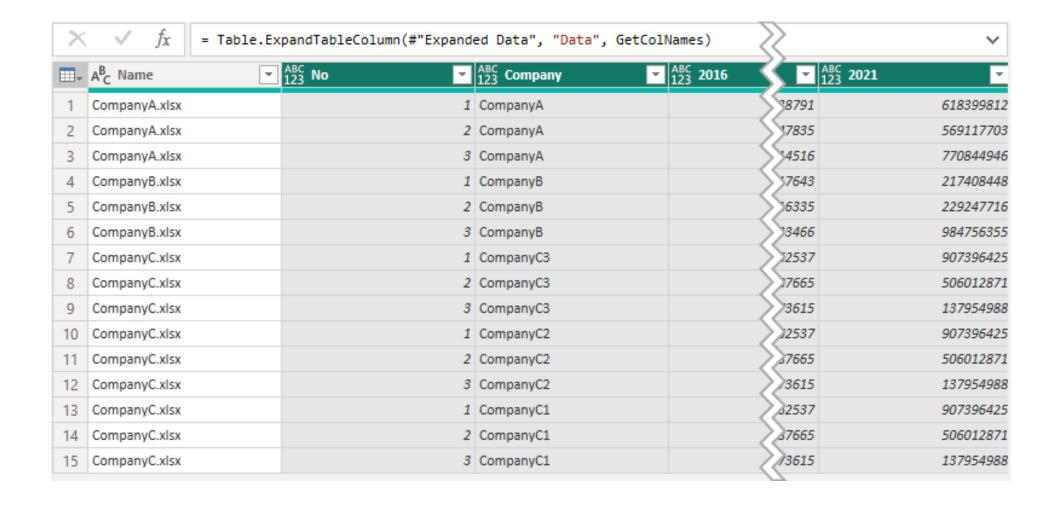
In the formula bar wrap *Table.ColumnNames* around the drill down syntax, as illustrated here, to return a list with Column Names. Rename this query, I've called it: *GetColNames*





Improve the code for the final Expand step

Select the final Expand step in *Query1* and replace the hard coded lists with column names with the name of the helper query: *GetColNames*

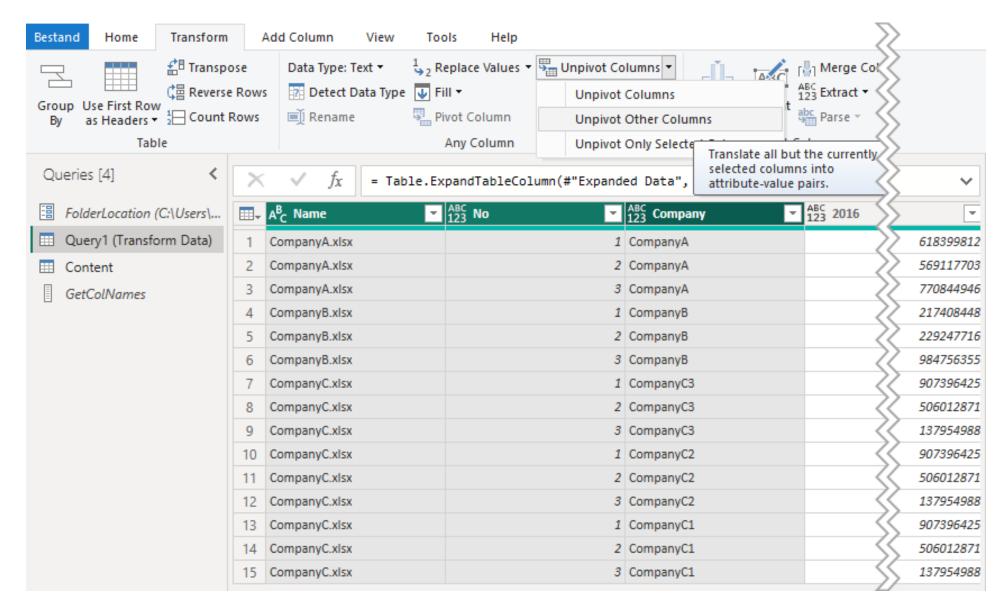


Don't forget to "Disable load" for both helper queries. You can do so by right clicking their name in the Queries Pane.



Final steps

Select all row header columns, go to Transform/ Unpivot Columns/ Unpivot Other Columns.



And set appropriate column types for all columns. Done!





I LOVE SOLVING PRACTICAL PROBLEMS WITH POWER QUERY/ M.

