

Query Editor Introduction

Microsoft Power BI

Join two data source

Budget

	CountryRegion	Brand	Budget
1	China	A. Datum	5000
2	China	Adventure Works	36500
3	China	Contoso	94500
4	China	Fabrikam	90800
5	China	Litware	65000
6	China	Northwind Traders	12000
7	China	Proseware	20000
8	China	Southridge Video	22500
9	China	Tailspin Toys	8000
10	China	The Phone Company	30000
11	China	Wide World Importers	45000
12	Germany	A. Datum	13500

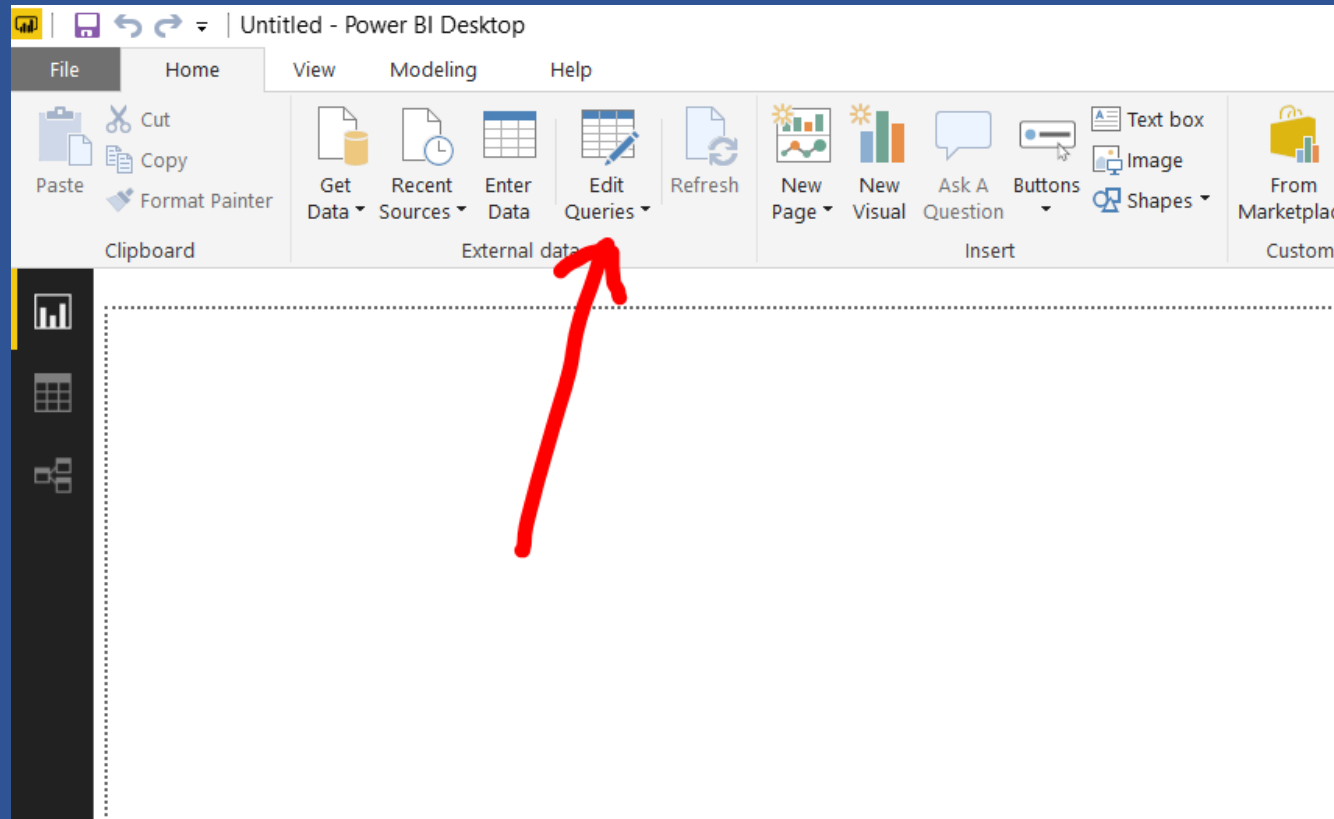


Sales 2015

	CountryRegion	Brand	Month	Sale 2013	Sale 2014	Sale 2015
1	China	A. Datum	January	3234	NULL	1935
2	China	A. Datum	February	6270	7059	NULL
3	China	A. Datum	March	4352	NULL	NULL
4	China	A. Datum	April	3814	NULL	NULL
5	China	A. Datum	May	6234	NULL	NULL
6	China	A. Datum	June	5571	3216	NULL
7	China	A. Datum	July	7424	NULL	NULL
8	China	A. Datum	August	NULL	NULL	800
9	China	A. Datum	September	1254	1617	396
10	China	A. Datum	October	1881	3042	936
11	China	A. Datum	November	NULL	3653	NULL
12	China	A. Datum	December	6135	2810	NULL
13	China	Adventure Works	January	12418.26	5735.48	1559.87

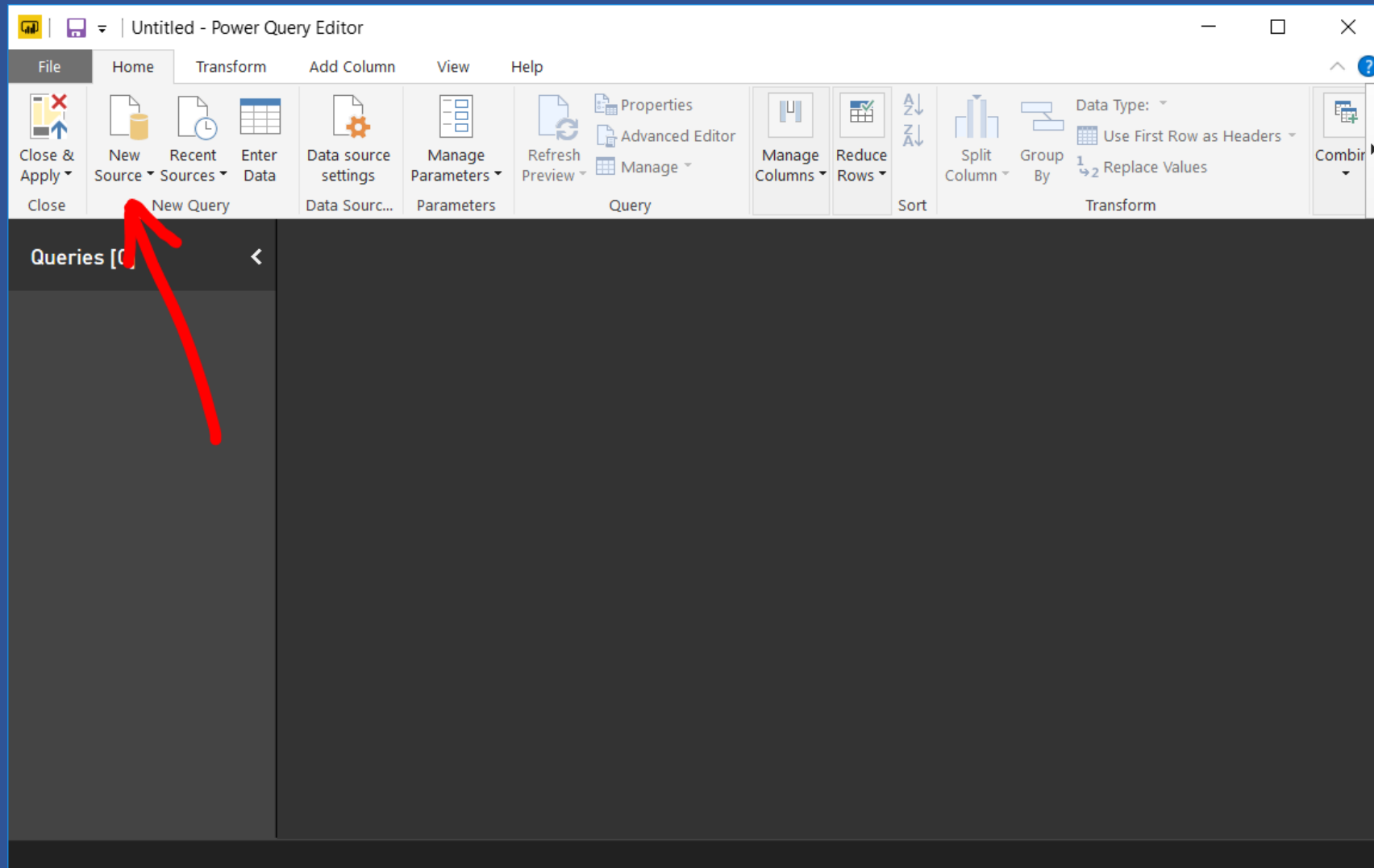
Microsoft Power BI

File / New / Edit Queries



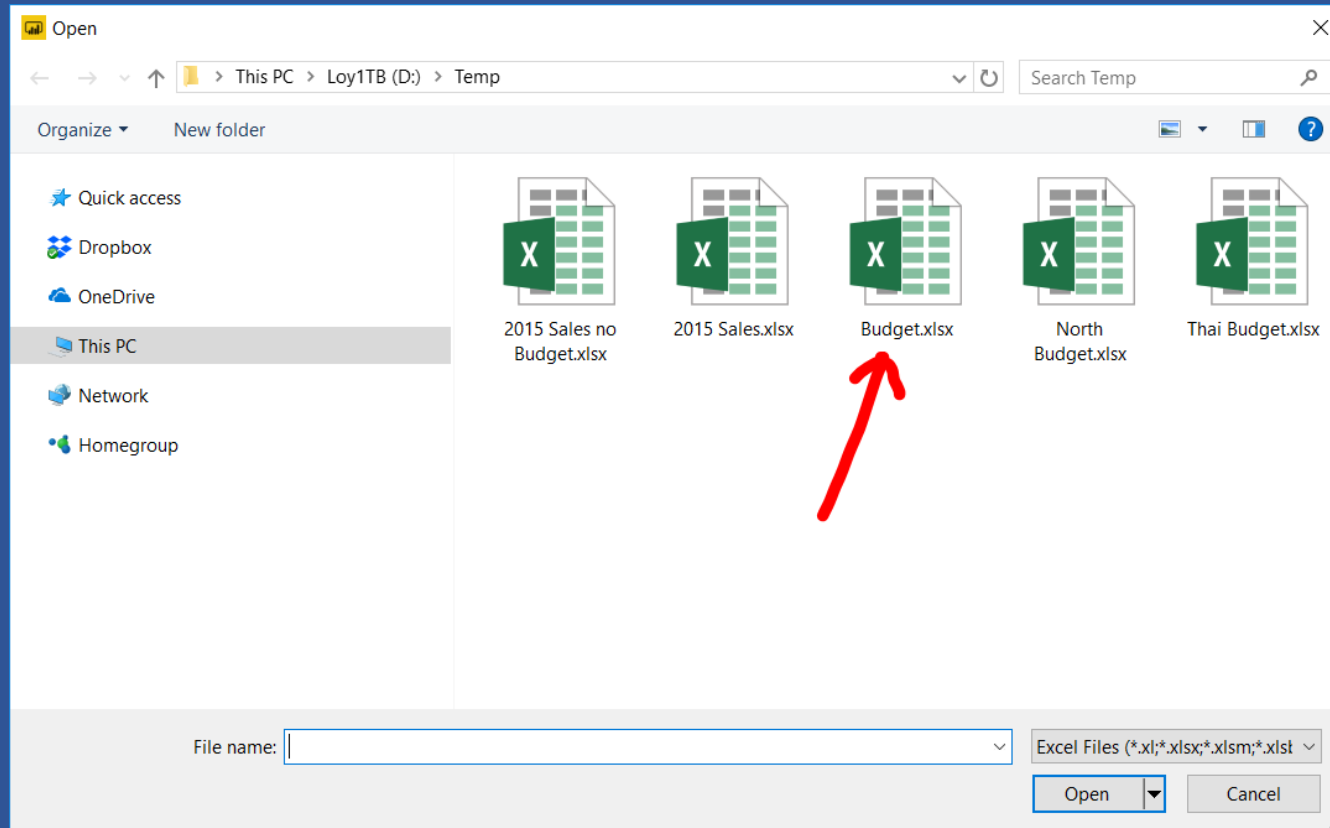
Microsoft Power BI

Query Editor / New Source



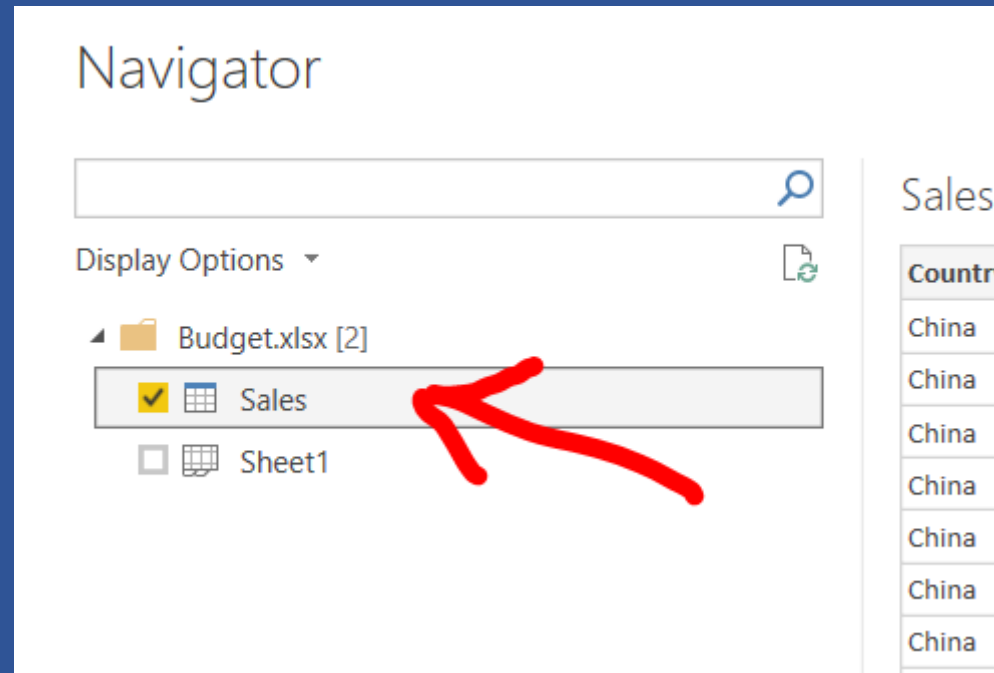
Microsoft Power BI

Budget.xlsx



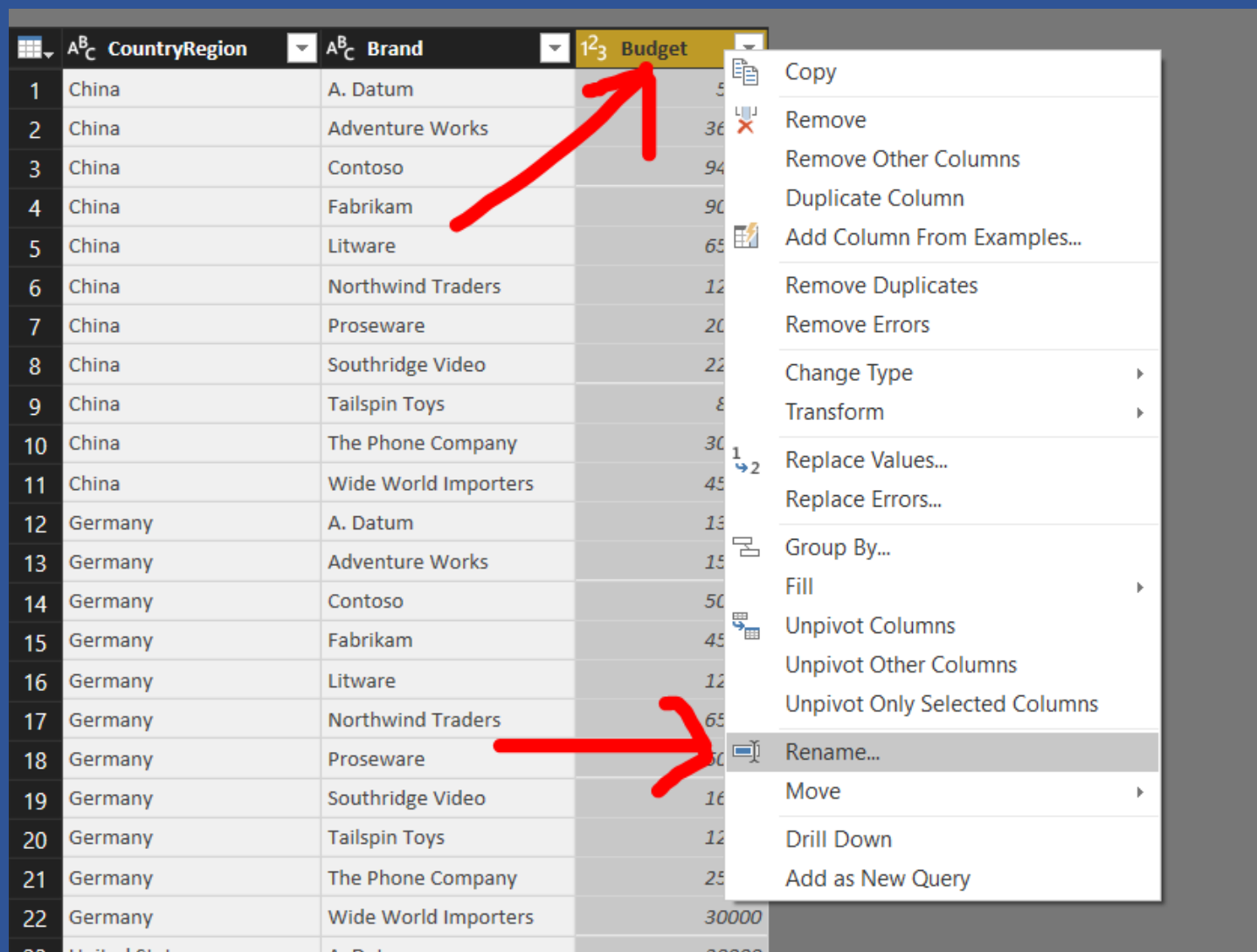
Microsoft Power BI

Sales



Microsoft Power BI

Rename Budget to Budget YTD

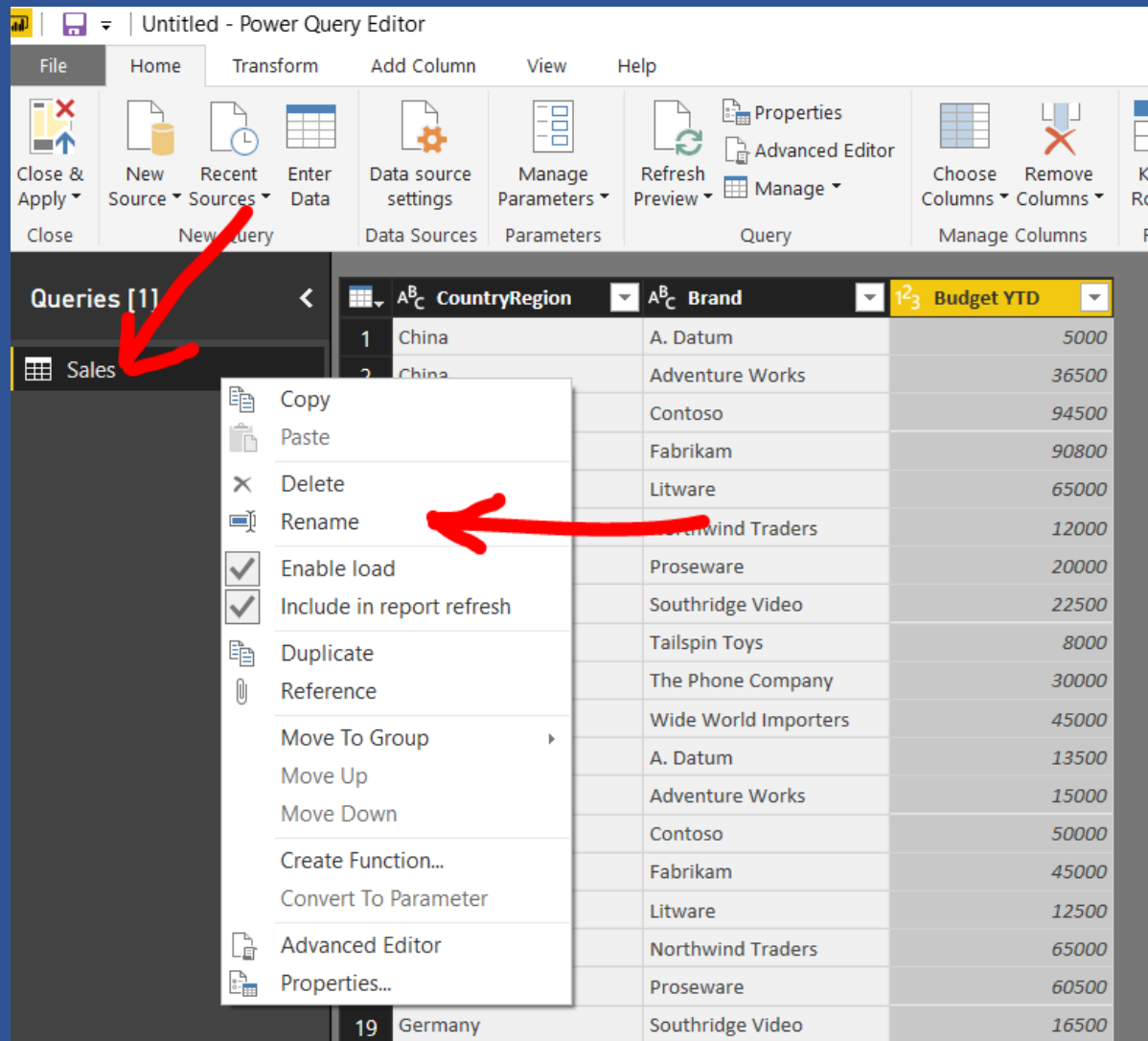


	CountryRegion	Brand	Budget
1	China	A. Datum	
2	China	Adventure Works	
3	China	Contoso	
4	China	Fabrikam	
5	China	Litware	
6	China	Northwind Traders	
7	China	Proseware	
8	China	Southridge Video	
9	China	Tailspin Toys	
10	China	The Phone Company	
11	China	Wide World Importers	
12	Germany	A. Datum	
13	Germany	Adventure Works	
14	Germany	Contoso	
15	Germany	Fabrikam	
16	Germany	Litware	
17	Germany	Northwind Traders	
18	Germany	Proseware	
19	Germany	Southridge Video	
20	Germany	Tailspin Toys	
21	Germany	The Phone Company	
22	Germany	Wide World Importers	
23	United States	A. Datum	

- Copy
- Remove
- Remove Other Columns
- Duplicate Column
- Add Column From Examples...
- Remove Duplicates
- Remove Errors
- Change Type
- Transform
- Replace Values...
- Replace Errors...
- Group By...
- Fill
- Unpivot Columns
- Unpivot Other Columns
- Unpivot Only Selected Columns
- Rename...
- Move
- Drill Down
- Add as New Query

Microsoft Power BI

Rename Sales to Budget

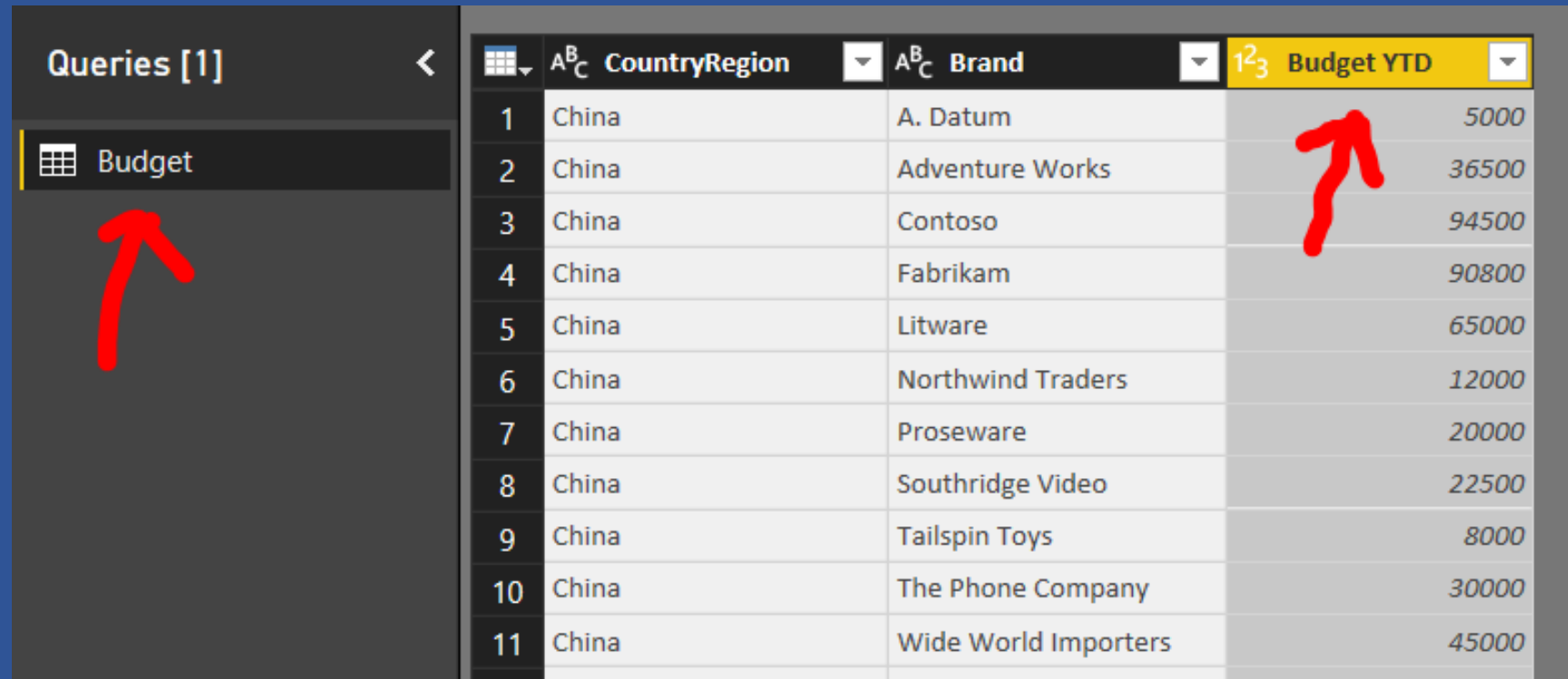


The screenshot shows the Microsoft Power Query Editor interface. The 'Queries' list on the left contains a query named 'Sales'. A right-click context menu is open over the 'Sales' query, with the 'Rename' option highlighted by a red arrow. The main data table shows columns for CountryRegion, Brand, and Budget YTD.

	CountryRegion	Brand	Budget YTD
1	China	A. Datum	5000
2	China	Adventure Works	36500
		Contoso	94500
		Fabrikam	90800
		Litware	65000
		Northwind Traders	12000
		Proseware	20000
		Southridge Video	22500
		Tailspin Toys	8000
		The Phone Company	30000
		Wide World Importers	45000
		A. Datum	13500
		Adventure Works	15000
		Contoso	50000
		Fabrikam	45000
		Litware	12500
		Northwind Traders	65000
		Proseware	60500
19	Germany	Southridge Video	16500

Microsoft Power BI

Result after renaming



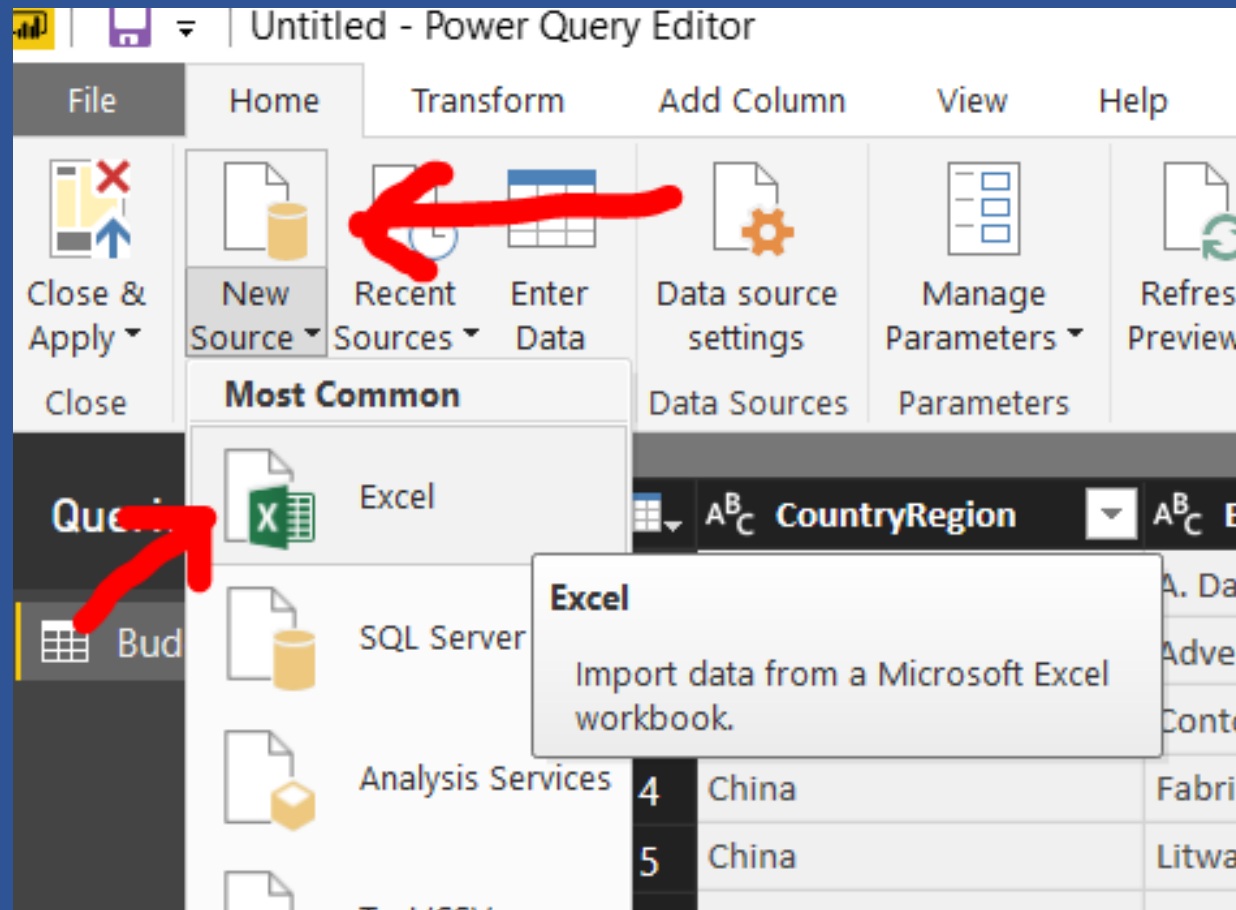
Queries [1] <

Budget

	CountryRegion	Brand	Budget YTD
1	China	A. Datum	5000
2	China	Adventure Works	36500
3	China	Contoso	94500
4	China	Fabrikam	90800
5	China	Litware	65000
6	China	Northwind Traders	12000
7	China	Proseware	20000
8	China	Southridge Video	22500
9	China	Tailspin Toys	8000
10	China	The Phone Company	30000
11	China	Wide World Importers	45000

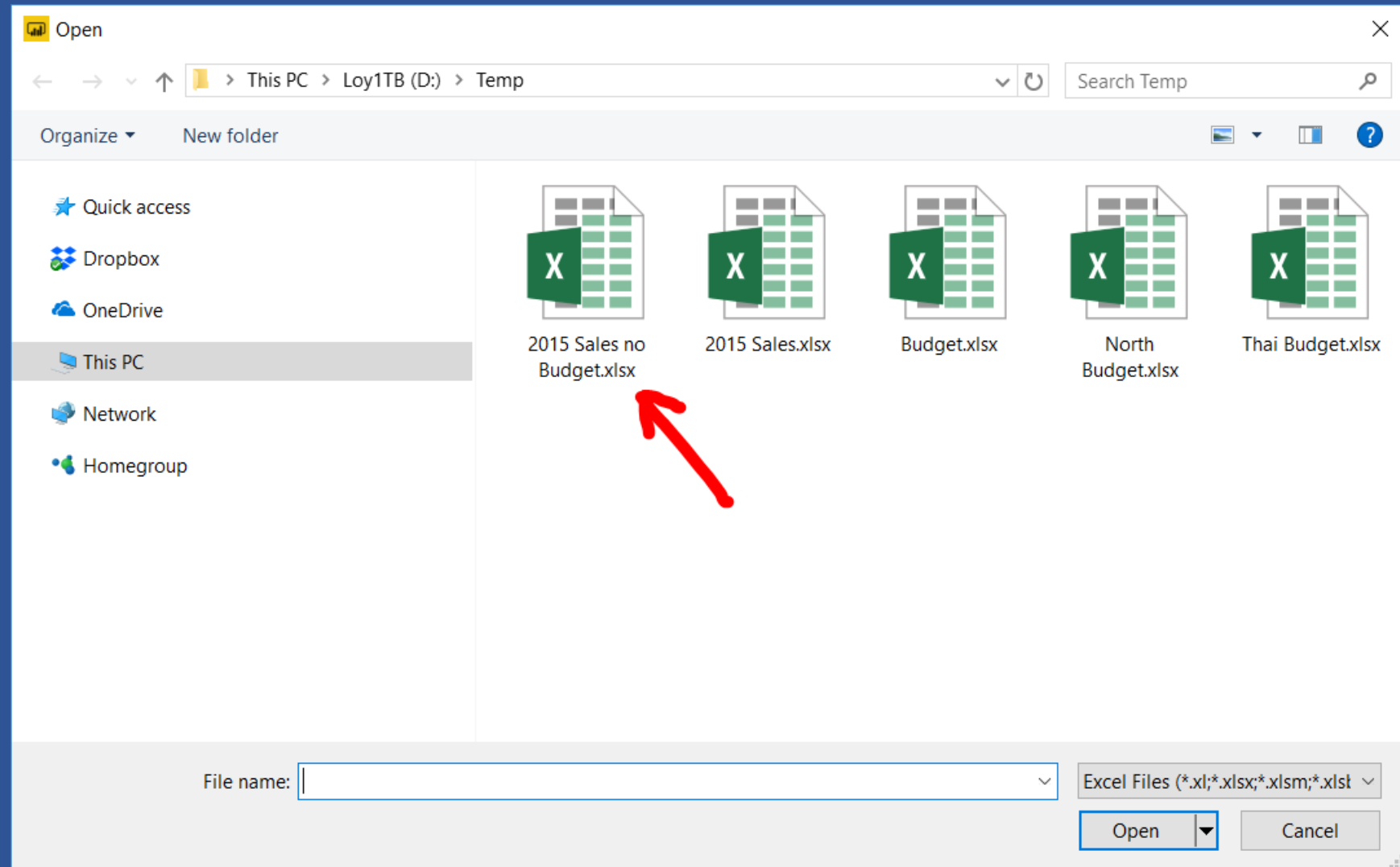
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New Source / Excel



Microsoft Power BI

2015 Sales no Budget.xlsx



Microsoft Power BI

Sales / Load

Navigator

Search


Display Options ▾

2015 Sales no Budget.xlsx [2]

- ☒ Sales
- ☐ Sales Worksheet

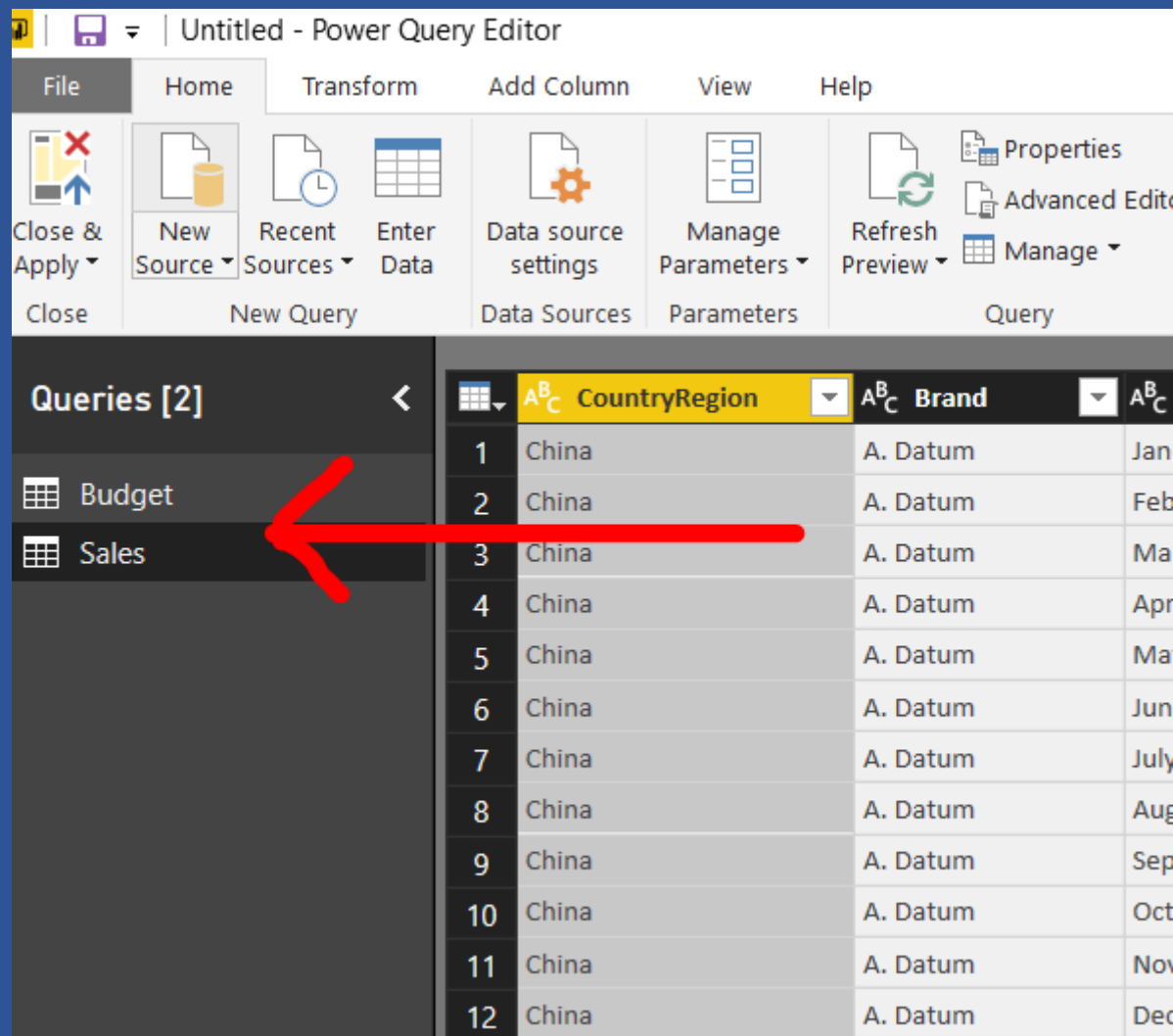
Sales

CountryRegion
China
China
China
China
China
China
China
China



Microsoft Power BI

Make sure that you have two data source



Microsoft Power BI

Click **Merge Queries**

Untitled - Power Query Editor

File Home Transform Add Column View Help

Close & Apply New Source Recent Sources Enter Data Data source settings Manage Parameters Refresh Preview Properties Advanced Editor Manage Query Choose Columns Remove Columns Keep Rows Remove Rows Split Columns Group Data Type: Text Use First Row as Headers Replace Values Merge Queries Append Queries Combine Files

Queries [2] Budget Sales

	CountryRegion	Brand	Month	1.2 Sale 2013	1.2 Sale 2014	1.2 Sale 2015
1	China	A. Datum	January	3234	null	1935
2	China	A. Datum	February	6270	7059	null
3	China	A. Datum	March	4352	null	null
4	China	A. Datum	April	3814	null	null
5	China	A. Datum	May	6234	null	null
6	China	A. Datum	June	5571	3216	null
7	China	A. Datum	July	7424	null	null
8	China	A. Datum	August	null	null	800
9	China	A. Datum	September	1254	1617	396
10	China	A. Datum	October	1881	3042	936
11	China	A. Datum	November	null	3653	null
12	China	A. Datum	December	6135	2810	null
13	China	Adventure Works	January	12418.26	5735.48	1559.87
14	China	Adventure Works	February	31770.26	null	2937.9
15	China	Adventure Works	March	3689.85	5489.23	11163.94
16	China	Adventure Works	April	499.9	9087	2298.7
17	China	Adventure Works	May	null	9203.92	null
18	China	Adventure Works	June	15790	119.99	1948.5
19	China	Adventure Works	July	9938.12	2819.82	null
20	China	Adventure Works	August	14035.71	6881	12775.4
21	China	Adventure Works	September	16638.85	null	null
22	China	Adventure Works	October	11864.76	null	2085

Microsoft Power BI

Join two data sources

Merge

Select a table and matching columns to create a merged table.

Sales

CountryRegion	1	Brand	2	Month	Sale 2013	Sale 2014	Sale 2015
China		A. Datum		January	3234	null	1935
China		A. Datum		February	6270	7059	null
China		A. Datum		March	4352	null	null
China		A. Datum		April	3814	null	null
China		A. Datum		May	6234	null	null

Budget

CountryRegion	1	Brand	2	Budget YTD
China		A. Datum		5000
China		Adventure Works		36500
China		Contoso		94500
China		Fabrikam		90800
China		Litware		65000

Join Kind

Left Outer (all from first, matching from second)

i The selection has matched 362 out of the first 382 rows.

OK **Cancel**

Microsoft Power BI

Select **Budget YTD**

The screenshot shows the Microsoft Power BI Desktop interface. The ribbon at the top includes the 'Transform' tab, which is active. The 'Expand' dialog box is open, showing the 'Budget' column selected in the table. The dialog has a search bar 'Search Columns to Expand' and two radio buttons: 'Expand' (selected) and 'Aggregate'. Below these, there is a list of columns to expand: '(Select All Columns)', 'CountryRegion', 'Brand', and 'Budget YTD'. The 'Budget YTD' checkbox is checked. At the bottom of the dialog, the checkbox 'Use original column name as prefix' is also checked. The 'OK' button is highlighted in yellow. Red arrows point to the 'Expand' radio button, the 'Budget YTD' checkbox, and the 'OK' button.

Month	1.2 Sale 2013	1.2 Sale 2014	1.2 Sale 2015	Budget
January	323			
February	627			
March	435			
April	381			
May	623			
June	557			
July	742			
August	nt			
September	125			
October	188			
November	nt			
December	6135	2810	null	Table
January	12418.26	5735.48	1559.87	Table

Microsoft Power BI

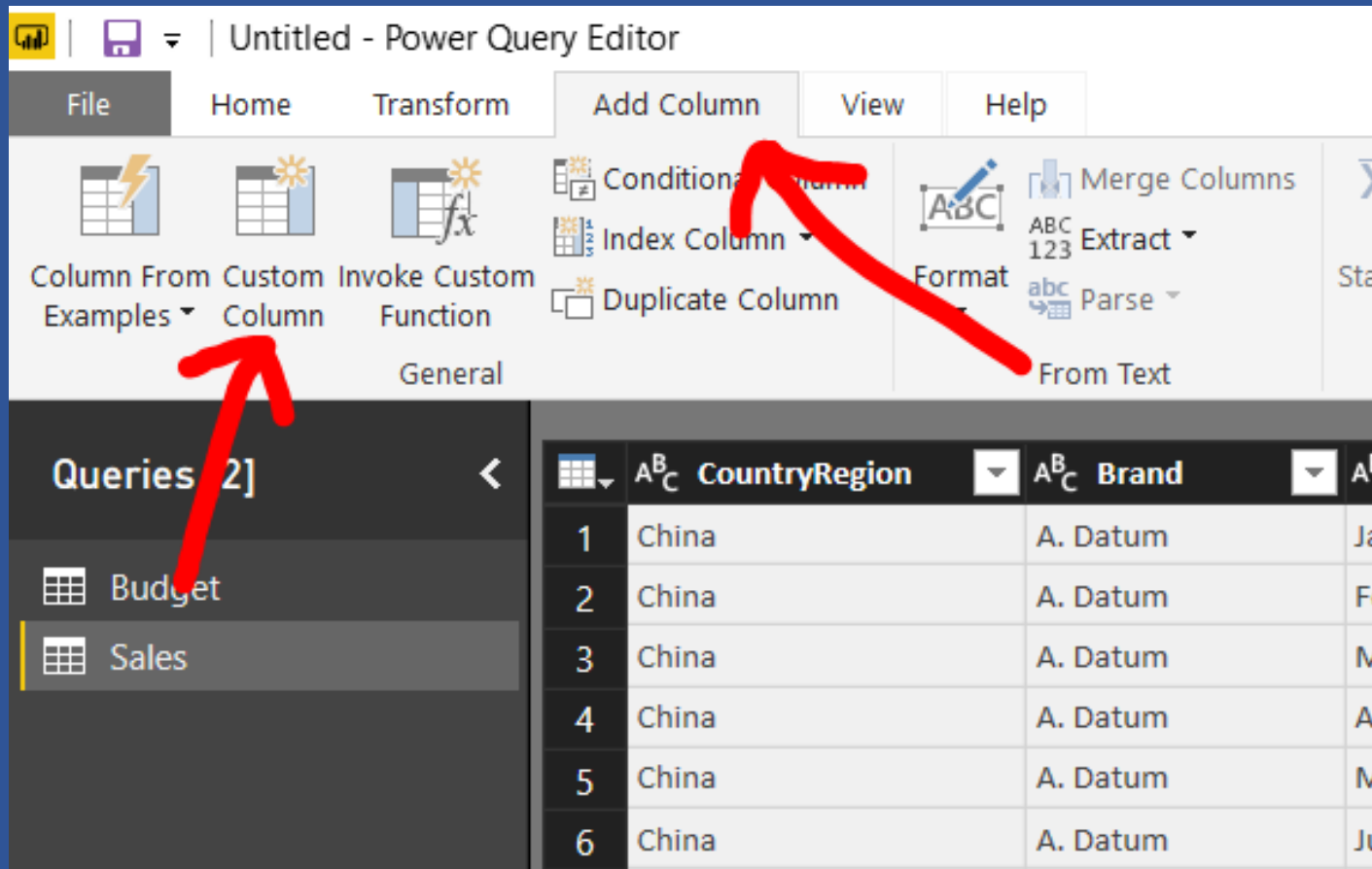
Rename **Budget.Budget YTD** to **Budget YTD**

2015	1 ² ₃	Budget.Budget YTD
1935		5000
null		5000
null		5000
null		5000
null		5000
null		5000
null		5000
null		5000

1.2 Sale 2015	1 ² ₃	Budget YTD
null	1935	5000
059	null	5000
null	null	5000
null	null	5000
null	null	5000
216	null	5000
null	null	5000
null	800	5000

Microsoft Power BI

Add Column / Custom Column



Microsoft Power BI

Budget YTD / << Insert

Custom Column

New column name

Custom column formula:

= [Budget YTD]

Available columns:

CountryRegion

Brand

Month

Sale 2013

Sale 2014

Sale 2015

Budget YTD

<< Insert

OK

Cancel

[Learn about Power BI Desktop formulas](#)

✓ No syntax errors have been detected.

Microsoft Power BI

Type / 12 press OK


Custom Column

New column name

Custom

Custom column formula:

= [Budget YTD] / 12



Available columns:

CountryRegion

Brand

Month

Sale 2013

Sale 2014

Sale 2015

Budget YTD

<< Insert

[Learn about Power BI Desktop formulas](#)

✓ No syntax errors have been detected.

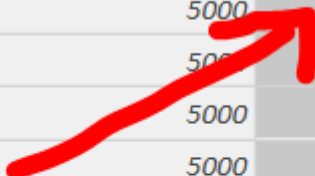
OK

Cancel

Microsoft Power BI

Make sure you have new column name **Custom** / Rename to **Budget**

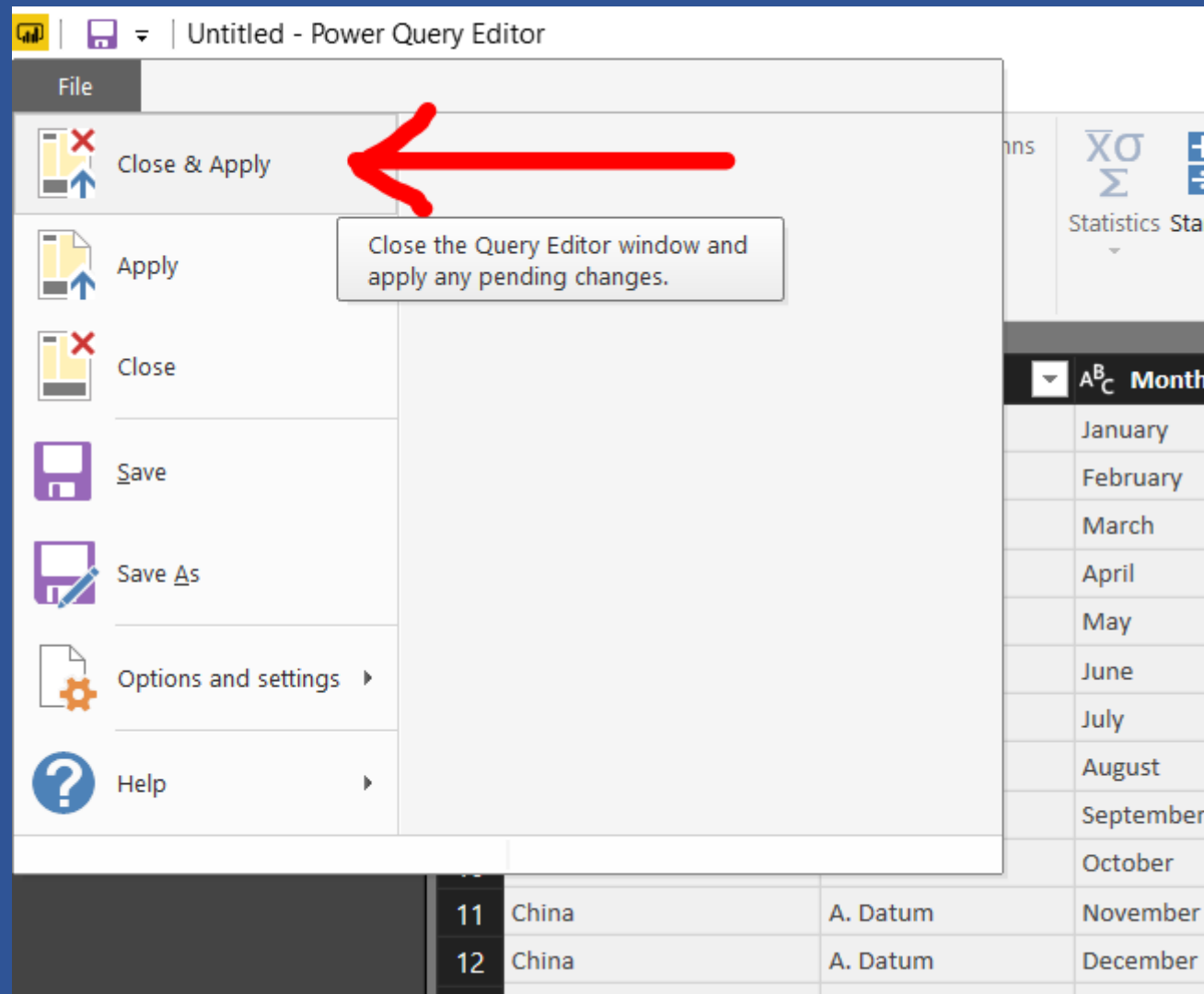
2015	1 ² ₃	Budget YTD	ABC 123 Custom
1935		5000	416.6666667
null		5000	416.6666667
null		5000	416.6666667
null		5000	416.6666667
null		5000	416.6666667
null		5000	416.6666667
null		5000	416.6666667
800		5000	416.6666667
396		5000	416.6666667



2015	1 ² ₃	Budget YTD	ABC 123 Budget
1935		5000	416.6666667
null		5000	416.6666667
null		5000	416.6666667
null		5000	416.6666667
null		5000	416.6666667
null		5000	416.6666667
null		5000	416.6666667
null		5000	416.6666667
800		5000	416.6666667
800		5000	416.6666667

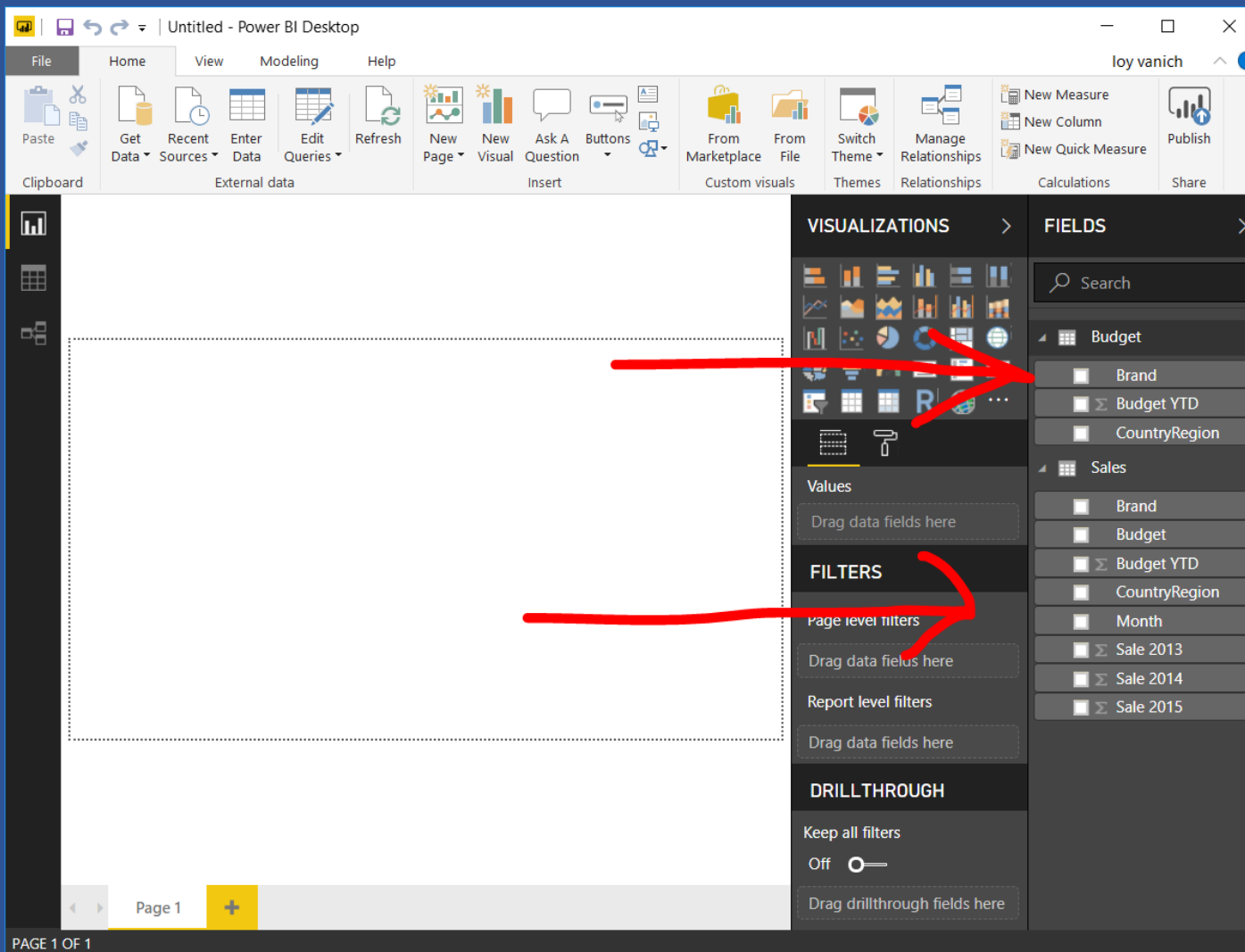
Microsoft Power BI

File / Close & Apply



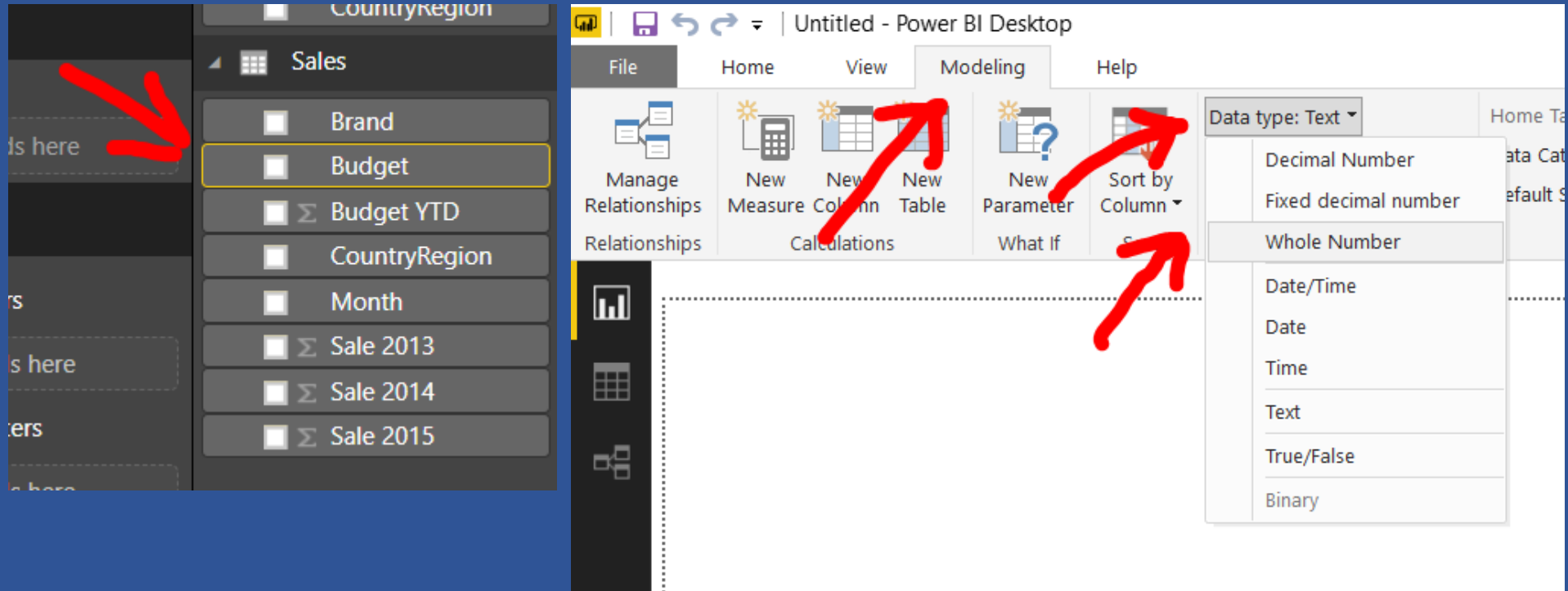
Microsoft Power BI

Make sure you have two data source / Sale have column **Budget**



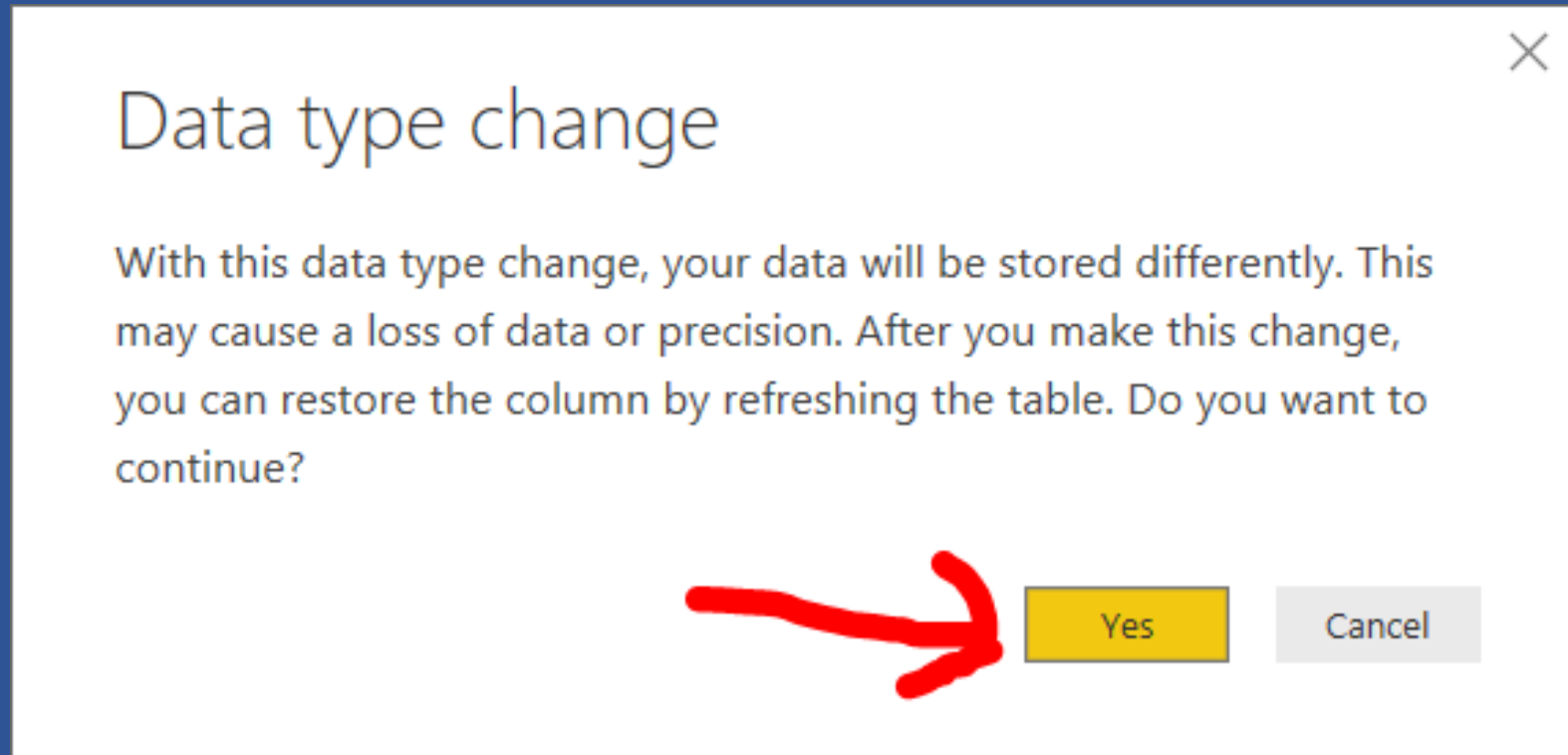
Microsoft Power BI

Click Budget / Modeling, Data type, Whole Number



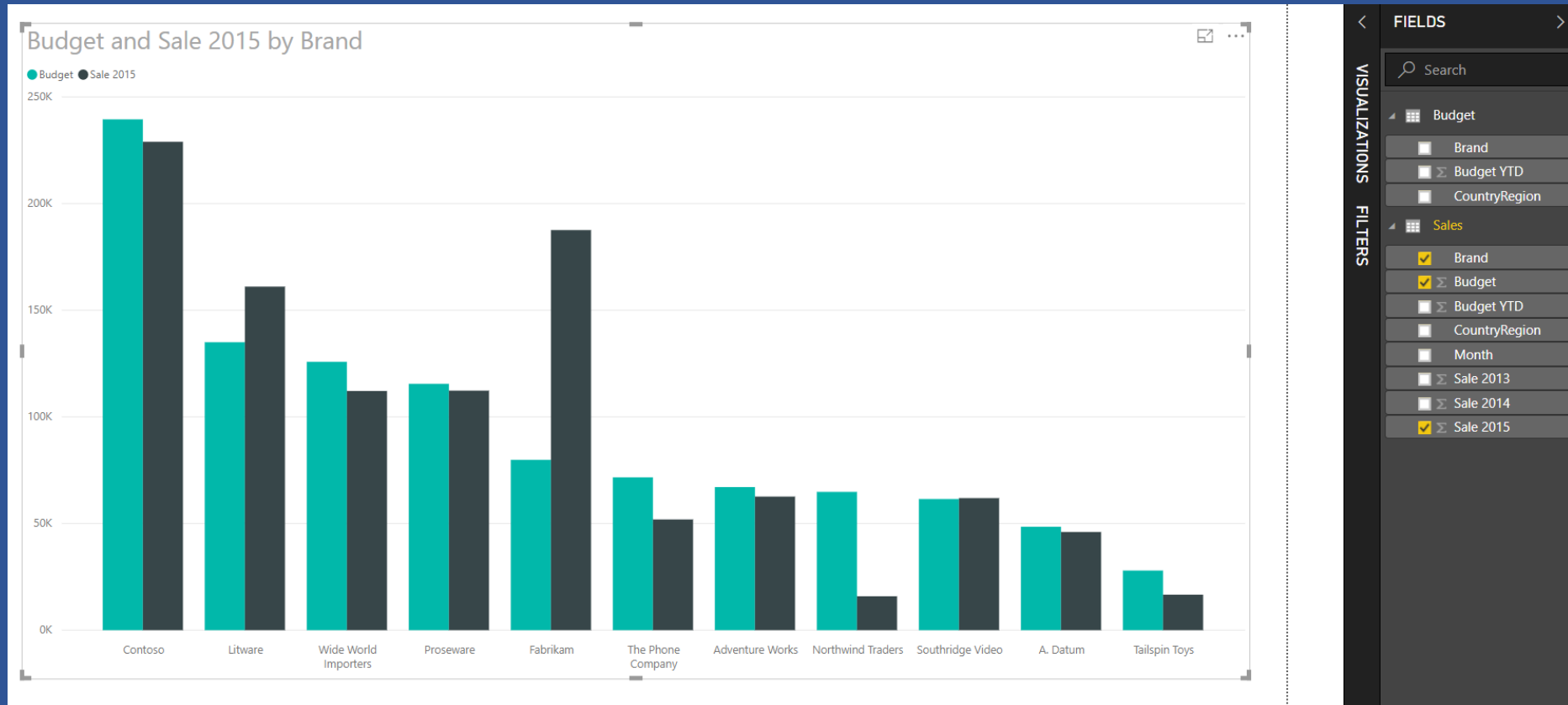
Microsoft Power BI

Confirm data type change



Microsoft Power BI

Make Clustered column chart Budget and Sale 2015 by Brand



Microsoft Power BI

Exercise

New / Create all steps / Make Budget by CountryRegion map

