

DR. ALVIN'S PUBLICATIONS

POWER QUERY

WITH EXCEL
DR. ALVIN ANG



1 | PAGE

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I. EXAMPLE 1: DATA CLEANSING

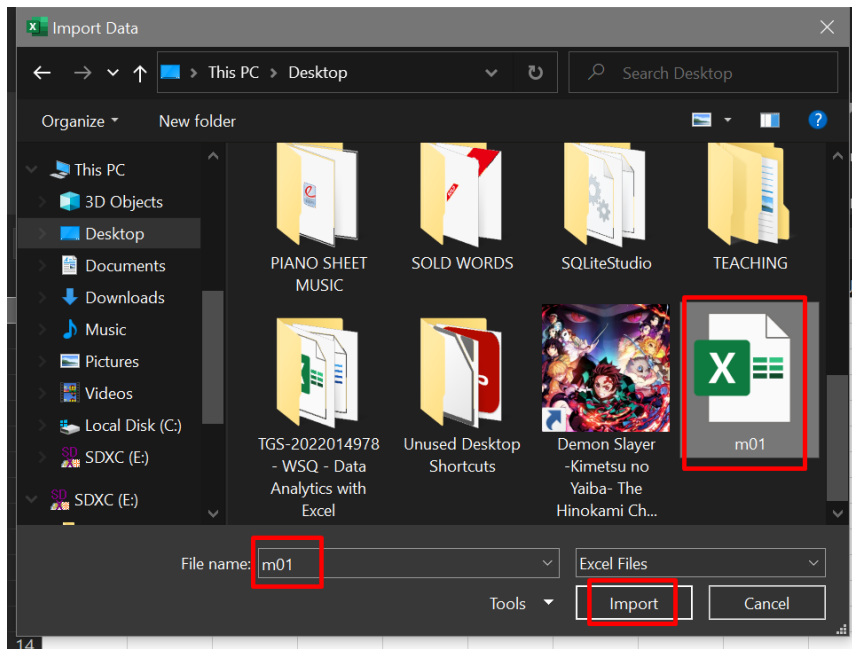
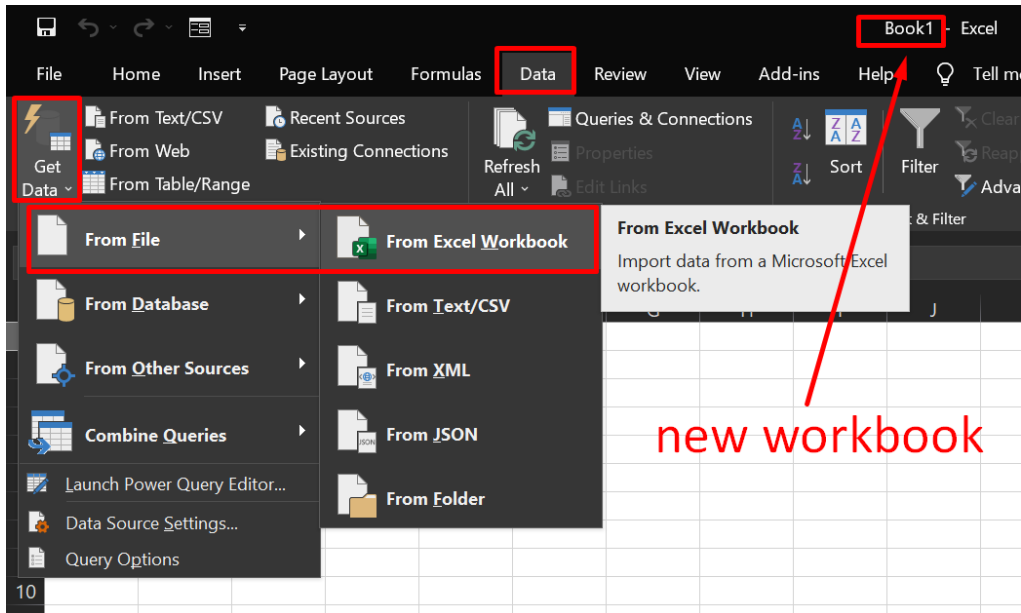
<https://www.alvinang.sg/s/m01.xlsx>

A. PREVIEWING DATA

Power Query Demo first row is useless

Name	Gender	Department	Salary	Location	Start Date
Ab Lebrhan	Male	NULL	\$82,240.77	USA	3/4/2020
Abbie Tann	Female	Business Development	\$116,518.12	USA	5/24/2019
Abe Gayter	Male	Training	USA	USA	5/3/2019
Abigael Basire	Male	Engineering	\$61,624.77	8 Parliament Lane - Wellington, NZ	8/19/2019
Abigael Basire	Male	Engineering	\$61,624.77	USA	5/21/2020
Abramo Labbez	Female	Research and Development	\$76,998.50	USA	7/27/2019
Abran Danielsky	Female	Engineering	\$32,716.22	1 Infinite Loop, Los Angeles, CA, USA	5/17/2020
Addi Studeard	Female	Product Management	\$72,502.61	USA	7/11/2020
Addi Studeard	Female	Product Management	\$72,502.61	8 Parliament Lane - Wellington, NZ	7/5/2020
Adda Penwright	Male	Research and Development	\$28,132.33	8 Parliament Lane - Wellington, NZ	7/20/2019
Addy Pimblett	Male	Product Management	\$66,461.92	USA	4/4/2020
Adela Dowsett	Male	Support	\$95,017.10	USA	11/15/2019
Adelina Cheeseman	Male	Support	\$45,512.10	1 Infinite Loop, Los Angeles, CA, USA	12/1/2019
Adella Hartsborne	Female	Human Resources	\$41,155.71	USA	3/2/2019
Adella Hartsborne	Female	Human Resources	\$41,155.71	8 Parliament Lane - Wellington, NZ	10/7/2019
Adey Ryal	Female	Legal	\$32,496.88	USA	11/28/2019
Adi Seawright	Female	Marketing	\$48,591.73	1 Infinite Loop, Los Angeles, CA, USA	1/10/2019
Adolph Hartin	Male	Product Management	\$89,960.60	USA	6/19/2020
Adolph McNailey	Male	Business Development	\$85,918.61	8 Parliament Lane - Wellington, NZ	4/7/2019
Adrienne Gave	Male	Engineering	\$78,443.78	USA	1/26/2019
Aeriel Aickin	Male	Product Management	\$37,550.51	8 Parliament Lane - Wellington, NZ	9/10/2019
Aeriel Cueli	Male	Legal	\$108,285.34	8 Parliament Lane - Wellington, NZ	8/19/2019
Agnes Collicott	Female	Sales	\$83,748.26	8 Parliament Lane - Wellington, NZ	1/21/2020
Aida Bleacher	Male	Product Management	\$87,806.25	8 Parliament Lane - Wellington, NZ	8/1/2019
Aislinn O'Sullivan	Female	Marketing	\$114,597.86	USA	2/25/2019
Aileen McCritchie	Male	Business Development	\$80,169.42	USA	2/21/2020
Aindrea Lepormand	Female	Human Resources	\$11,180.72	8 Parliament Lane - Wellington, NZ	2/23/2020
Aldrich Glenn	Male	Business Development	\$90,864.32	1 Infinite Loop, Los Angeles, CA, USA	4/7/2020
Aldrich Glenn	Male	Business Development	\$90,864.32	8 Parliament Lane - Wellington, NZ	7/10/2020
Aleksandr Botha	Male	Sales	\$60,264.93	8 Parliament Lane - Wellington, NZ	3/19/2019
Alexandros Rackley	Female	Legal	\$75,733.74	1 Infinite Loop, Los Angeles, CA, USA	7/2/2019
Alexis Portail	Female	Sales	\$60,327.47	USA	4/18/2019
Alexis Gottfrey	Male	Engineering	\$114,465.93	USA	7/5/2019
Alford Gerard	Female	Engineering	\$37,128.34	USA	3/16/2019
Alfred Peplay	Female	Human Resources	\$60,576.12	1 Infinite Loop, Los Angeles, CA, USA	12/20/2019
Alfred Peplay	Female	Human Resources	\$60,576.12	USA	5/7/2020
Alli Roubert	Female	Engineering	\$69,457.74	8 Parliament Lane - Wellington, NZ	4/18/2020
Alic Bagg	Male	Legal	\$113,747.56	1 Infinite Loop, Los Angeles, CA, USA	9/28/2019

B. IMPORTING DATA



Navigator

Search:

Select multiple items

Display Options ▾

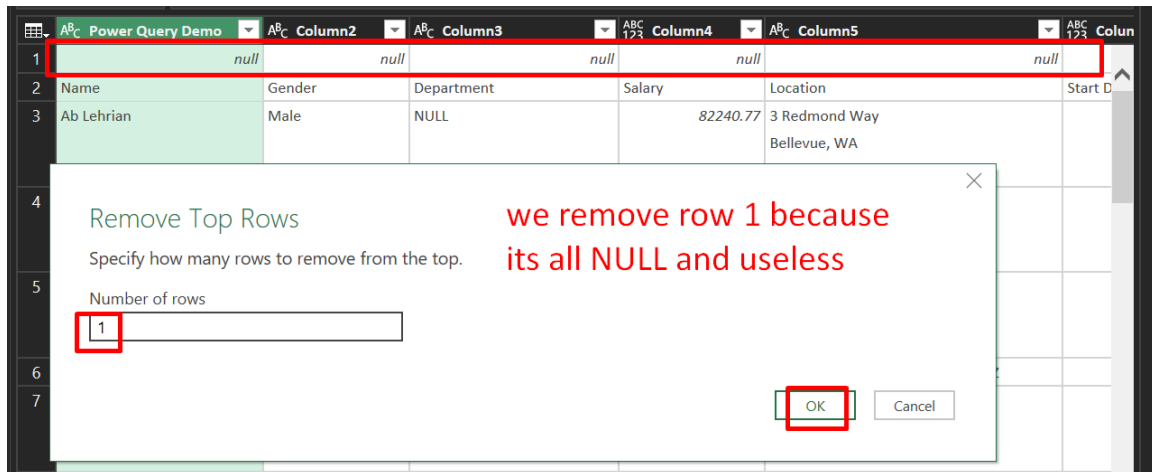
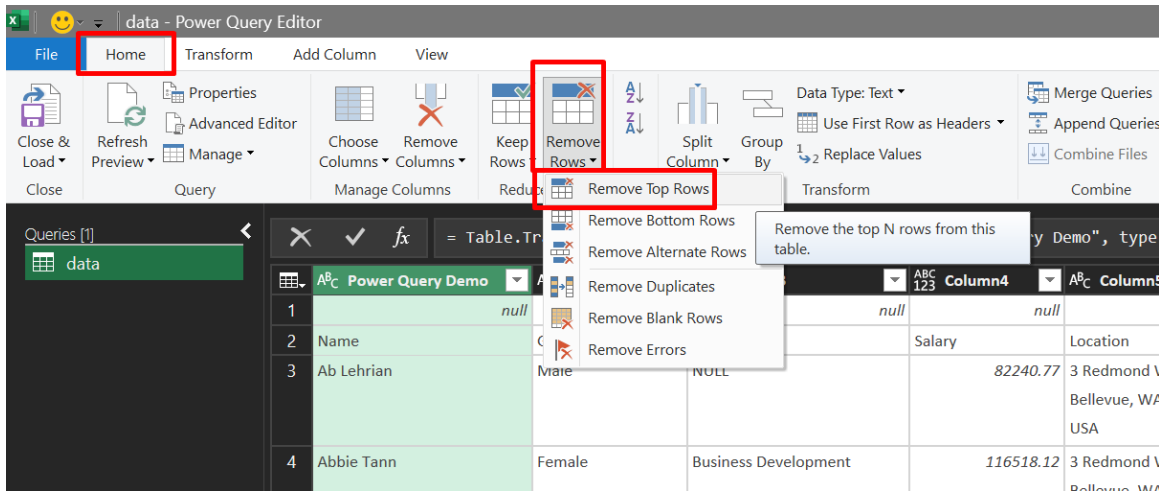
m01.xlsx [1]

data

Power Query Demo	Column2	Column3	Column4	Column5
	Gender	Department	Salary	Location
Ab Lehrian	Male	NULL	82240.77	3 Re
Abbie Tann	Female	Business Development	116518.12	3 Re
Abe Gayter	Male	Training	null	3 Re
Abigael Basire	Male	Engineering	61624.77	8 Pe
Abigael Basire	Male	Engineering	61624.77	3 Re
Abramo Labbez	Female	Research and Development	76998.38	3 Re
Abran Danielsky	Female	Engineering	32716.22	1 In
Addi Studdard	Female	Product Management	72502.61	3 Re
Addi Studdard	Female	Product Management	72502.61	8 Pe
Addia Penwright	Male	Research and Development	28132.33	8 Pe
Addy Pimblett	Male	Product Management	66461.92	3 Re
Adela Dowsett	Male	Support	95017.1	3 Re
Adelina Cheeseman	Male	Support	45512.1	1 In
Adella Hartshorne	Female	Human Resources	41155.71	3 Re
Adella Hartshorne	Female	Human Resources	41155.71	8 Pe
Adey Ryal	Female	Legal	32496.88	3 Re
Adi Seawright	Female	Marketing	48591.73	1 In
Adolph Hartin	Male	Product Management	89960.6	3 Re
Adolph McNalley	Male	Business Development	85918.61	8 Pe
Adrianne Gave	Male	Engineering	78443.78	3 Re

Load ▾ **Transform Data** Cancel

C. REMOVE BLANK TOP ROW



Editor

Add Column View

Choose Columns Remove Columns Keep Rows Remove Rows Sort Split Column Group By Transform Data Type: Any Merge Queries Append Queries Combine Files Manage Parameters Data source settings New Source Recent Sources

Use First Row as Headers

Table.Skip(#"changed Type",1)

1	Name	Gender	Department	Salary	Location	Start D
2	Ab Lehrian	Male	NULL	82240.77	3 Redmond Way Bellevue, WA USA	
3	Abbie Tann	Female	Business Development	116518.12	3 Redmond Way Bellevue, WA USA	
4	Abe Gayter	Male	Training	null	3 Redmond Way Bellevue, WA USA	
5	Abigael Basire	Male	Engineering	61624.77	8 Parliament Lane - Wellington, NZ	
6	Abigael Basire	Male	Engineering	61624.77	3 Redmond Way Bellevue, WA USA	
7	Abramo Labbez	Female	Research and Development	76998.38	3 Redmond Way	

Power Query Demo Name
Column2 Gender
Column3 Department
Column4 Salary
Column5 Location

Query Settings

PROPERTIES
Name
data
All Properties

APPLIED STEPS
Source
Navigation
Promoted Headers
Changed Type
Removed Top Rows

D. REMOVE BLANK COLUMNS

The screenshot shows the Power Query Editor interface. In the ribbon, the 'Remove Columns' button is highlighted with a red box. A red arrow points from this button to two columns in the data table, 'Column7' and 'Column8', which are highlighted in green. Red text overlaid on the green area says 'shift select these 2 blank columns'. The data table has the following columns: 'Name', 'Salary', 'Location', 'Start Date', 'Column7', and 'Column8'. The 'Column7' and 'Column8' columns contain 'null' values.

	1.2 Salary	ABC Location	Start Date	ABC Column7	ABC Column8
	82240.77	3 Redmond Way Bellevue, WA USA	3/4/2020	null	null
lopment	116518.12	3 Redmond Way Bellevue, WA USA	5/24/2019	null	null
	null	3 Redmond Way Bellevue, WA USA	5/3/2019	null	null
	61624.77	8 Parliament Lane - Wellington, NZ	8/19/2019	null	null
	61624.77	3 Redmond Way Bellevue, WA USA	5/21/2020	null	null
Development	76998.38	3 Redmond Way Bellevue, WA USA	7/27/2019	null	null
	32716.22	1 Infinite Loop, Los Angeles, CA, USA	5/17/2020	null	null
gement	72502.61	3 Redmond Way Bellevue, WA USA	7/11/2020	null	null
gement	72502.61	8 Parliament Lane - Wellington, NZ	7/17/2020	null	null

E. DATA CLEANSING

1. REPLACING NULL FROM GENDER COLUMN

The screenshot shows the Power Query Editor interface. The 'Transform' ribbon is active, and the 'Replace Values' button is highlighted. A dialog box titled 'Replace Values' is open, showing the following fields:

- Value To Find: null
- Replace With: UNCERTAIN
- Advanced options: expanded
- Buttons: OK, Cancel

The background table shows the following data:

Name	Gender	Department	Salary	Location	Start Date
Alfred Peplay	Female				
Alfred Peplay	Female				
Ali Roubert	null				
Alic Bagg	Male				
Alicea Pudsall	Male				
Alida Welman	Male				
Alida Welman	Male				
Alikee Jecock	Female				

2. REPLACING NULL FROM DEPARTMENT COLUMN

The screenshot shows the Power Query Editor interface. The 'Transform' ribbon is active, and the 'Replace Values' button is highlighted. A dialog box titled 'Replace Values' is open, showing the following fields:

- Value To Find: NULL
- Replace With: UNKNOWN
- Advanced options: expanded
- Buttons: OK, Cancel

The background table shows the following data:

Gender	Department	Salary	Location	Start Date
Male	NULL	82240.77	3 Redmond Way Bellevue, WA USA	
Female	Business Development	116518.12	3 Redmond Way Bellevue, WA	

3. REMOVING STAFF WITH NO SALARY

	Gender	Department	1.2 Salary	Location
1	Male	UNKNOWN	82240.77	3 Redmond Bellevue, W USA
2	Female	Business Development	116518.12	3 Redmond Bellevue, W USA
3	Male	Training	null	3 Redmond Bellevue, W USA
4	Male	Engineering	61624.77	8 Parliamen
5	Male	Engineering	61624.77	3 Redmond Bellevue, W USA
6	Female	Research and Development	76998.38	3 Redmond Bellevue, W USA
7	Female	Engineering	32716.22	1 Infinite Lo
8	Female	Product Management	72502.61	3 Redmond Bellevue, W USA
9	Female	Product Management	72502.61	8 Parliamen

we want to remove staff with
no salary

The screenshot shows a filter menu for the '1.2 Salary' column. The menu includes options for sorting (Ascending, Descending, Clear Sort), filtering (Clear Filter, Remove Empty), and number filters. A search bar is present above a list of values. The 'null' option is selected, and the 'OK' button is highlighted.

Gender Department 1.2 Salary

- Sort Ascending
- Sort Descending
- Clear Sort
- Clear Filter
- Remove Empty
- Number Filters

Search

- (Select All)
- null
- 28132.33
- 28160.79
- 28305.08
- 28329.77
- 28481.16
- 28576.84
- 28866.78
- 28871.39
- 28974.02

List may be incomplete. Load more

OK Cancel

F. BACKTRACING STEPS TO UNDO

we are able to backtrack any of our steps (to undo) here

	Gender	Department	Salary	Location	Start Date
1	Male	UNKNOWN	82240.77	3 Redmond Way Bellevue, WA USA	3/4/2020
2	Female	Business Development	116518.12	3 Redmond Way Bellevue, WA USA	5/24/2019
3	Male	Engineering	61624.77	8 Parliament Lane - Wellington, NZ	8/19/2019
4	Male	Engineering	61624.77	3 Redmond Way Bellevue, WA USA	5/21/2020
5	Female	Research and Development	76998.38	3 Redmond Way Bellevue, WA USA	7/27/2019
6	Female	Engineering	32716.22	1 Infinite Loop, Los Angeles, CA, USA	5/17/2020
7	Female	Product Management	72502.61	3 Redmond Way Bellevue, WA USA	7/11/2020
8	Female	Product Management	72502.61	8 Parliament Lane - Wellington, NZ	7/17/2020
9	Male	Research and Development	28132.33	8 Parliament Lane - Wellington, NZ	7/20/2019
10	Male	Product Management	66461.92	3 Redmond Way Bellevue, WA	4/1/2020

6 COLUMNS 999+ ROWS

PREVIEW DOWNLOADED AT 7:51 PM

G. CREATING A NEW COLUMN CALLED COUNTRY

Use examples from the current selection to create a new column in this table. (Ctrl+Shift+E)

select this column

APc	Gender	APc Department	1.2 Salary	APc Location	Start Date
1	Male	UNKNOWN	82240.77	3 Redmond Way Bellevue, WA USA	
2	Female	Business Development	116518.12	3 Redmond Way Bellevue, WA USA	
3	Male	Engineering	61624.77	8 Parliament Lane - Wellington, NZ	
4	Male	Engineering	61624.77	3 Redmond Way Bellevue, WA USA	
5	Female	Research and Development	76998.38	3 Redmond Way Bellevue, WA USA	
6	Female	Engineering	32716.22	1 Infinite Loop, Los Angels, CA, USA	
7	Female	Product Management	72502.61	3 Redmond Way Bellevue, WA USA	
8	Female	Product Management	72502.61	8 Parliament Lane - Wellington, NZ	
9	Male	Research and Development	28132.33	8 Parliament Lane - Wellington, NZ	
10	Male	Product Management	66461.92	3 Redmond Way Bellevue, WA	

Add Column From Examples

Enter sample values to create a new column (Ctrl+Enter to apply).
 Transform: `Text.AfterDelimiter(Location, "#(if)", 1)`

OK Cancel

Department	1.2 Salary	APc Location	Start Date	Text After Delimiter
1	82240.77	3 Redmond Way Bellevue, WA USA	3/4/2020	USA
2	116518.12	3 Redmond Way Bellevue, WA USA	5/24/2019	USA
3	61624.77	8 Parliament Lane - Wellington, NZ	8/19/2019	
4	61624.77	3 Redmond Way Bellevue, WA USA	5/21/2020	USA
5	76998.38	3 Redmond Way Bellevue, WA USA	7/27/2019	USA
6	32716.22	1 Infinite Loop, Los Angels, CA, USA	5/17/2020	
7	72502.61	3 Redmond Way Bellevue, WA USA	7/11/2020	USA
8	72502.61	8 Parliament Lane - Wellington, NZ	7/17/2020	
9	28132.33	8 Parliament Lane - Wellington, NZ	7/20/2019	
10	66461.92	3 Redmond Way Bellevue, WA USA	4/1/2020	USA
11	95017.1	3 Redmond Way Bellevue, WA USA	11/15/2019	USA
12	45512.1	1 Infinite Loop, Los Angels, CA, USA	12/1/2019	
13	41155.71	3 Redmond Way Bellevue, WA USA	3/2/2019	USA
14	41155.71	8 Parliament Lane - Wellington, NZ	10/7/2019	
15	32496.88	3 Redmond Way Bellevue, WA USA	11/28/2019	USA
16	48591.73	1 Infinite Loop, Los Angels, CA, USA	1/10/2019	
17	89960.6	3 Redmond Way Bellevue, WA USA	6/19/2019	USA
18	85918.61	8 Parliament Lane - Wellington, NZ	4/27/2019	

type in USA here and you will see all other USA appear (but some are still missing)

Add Column From Examples

Enter sample values to create a new column (Ctrl+Enter to apply).
 Transform: `let splitLocation = Splitter.SplitTextByDelimiter(", ", QuoteStyle.None)([Location]) in Text.End(splitLocation[1]?, 3)`

OK Cancel

Item	1.2 Salary	ABC Location	Start Date	Custom
1	82240.77	3 Redmond Way Bellevue, WA USA	3/4/2020	USA
2	116518.12	3 Redmond Way Bellevue, WA USA	5/24/2019	USA
3	61624.77	8 Parliament Lane - Wellington, NZ	8/19/2019	NZ
4	61624.77	3 Redmond Way Bellevue, WA USA	5/21/2020	USA
5	76998.38	3 Redmond Way Bellevue, WA USA	7/27/2019	USA
6	32716.22	1 Infinite Loop, Los Angeles, CA, USA	5/17/2020	els
7	72502.61	3 Redmond Way Bellevue, WA USA	7/11/2020	USA
8	72502.61	8 Parliament Lane - Wellington, NZ	7/17/2020	NZ
9	28132.33	8 Parliament Lane - Wellington, NZ	7/20/2019	NZ
10	66461.92	3 Redmond Way Bellevue, WA USA	4/1/2020	USA
11	95017.1	3 Redmond Way Bellevue, WA USA	11/15/2019	USA
12	45512.1	1 Infinite Loop, Los Angeles, CA, USA	12/1/2019	els
13	41155.71	3 Redmond Way Bellevue, WA USA	3/2/2019	USA
14	41155.71	8 Parliament Lane - Wellington, NZ	10/7/2019	NZ
15	32496.88	3 Redmond Way Bellevue, WA USA	11/28/2019	USA
16	48591.73	1 Infinite Loop, Los Angeles, CA, USA	1/10/2019	els
17	89960.6	3 Redmond Way Bellevue, WA USA	6/19/2019	USA
18	85918.61	8 Parliament Lane - Wellington, NZ	4/27/2019	NZ

type in NZ here and you will see all other NZ appearing

Add Column From Examples

Enter sample values to create a new column (Ctrl+Enter to apply).
 Transform: `let splitLocation = Splitter.SplitTextByDelimiter(", ", QuoteStyle.None)([Location]) in Text.End(splitLocation[1]?, 3)`

OK Cancel

Item	1.2 Salary	ABC Location	Start Date	Custom
1	82240.77	3 Redmond Way Bellevue, WA USA	3/4/2020	USA
2	116518.12	3 Redmond Way Bellevue, WA USA	5/24/2019	USA
3	61624.77	8 Parliament Lane - Wellington, NZ	8/19/2019	NZ
4	61624.77	3 Redmond Way Bellevue, WA USA	5/21/2020	USA
5	76998.38	3 Redmond Way Bellevue, WA USA	7/27/2019	USA
6	32716.22	1 Infinite Loop, Los Angeles, CA, USA	5/17/2020	els
7	72502.61	3 Redmond Way Bellevue, WA USA	7/11/2020	USA
8	72502.61	8 Parliament Lane - Wellington, NZ	7/17/2020	NZ
9	28132.33	8 Parliament Lane - Wellington, NZ	7/20/2019	NZ
10	66461.92	3 Redmond Way Bellevue, WA USA	4/1/2020	USA
11	95017.1	3 Redmond Way Bellevue, WA USA	11/15/2019	USA
12	45512.1	1 Infinite Loop, Los Angeles, CA, USA	12/1/2019	els
13	41155.71	3 Redmond Way Bellevue, WA USA	3/2/2019	USA
14	41155.71	8 Parliament Lane - Wellington, NZ	10/7/2019	NZ
15	32496.88	3 Redmond Way Bellevue, WA USA	11/28/2019	USA
16	48591.73	1 Infinite Loop, Los Angeles, CA, USA	1/10/2019	els
17	89960.6	3 Redmond Way Bellevue, WA USA	6/19/2019	USA
18	85918.61	8 Parliament Lane - Wellington, NZ	4/27/2019	NZ

notice that "els" appears though they are supposed to be USA

Add Column From Examples

Enter sample values to create a new column (Ctrl+Enter to apply).
 Transform: `let splitLocation = List.Reverse(Splitter.SplitTextByDelimiter(", ", QuoteStyle.None)((Location))) in Text.End(splitLocation{0}?, 3)`

OK Cancel

Department	1.2 Salary	ABC Location	Start Date	Custom
1	82240.77	3 Redmond Way Bellevue, WA USA	3/4/2020	USA
2	116518.12	3 Redmond Way Bellevue, WA USA	5/24/2019	USA
3	61624.77	8 Parliament Lane - Wellington, NZ	8/19/2019	NZ
4	61624.77	3 Redmond Way Bellevue, WA USA	5/21/2020	USA
5	76998.38	3 Redmond Way Bellevue, WA USA	7/27/2019	USA
6	32716.22	1 Infinite Loop, Los Angeles, CA, USA	5/17/2020	USA
7	72502.61	3 Redmond Way Bellevue, WA, USA	7/11/2020	USA
8	72502.61	8 Parliament Lane - Wellington, NZ	7/17/2020	NZ
9	28132.33	8 Parliament Lane - Wellington, NZ	7/20/2019	NZ
10	66461.92	3 Redmond Way Bellevue, WA USA	4/1/2020	USA
11	95017.1	3 Redmond Way Bellevue, WA USA	11/15/2019	USA
12	45512.1	1 Infinite Loop, Los Angeles, CA, USA	12/1/2019	USA
13	41155.71	3 Redmond Way Bellevue, WA USA	3/2/2019	USA
14	41155.71	8 Parliament Lane - Wellington, NZ	10/7/2019	NZ
15	32496.88	3 Redmond Way Bellevue, WA USA	11/28/2019	USA
16	48591.73	1 Infinite Loop, Los Angeles, CA, USA	1/10/2019	USA
17	89960.6	3 Redmond Way Bellevue, WA USA	6/19/2019	USA
18	85918.61	8 Parliament Lane - Wellington, NZ	4/27/2019	NZ

simply type in USA to convert all

Add Column From Examples

Enter sample values to create a new column (Ctrl+Enter to apply).
 Transform: `let splitLocation = List.Reverse(Splitter.SplitTextByDelimiter(", ", QuoteStyle.None)((Location))) in Text.End(splitLocation{0}?, 3)`

OK Cancel

Department	1.2 Salary	ABC Location	Start Date	Custom
83	63022.98	8 Parliament Lane - Wellington, NZ	1/9/2020	NZ
84	40404.47	8 Parliament Lane - Wellington, NZ	2/16/2019	NZ
85	70649.46	1 Infinite Loop, Los Angeles, CA, USA	6/23/2019	USA
86	33755.05	8 Parliament Lane - Wellington, NZ	3/31/2019	NZ
87	108597.72	8 Parliament Lane - Wellington, NZ	9/8/2019	NZ
88	115076.66	8 Parliament Lane - Wellington, NZ	10/8/2019	NZ
89	61333.12	3 Redmond Way Bellevue, WA USA	3/16/2020	USA
90	101187.36	8 Parliament Lane - Wellington, NZ	9/9/2019	NZ
91	105469.74	8 Parliament Lane - Wellington, NZ	8/13/2019	NZ
92	58843.45	8 Parliament Lane - Wellington, NZ	3/9/2019	NZ
93	98632.75	3 Redmond Way Bellevue, WA USA	9/8/2019	USA
94	32269.91	8 Parliament Lane - Wellington, NZ	4/6/2020	NZ
95	104210.82	8 Parliament Lane - Wellington, NZ	4/16/2019	NZ
96	71214.4	1 Infinite Loop, Los Angeles, CA, USA	1/30/2019	USA
97	87904.9	1 Infinite Loop, Los Angeles, CA, USA	12/22/2019	USA
98	88034.67	1 Infinite Loop, Los Angeles, CA, USA	3/13/2019	USA
99	88034.67	8 Parliament Lane - Wellington, NZ	11/2/2019	NZ
100	106775.14	1 Infinite Loop, Los Angeles, CA, USA	7/2/2019	USA

check thru the list to see that all is OK then hit OK

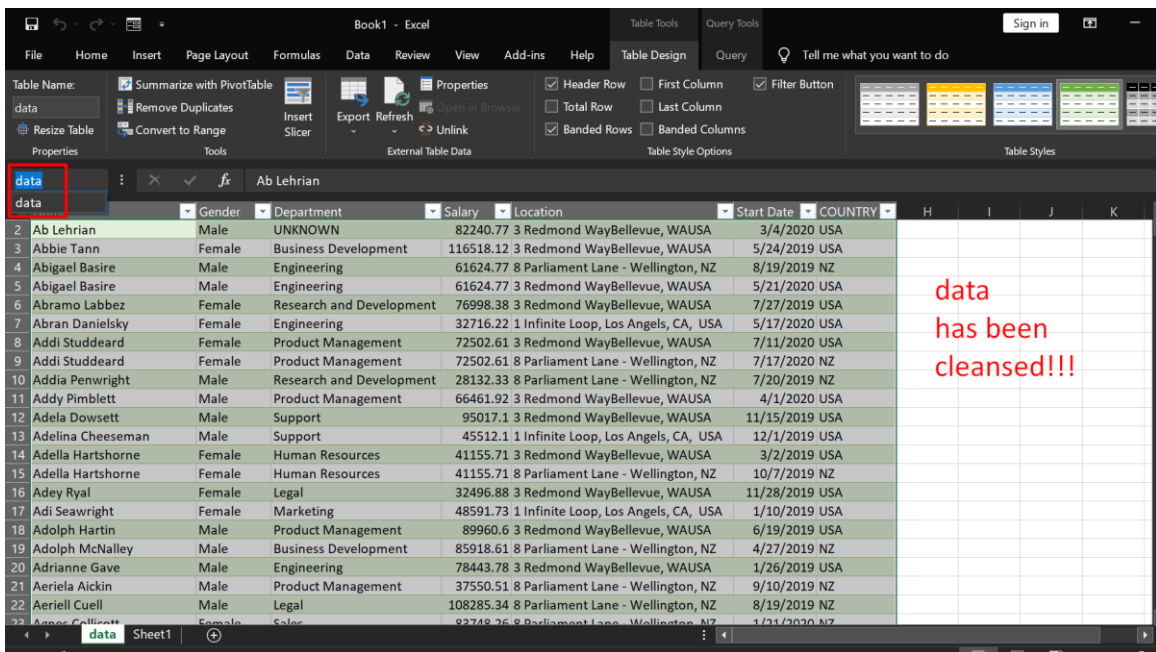
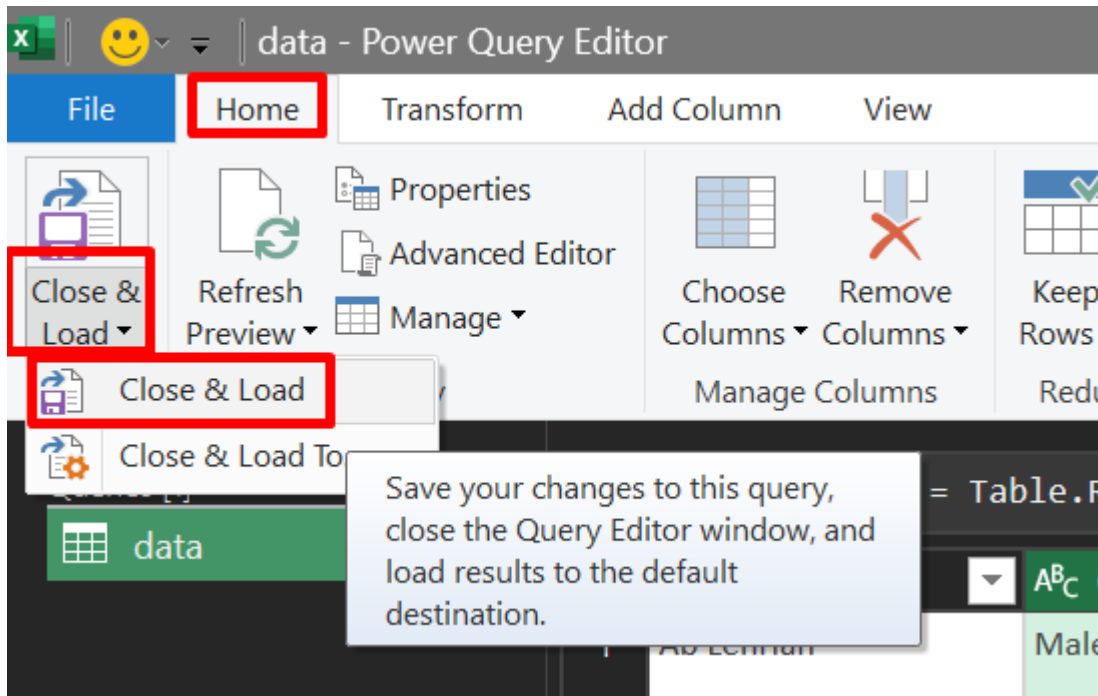
FROM Text FROM Number FROM Date & Time

fx = Table.AddColumn("#Filtered Rows", "Custom", each let splitLocation = List.Reverse

	Gender	Department	1.2 Salary	Location	Start Date	COUNTRY
1		UNKNOWN	82240.77	3 Redmond Way Bellevue, WA USA	3/4/2020	USA
2	male	Business Development	116518.12	3 Redmond Way Bellevue, WA USA	5/24/2019	USA
3		Engineering	61624.77	8 Parliament Lane - Wellington, NZ	8/19/2019	NZ
4		Engineering	61624.77	3 Redmond Way Bellevue, WA USA	5/21/2020	USA
5	male	Research and Development	76998.38	3 Redmond Way Bellevue, WA USA	7/27/2019	USA
6	male	Engineering	32716.22	1 Infinite Loop, Los Angeles, CA, USA	5/17/2020	USA
7	male	Product Management	72502.61	3 Redmond Way Bellevue, WA USA	7/11/2020	USA
8	male	Product Management	72502.61	8 Parliament Lane - Wellington, NZ	7/17/2020	NZ
9		Research and Development	28132.33	8 Parliament Lane - Wellington, NZ	7/20/2019	NZ
10		Product Management	66461.92	3 Redmond Way Bellevue, WA	4/1/2020	USA

RENAME

H. CLOSE AND LOAD



I. REFRESH DATA AFTER UPDATES...

	A	B	C	D	E	F	G	H
1039	Ardyce Eacott	Female	Human Resources	\$92,472.84	1 Infinite Loop, Los Angeles, CA, USA		8/3/2020	
1040	Philomena Lumsden		NULL	\$90,396.10	1 Infinite Loop, Los Angeles, CA, USA		8/3/2020	
1041	Lane Monteaux	Female	Engineering	\$109,981.23	1 Infinite Loop, Los Angeles, CA, USA		8/4/2020	
1042	Axel Grigaut	Male	Sales	\$110,777.43	8 Parliament Lane - Wellington, NZ		8/5/2020	
1043	Layton Kierans	Male	Human Resources	\$113,790.72	1 Infinite Loop, Los Angeles, CA, USA		8/5/2020	
1044	Amery Ofer	Female	Legal	\$111,049.84	8 Parliament Lane - Wellington, NZ		8/6/2020	
1045	Caro Chappel	Female	Sales	\$104,409.76	1 Infinite Loop, Los Angeles, CA, USA		8/6/2020	
1046	Inge Creer	Female	Services	\$69,057.32	3 Redmond Way Bellevue, WA, USA		8/6/2020	
1047	Oby Sorrel	Female	Support	\$58,935.92	1 Infinite Loop, Los Angeles, CA, USA		8/7/2020	
1048	Elliot Tuplin	Female	Sales	\$44,534.79	1 Infinite Loop, Los Angeles, CA, USA		8/8/2020	
1049	Enoch Dowrey	Male	Accounting	\$91,645.04	USA		8/10/2020	
1050								
1051	ALVIN ANG	MALE	TRAINER	\$3	SINGAPORE		4/10/1981	
1052								
1053								
1054								
1055								
1056								

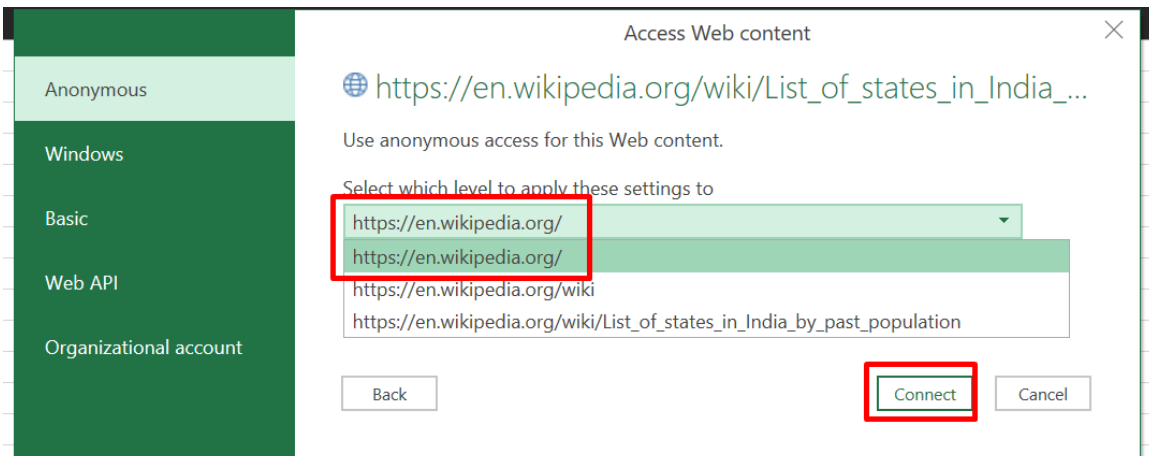
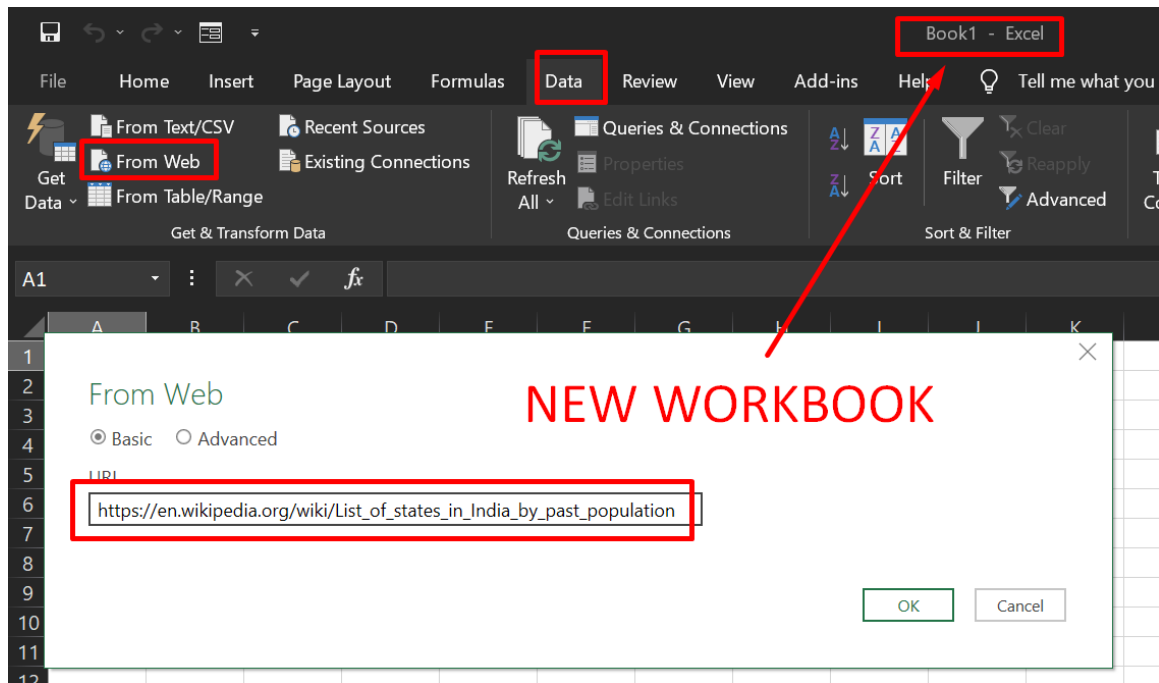
presume now we open back the original .xls Data workbook and key this in CTRL + S to save it.... it changes the original Database!

	A	B	C	D	E	F	G	H
992	Sarajane Peachey	Female	Marketing	107576.73	8 Parliament Lane - Wellington, NZ		8/2/2020	NZ
993	Ardyce Eacott	Female	Human Resources	92472.84	1 Infinite Loop, Los Angeles, CA, USA		8/3/2020	USA
994	Philomena Lumsden	UNCERTAIN	UNKNOWN	90396.1	1 Infinite Loop, Los Angeles, CA, USA		8/3/2020	USA
995	Lane Monteaux	Female	Engineering	109981.23	1 Infinite Loop, Los Angeles, CA, USA		8/4/2020	USA
996	Axel Grigaut	Male	Sales	110777.43	8 Parliament Lane - Wellington, NZ		8/5/2020	NZ
997	Layton Kierans	Male	Human Resources	113790.72	1 Infinite Loop, Los Angeles, CA, USA		8/5/2020	USA
998	Amery Ofer	Female	Legal	111049.84	8 Parliament Lane - Wellington, NZ		8/6/2020	NZ
999	Caro Chappel	Female	Sales	104409.76	1 Infinite Loop, Los Angeles, CA, USA		8/6/2020	USA
1000	Inge Creer	Female	Services	69057.32	3 Redmond WayBellevue, WAUSA		8/6/2020	USA
1001	Oby Sorrel	Female	Support	58935.92	1 Infinite Loop, Los Angeles, CA, USA		8/7/2020	USA
1002	Elliot Tuplin	Female	Sales	44534.79	1 Infinite Loop, Los Angeles, CA, USA		8/8/2020	USA
1003	Enoch Dowrey	Male	Accounting	91645.04	3 Redmond WayBellevue, WAUSA		8/10/2020	USA
1004	ALVIN ANG	MALE	TRAINER	3	SINGAPORE		4/10/1981	ORE
1005								
1006								
1007								
1008								
1009								
1010								
1011								
1012								
1013								

go back to the Book1 (previous workbook) and scroll down After Refreshing, the new row has been added!

II. EXAMPLE 2: UNPIVOTING WEB SCRAPPED DATA TABLE

https://en.wikipedia.org/wiki/List_of_states_in_India_by_past_population



Navigator

Search:

Select multiple items

Display Options ▾

- https://en.wikipedia.org/wiki/List_of_states_in_I...
- By past population (1947 to 2011)[edit]**
- Document
- See also[edit]

Table View | Web View

By past population (1947 to 2011)[edit]

Rank	State or union territory	Population (1951 Census)[11]	Populatio
Rank	State or union territory	Population (1951 Census)	Populatio
1	Uttar Pradesh	60,274,800	70,144
2	Maharashtra	32,002,500	39,554
3	Bihar	29,085,900	34,841
4	West Bengal	26,300,670	34,926
5	Madhya Pradesh	18,615,700	23,216
6	Tamil Nadu	30,119,680	33,687
7	Rajasthan	15,971,130	20,156
8	Karnataka	19,402,500	23,587
9	Gujarat	16,263,700	20,633
10	Andhra Pradesh	31,115,000	35,983
11	Odisha	14,646,100	17,545
12	Telangana	N/A	N/A
13	Kerala	13,549,000	16,904
14	Jharkhand	9,697,300	11,606
15	Assam	8,029,100	10,837
16	Punjab	9,160,990	11,135
17	Haryana	5,674,400	7,591
18	Chhattisgarh	7,457,700	9,154
19	Jammu and Kashmir	3,254,650	3,561

Load ▾ **Transform Data** Cancel

on (1947 to 2011)[edit] - Power Query Editor

Add Column View

Remove Rows

Remove Top Rows

Remove the top N rows from this table.

Rank	State or union territory	Population (1951 Census)	Population (1961 Census)	Population (1971 Census)
1	Uttar Pradesh	30,002,500	70,144,160	83,849,775
2	Maharashtra	32,002,500	39,554,900	50,412,240
3	Bihar	29,085,900	34,841,000	42,126,800
4	West Bengal	26,300,670	34,926,000	44,312,017
5	Madhya Pradesh	18,615,700	23,218,950	30,017,180
6	Tamil Nadu	30,119,680	33,687,100	41,199,170
7	Rajasthan	15,971,130	20,156,540	25,765,810
8	Karnataka	19,402,500	27,587,910	29,299,015
9	Gujarat	16,263,700	20,633,305	26,697,488
10	Andhra Pradesh	31,115,000	35,983,480	43,502,710
11	Odisha	14,646,100	17,549,500	21,944,625
12	Telangana	N/A	N/A	N/A
13	Kerala	13,549,000	16,904,560	21,347,300
14	Jharkhand	9,697,300	11,606,504	14,227,493

EXTRA HEADER ROW TO REMOVE

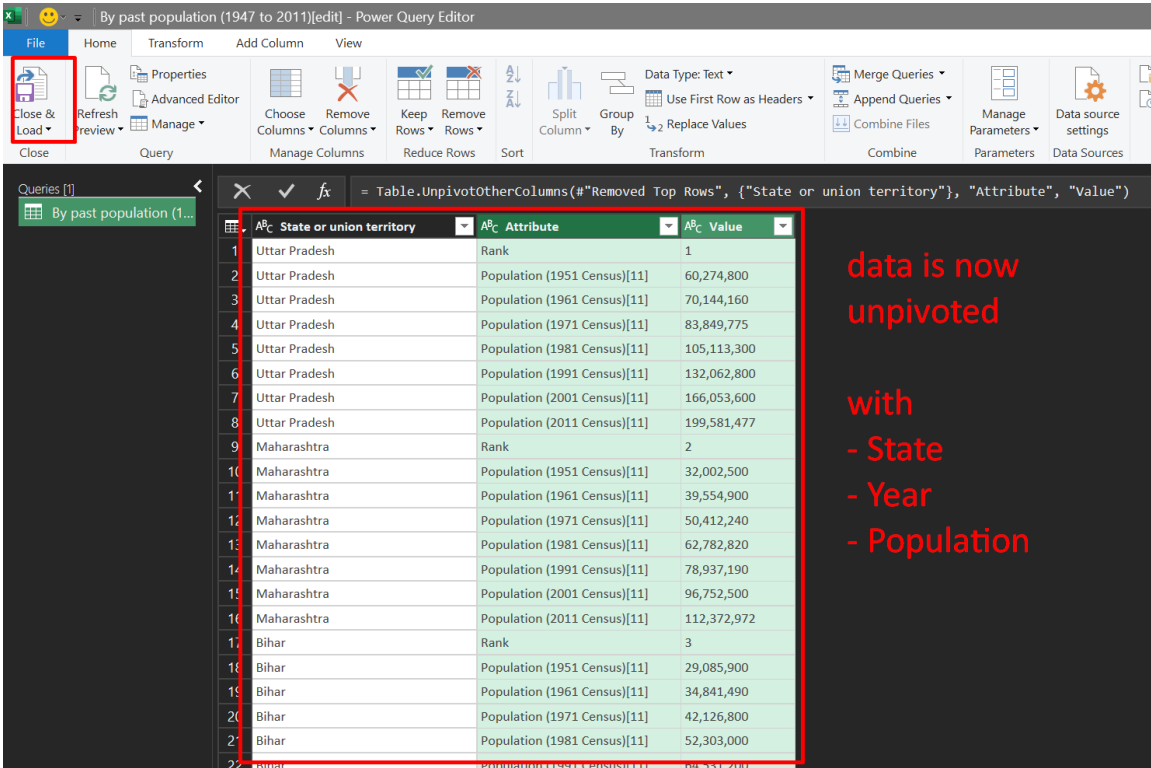
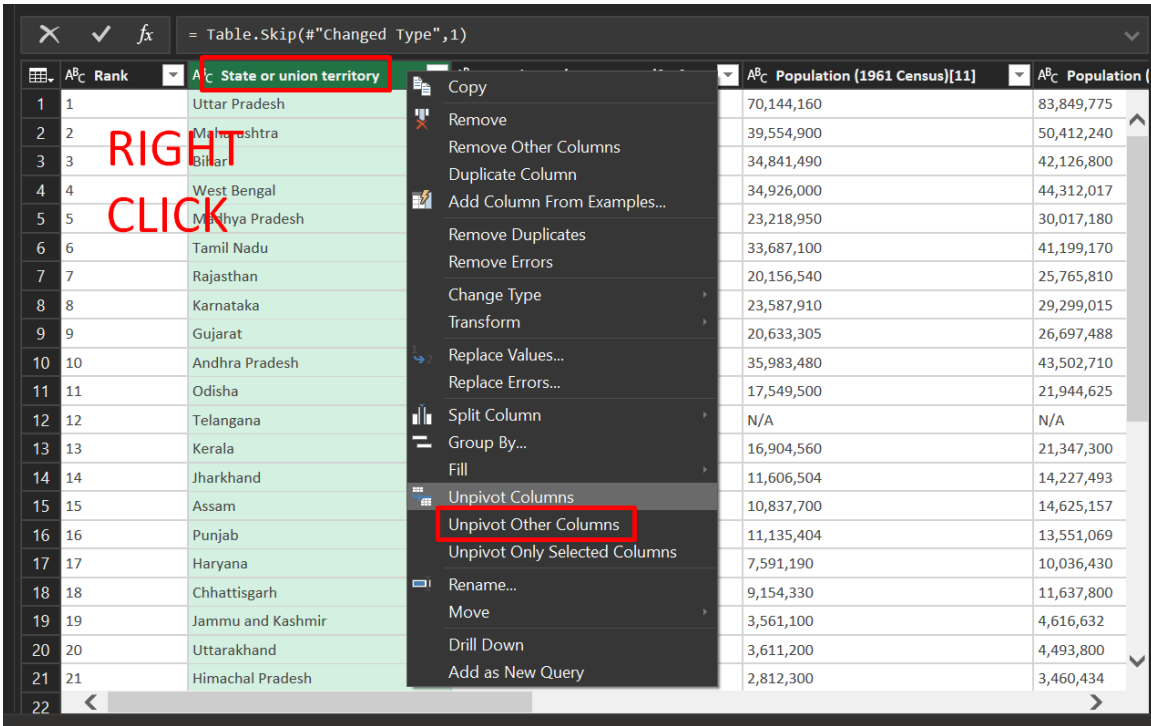
Remove Top Rows

Specify how many rows to remove from the top.

Number of rows

1

OK Cancel



III. EXAMPLE 3: COMBING A BUNCH OF DATA FILES INTO ONE SHEET (SIMILAR TO SQL UNION)

<https://www.alvinang.sg/s/project-alpha.xlsx>

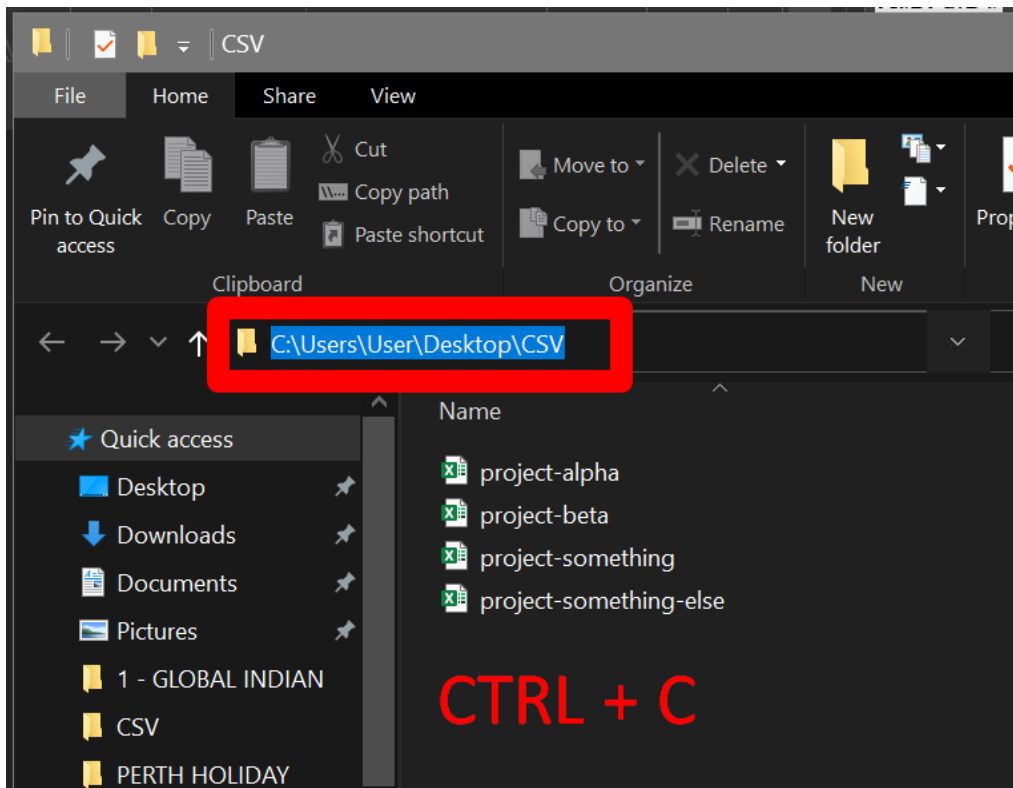
<https://www.alvinang.sg/s/project-beta.xlsx>

<https://www.alvinang.sg/s/project-something.xlsx>

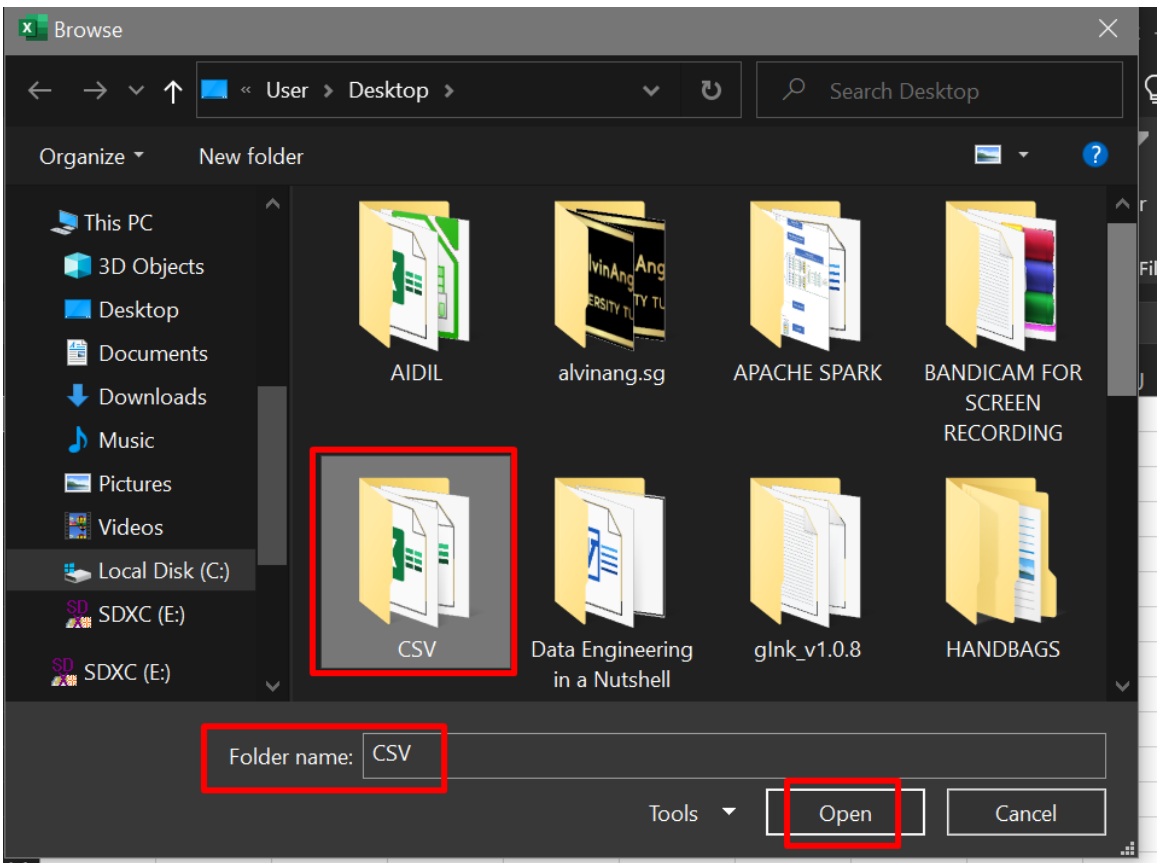
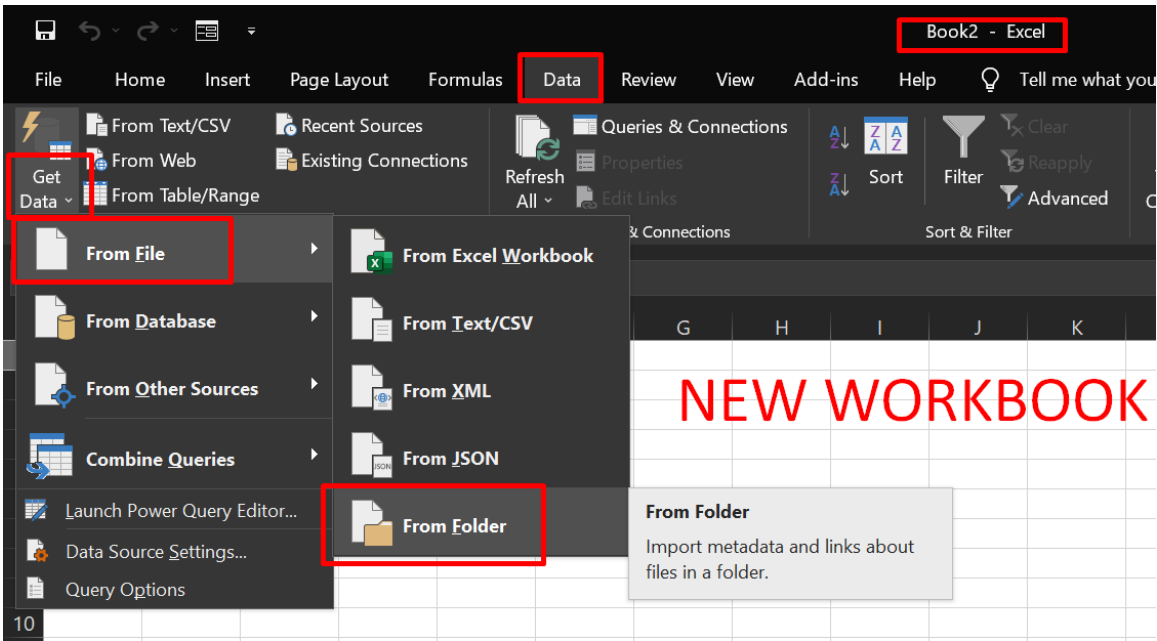
<https://www.alvinang.sg/s/project-something-else.xlsx>

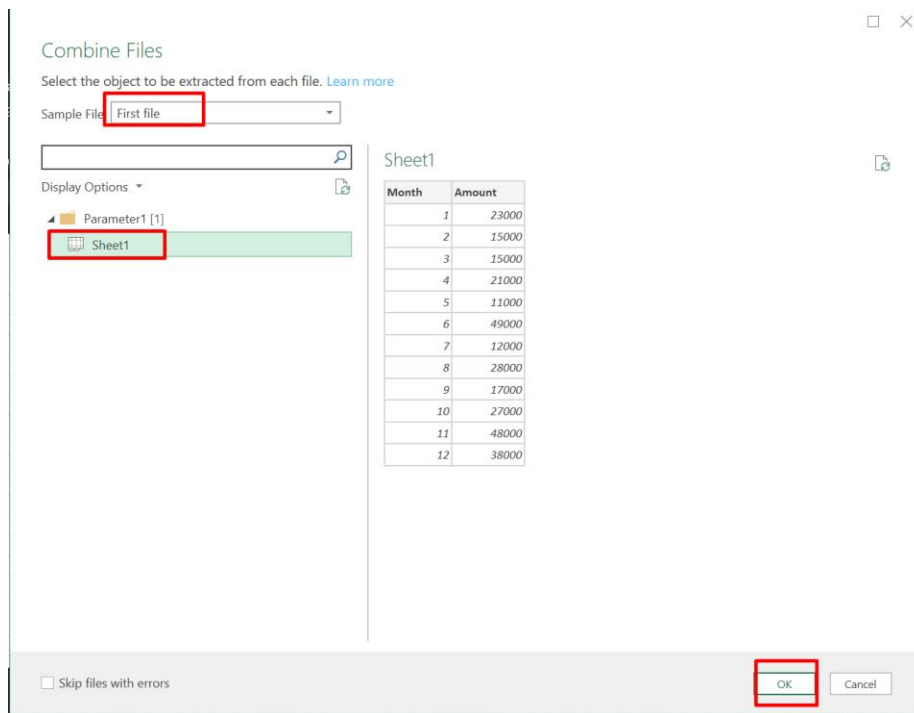
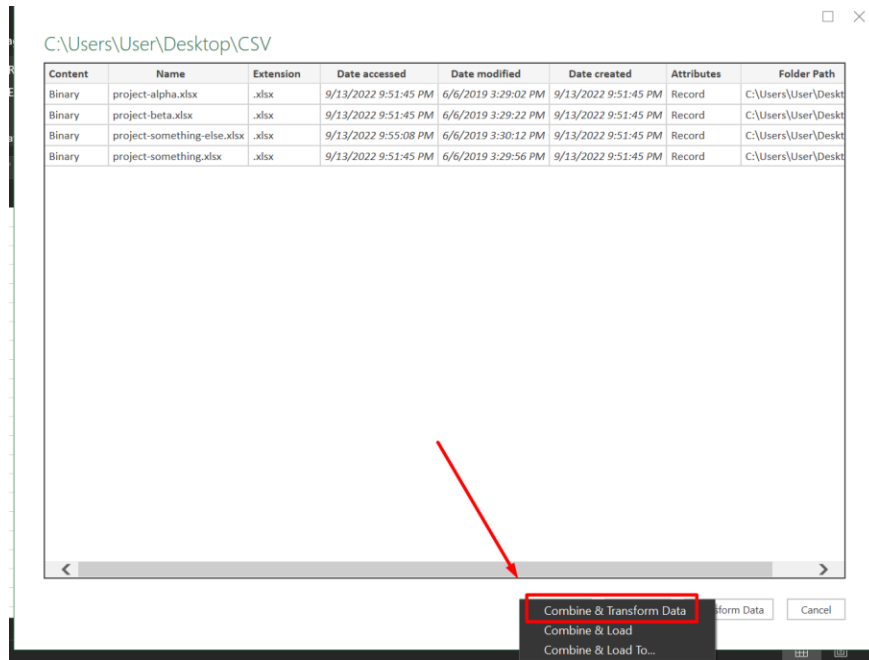
Download all the files ABOVE and place them all in ONE FOLDER

A. IMPORTING ALL FILES



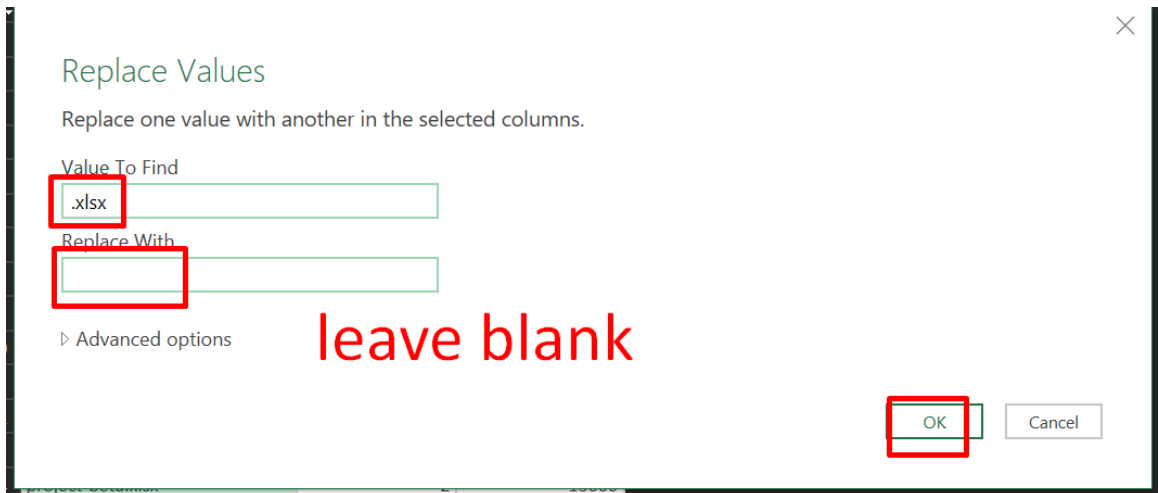
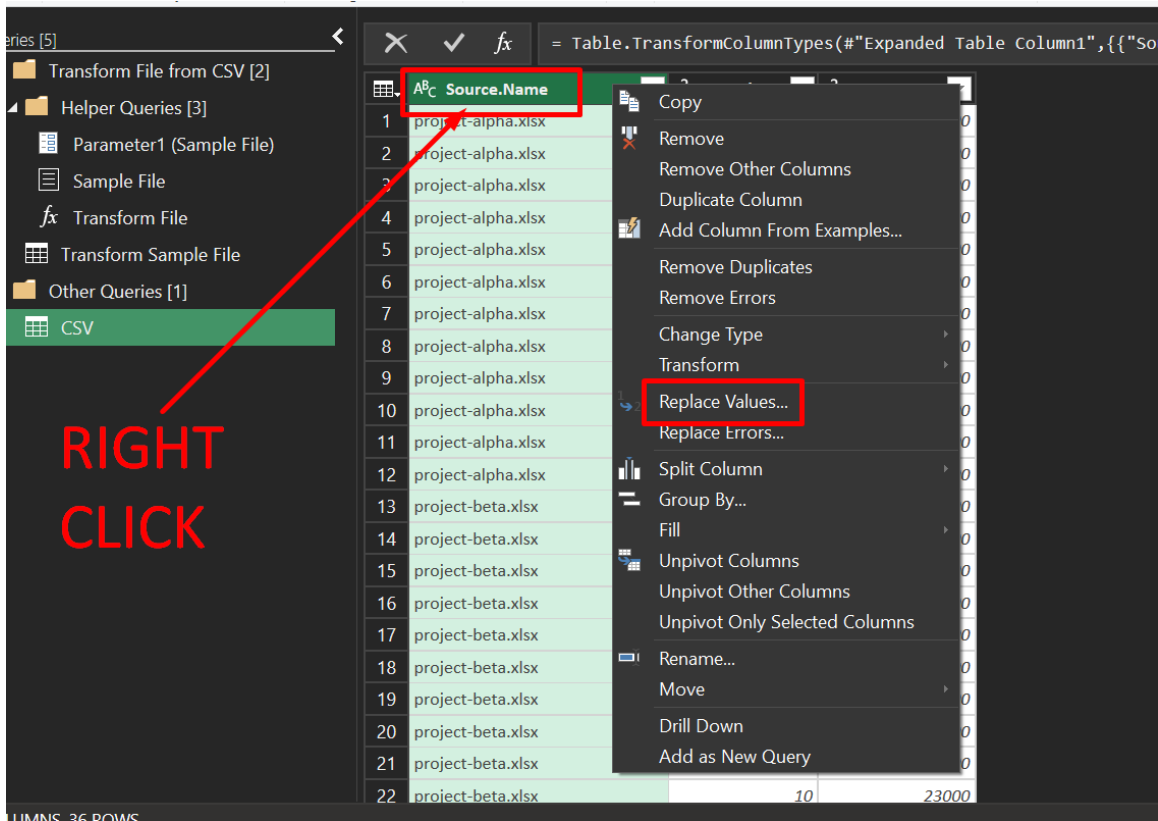
C:\Users\User\Desktop\CSV



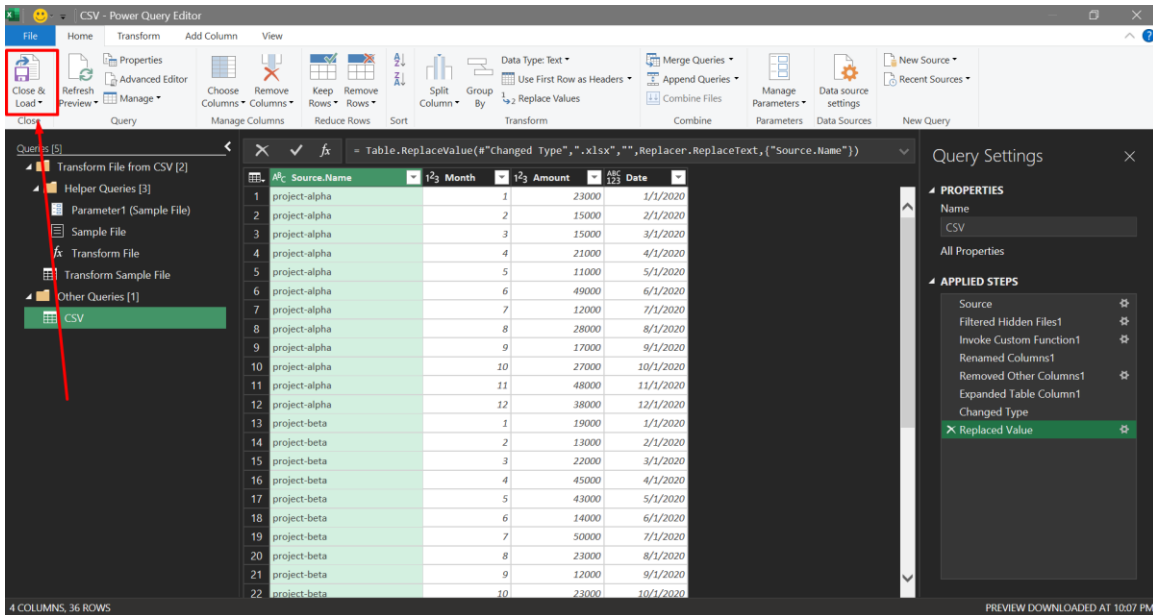
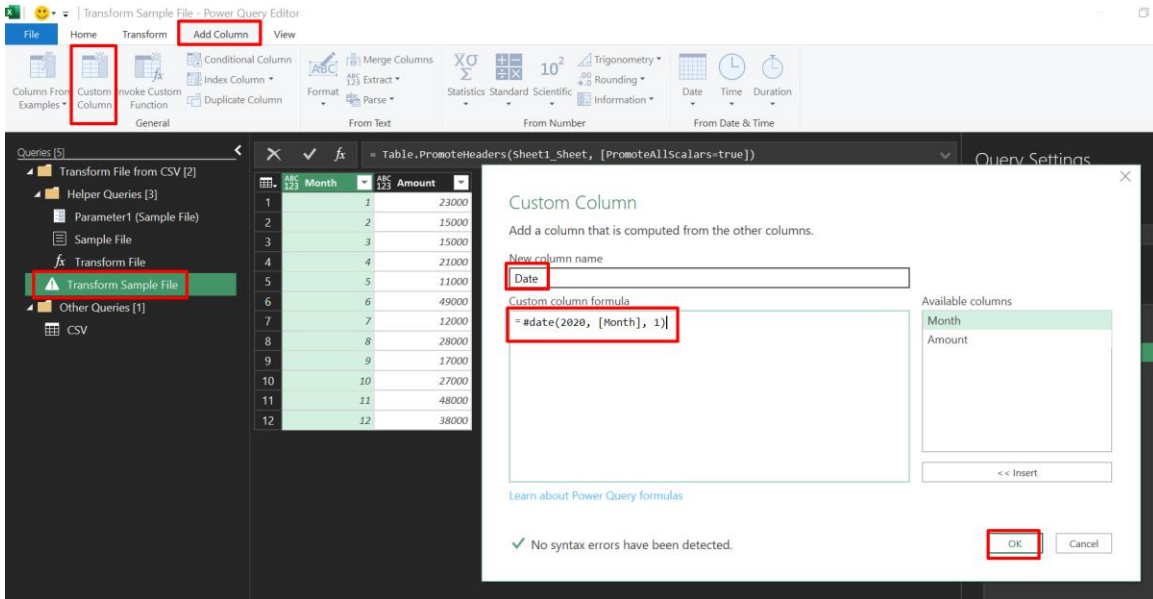


Above just shows a Sample First File....

B. REMOVE THE .XLSX



C. ADD A DATE COLUMN



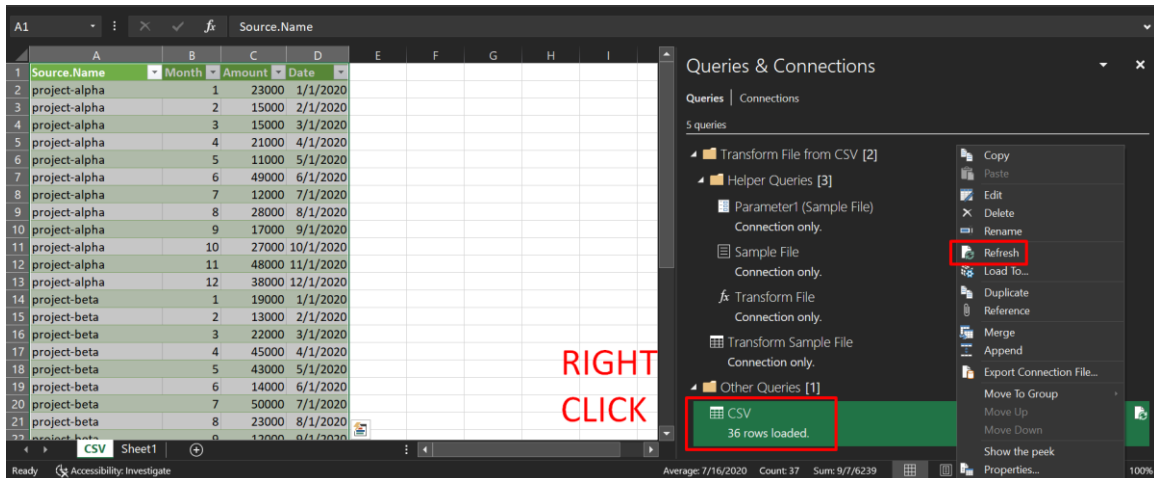
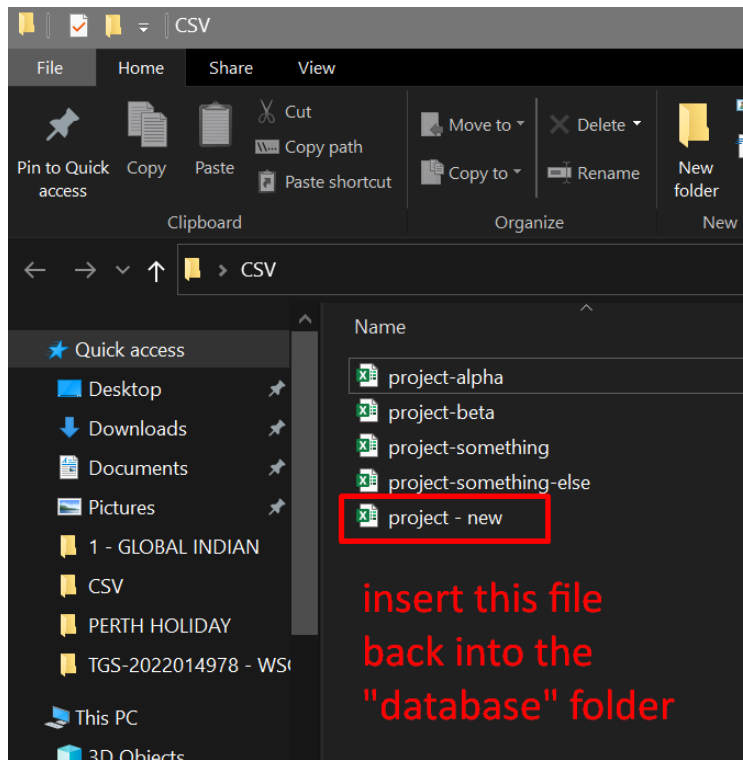
The screenshot shows the Microsoft Excel interface with the 'Home' tab selected. A table is displayed with the following data:

	A	B	C	D	E	F	G
1	Source.Name	Month	Amount	Date			
2	project-alpha	1	23000	43831			
3	project-alpha	2	15000	43862			
4	project-alpha	3	15000	43891			
5	project-alpha	4	21000	43922			
6	project-alpha	5	11000	43952			
7	project-alpha	6	49000	43983			
8	project-alpha	7	12000	44013			
9	project-alpha	8	28000	44044			
10	project-alpha	9	17000	44075			
11	project-alpha	10	27000	44105			
12	project-alpha	11	48000	44136			
13	project-alpha	12	38000	44166			
14	project-beta	1	19000	43831			
15	project-beta	2	13000	43862			
16	project-beta	3	22000	43891			
17	project-beta	4	45000	43922			
18	project-beta	5	43000	43952			
19	project-beta	6	14000	43983			
20	project-beta	7	50000	44013			
21	project-beta	8	23000	44044			
22	project-beta	9	12000	44075			

The 'Date' column (D) is highlighted with a red box. The 'Number Format' dropdown menu is open, showing various date formats. The 'Short Date' option is highlighted with a red box.

D. WHAT IF A NEW FILE WAS ADDED? REFRESH!

We now have a new file we want to add in : <https://www.alvinang.sg/s/project-new.xlsx>

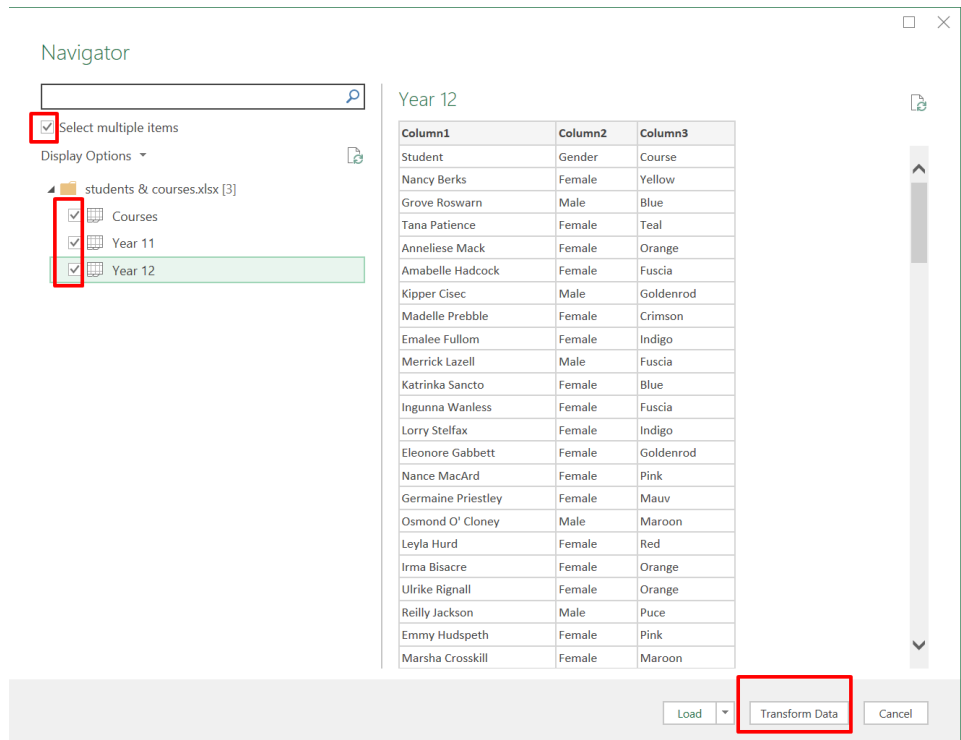
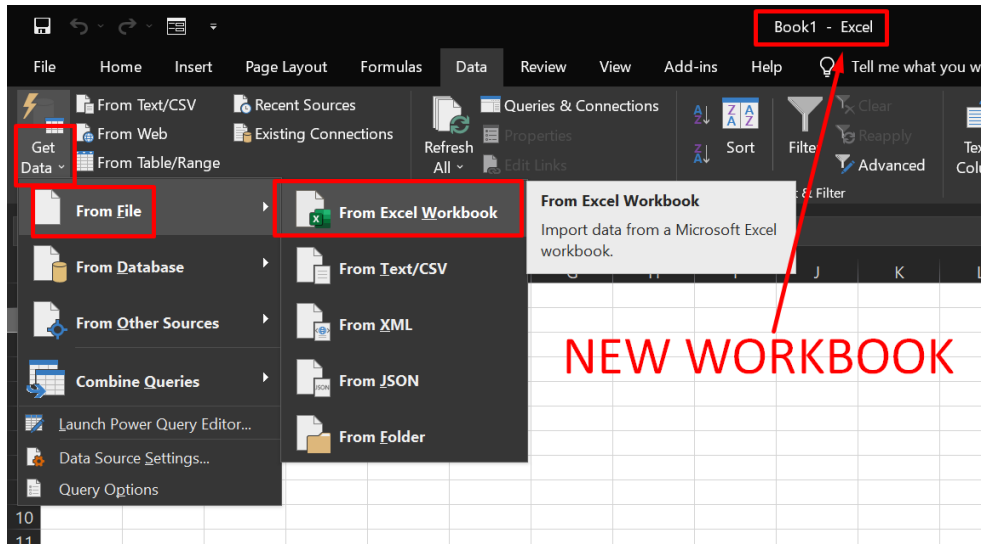


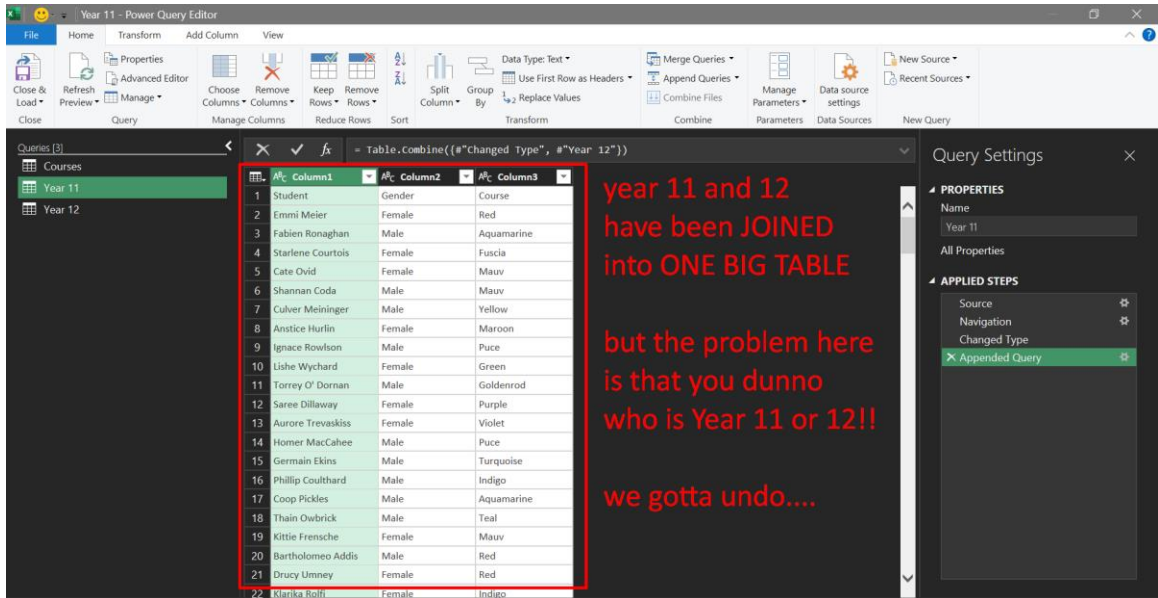
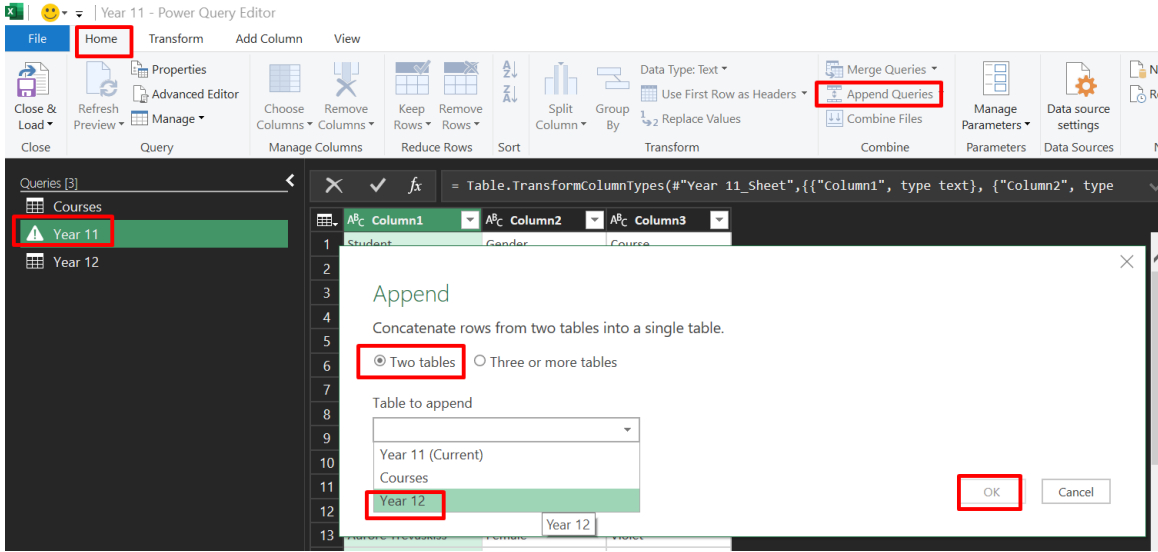
the new data has been automatically loaded in with New Date column!!!

	Source.Name	Month	Amount	Date
1	project - new	7	19000	7/1/2020
2	project - new	8	17000	8/1/2020
3	project - new	9	25000	9/1/2020
4	project - new	10	25000	10/1/2020
5	project - new	11	44000	11/1/2020
6	project - new	12	47000	12/1/2020
7	project-alpha	1	23000	1/1/2020
8	project-alpha	2	15000	2/1/2020
9	project-alpha	3	15000	3/1/2020
10	project-alpha	4	21000	4/1/2020
11	project-alpha	5	11000	5/1/2020
12	project-alpha	6	49000	6/1/2020
13	project-alpha	7	12000	7/1/2020
14	project-alpha	8	28000	8/1/2020
15	project-alpha	9	17000	9/1/2020
16	project-alpha	10	27000	10/1/2020
17	project-alpha	11	48000	11/1/2020
18	project-alpha	12	38000	12/1/2020
19	project-beta	1	19000	1/1/2020
20	project-beta	2	13000	2/1/2020
21	project-beta	3	22000	3/1/2020

IV. EXAMPLE 4: JOINING AND APPENDING TABLES

<https://www.alvinang.sg/s/students-courses.xlsx>





Year 11 - Power Query Editor

Table.Combine({"Changed Type", #Year 12})

APC Column1	APC Column2	APC Column3
1	Student	Gender
2	Emmi Meier	Female
3	Fabien Ronaghan	Male
4	Starlene Courtois	Female
5	Cate Ovid	Female
6	Shannan Coda	Male
7	Culver Meininger	Male
8	Anstice Hurlin	Female
9	Ignace Rowlson	Male
10	Lishe Wychard	Female
11	Torrey O' Dorman	Male
12	Saree Dillaway	Female
13	Aurora Trevasliss	Female
14	Homer MacCahee	Male
15	Germain Ekins	Male
16	Phillip Coulthard	Male
17	Cooa Pickles	Male
		Course
		Red
		Aquamarine
		Fuscia
		Mauv
		Mauv
		Yellow
		Maroon
		Puce
		Green
		Goldenrod
		Purple
		Violet
		Puce
		Turquoise
		Indigo
		Aouamarine

delete and remove these 2...

Query Settings

PROPERTIES

Name: Year 11

APPLIED STEPS

- Source
- Navigation
- Changed Type
- Appended Query

Year 12 - Power Query Editor

Table.TransformColumnTypes(#Year 12_Sheet,{{"Column1", type text}, {"Column2", type

APC Column1	APC Column2	APC Column3
1	Student	Gender
2	Nancy Berks	Female
3	Grove Roswam	Male
4	Tana Patience	Female
5	Anneliese Mack	Female
6	Amabelle Hadcock	Female
7	Kipper Cisec	Male
8	Madelle Prebble	Female
9	Emalee Fullom	Female
10	Merrick Lazell	Male
11	Katrinka Sancto	Female
12	Hgunna Wanless	Female
13	Lorry Steffax	Female
		Course
		Yellow
		Blue
		Teal
		Orange
		Fuscia
		Goldenrod
		Crimson
		Indigo
		Fuscia
		Blue
		Fuscia
		Indigo

delete this away

Query Settings

PROPERTIES

Name: Year 12

APPLIED STEPS

- Source
- Navigation
- Changed Type

A. MAKE FIRST ROW AS HEADERS FOR BOTH YEAR 11 AND 12

Year 11 - Power Query Editor

File Home Transform Add Column View

Close & Load Refresh Properties Advanced Editor Manage Choose Columns Remove Columns Keep Rows Remove Rows Split Column Group By Data Type: Text Use First Row as Headers Merge Queries Append Queries Combine Files Combine

Queries [3] Courses Year 11 Year 12

Table.TransformColumnTypes(#"Promoted Headers",{{"Student"

	Student	Gender	Course
1	Emmi Meier	Female	Red
2	Fabien Ronaghan	Male	Aquamarine
3	Starlene Courtois	Female	Fuscia
4	Cate Ovid	Female	Mauv
5	Shannan Coda	Male	Mauv
6	Culver Meininger	Male	Yellow
7	Anstice Hurlin	Female	Maroon
8	Ignace Rowilson	Male	Puce
9	Lishe Wychard	Female	Green
10	Torrey O' Dornan	Male	Goldenrod

Year 12 - Power Query Editor

File Home Transform Add Column View

Close & Load Refresh Properties Advanced Editor Manage Choose Columns Remove Columns Keep Rows Remove Rows Split Column Group By Data Type: Text Use First Row as Headers Merge Queries Append Queries Combine Files Combine Parameters Data source settings New Source Recent Sources

Queries [3] Courses Year 11 Year 12

Table.TransformColumnTypes(#"Promoted Headers",({"Student", type text}, {"Gender", type

	Student	Gender	Course
1	Nancy Berks	Female	Yellow
2	Grove Roswam	Male	Blue
3	Tana Patience	Female	Teal
4	Anneliese Mack	Female	Orange
5	Amabelle Hadcock	Female	Fuscia
6	Kipper Cisec	Male	Goldenrod
7	Madelle Prebble	Female	Crimson
8	Emalee Fullom	Female	Indigo
9	Merrick Lazell	Male	Fuscia
10	Katrinka Sancto	Female	Blue
11	Ngunna Wanless	Female	Fuscia
12	Lorry Stellax	Female	Indigo
13	Fleonore Gabbett	Female	Goldenrod

Query Settings

PROPERTIES Name Year 12

APPLIED STEPS Source Navigation Promoted Headers Changed Type

B. ADD CUSTOM COLUMN OF YEAR

The screenshot shows the Power Query Editor interface for 'Year 11'. The 'Add Column' tab is selected in the ribbon. The 'Custom Column' dialog box is open, showing the following details:

- New column name:** Year
- Custom column formula:** = "Year 11"
- Available columns:** Student, Gender, Course
- Status:** No syntax errors have been detected.
- Buttons:** OK, Cancel

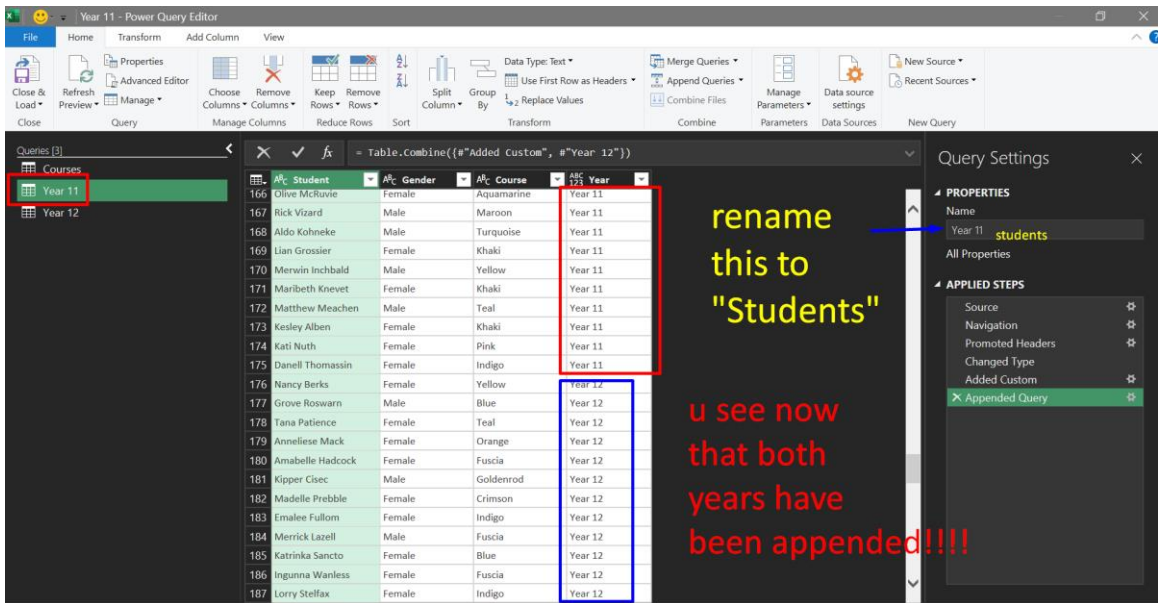
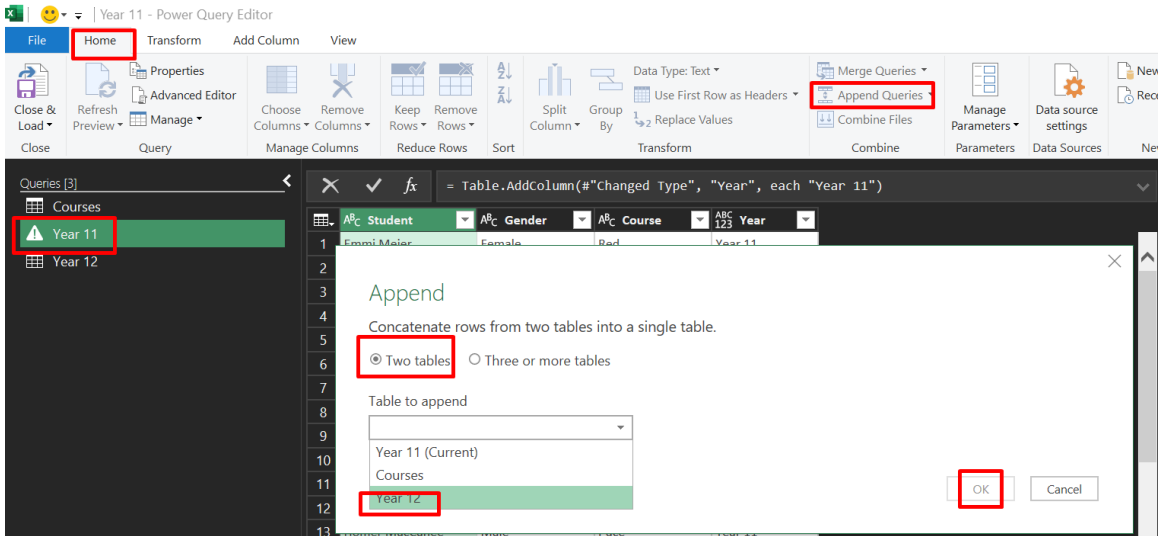
The background shows a table with columns for Student, Gender, and Course. The 'Year 11' column is highlighted in the 'Queries' pane.

The screenshot shows the Power Query Editor interface for 'Year 12'. The 'Add Column' tab is selected in the ribbon. The 'Custom Column' dialog box is open, showing the following details:

- New column name:** Year
- Custom column formula:** = "Year 12"
- Available columns:** Student, Gender, Course
- Status:** No syntax errors have been detected.
- Buttons:** OK, Cancel

The background shows a table with columns for Student, Gender, and Course. The 'Year 12' column is highlighted in the 'Queries' pane.

C. APPEND QUERIES – UNION BOTH TABLES



The screenshot displays the Microsoft Power Query Editor interface. The main window shows a table with the following data:

Student	Gender	Course	Year
Eward Major	Female	Red	Year 11
Fabien Ronaghan	Male	Aquamarine	Year 11
Starlene Courtois	Female	Fuscia	Year 11
Cate Ovid	Female	Mauv	Year 11
Shannan Coda	Male	Mauv	Year 11
Culver Meininger	Male	Yellow	Year 11
Anstice Hurlin	Female	Maroon	Year 11
Ignace Rowlson	Male	Puce	Year 11
Lishe Wychard	Female	Green	Year 11
Torrey O' Dorman	Male	Goldenrod	Year 11
Saree Dillaway	Female	Purple	Year 11
Aurore Trevaskiss	Female	Violet	Year 11
Homer MacCahee	Male	Puce	Year 11
Germain Ekins	Male	Turquoise	Year 11
Phillip Coulthard	Male	Indigo	Year 11
Coop Pickles	Male	Aquamarine	Year 11
Thain Owbrick	Male	Teal	Year 11

The 'Query Settings' pane on the right shows the 'Name' property set to 'Students' and the 'Applied Steps' list containing 'Source', 'Navigation', 'Promoted Headers', 'Changed Type', 'Added Custom', and 'Appended Query'.

D. MERGING / SQL LEFT JOIN STUDENTS TABLE TO COURSES

select both these 2 columns

similar to SQL Left Join

4 COLUMNS, 175 ROWS

PREVIEW DOWNLOADED AT 12:14 AM

u get this Courses column which is actually a table compressed of more columns...

APc Student	APc Gender	APc Course	APc Year	Courses
1 Emmi Meier	Female	Red	Year 11	Table
2 Fabien Ronaghan	Male	Aquamarine	Year 11	Table
3 Starlene Courtois	Female	Fuscia	Year 11	Table
4 Cate Ovid	Female	Mauv	Year 11	Table
5 Shannan Coda	Male	Mauv	Year 11	Table
6 Culver Meininger	Male	Yellow	Year 11	Table
7 Anstice Hurlin	Female	Maroon	Year 11	Table
8 Ignace Rowlson	Male	Puce	Year 11	Table
9 Lishe Wychard	Female	Green	Year 11	Table
10 Torrey O' Dornan	Male	Goldenrod	Year 11	Table
11 Saree Dillaway	Female	Purple	Year 11	Table
12 Aurore Trevasikiss	Female	Violet	Year 11	Table
13 Homer MacCahee	Male	Puce	Year 11	Table
14 Germain Ekins	Male	Turquoise	Year 11	Table
15 Phillip Coulthard	Male	Indigo	Year 11	Table
16 Coop Pickles	Male	Aquamarine	Year 11	Table
17 Thain Owbrick	Male	Teal	Year 11	Table
18 Kittie Frensche	Female	Mauv	Year 11	Table
19 Bartholomeo Addis	Male	Red	Year 11	Table
20 Drucy Umney	Female	Red	Year 11	Table
21 Klarika Rolfi	Female	Indigo	Year 11	Table
22 Deane Dodimead	Female	Khaki	Year 11	Table

fx = Table.NestedJoin("#Added Custom", {"Course"}, Courses, {"Course"}, "Courses",

Student	Gender	Course	Year	Courses
Emmi Meier	Female			
Fabien Ronaghan	Male			
Starlene Courtois	Female			
Cate Ovid	Female			
Shannan Coda	Male			
Culver Meininger	Male			
Anstice Hurlin	Female			
Ignace Rowlson	Male			
Lishe Wychard	Female			
Torrey O' Dornan	Male			
Saree Dillaway	Female			
Aurore Trevasikiss	Female			
Homer MacCahee	Male			
Germain Ekins	Male	Turquoise	Year 11	Table
Phillip Coulthard	Male	Indigo	Year 11	Table
Coop Pickles	Male	Aquamarine	Year 11	Table
Thain Owbrick	Male	Teal	Year 11	Table
Kittie Frensche	Female	Mauv	Year 11	Table

Search Columns to Expand

Expand Aggregate

(Select All Columns)

Course

Teacher

Lesson type

Credits

Assessment type

Use original column name as prefix

OK Cancel

we are going to uncompress it

fx = Table.ExpandTableColumn("#Merged Queries", "Courses", {"Teacher", "Lesson type", "Credits", "Assessment type"},

Student	Gender	Course	Year	Teacher	Lesson type	Credits	Assessment type
Emmi Meier	Female	Red	Year 11	Terencio	Internship	3	Project work
Bartholomeo Addis	Male	Red	Year 11	Terencio	Internship	3	Project work
Drucy Umney	Female	Red	Year 11	Terencio	Internship	3	Project work
Fabien Ronaghan	Male	Aquamarine	Year 11	Mirelle	Practical	1	Quiz
Coop Pickles	Male	Aquamarine	Year 11	Mirelle	Practical	1	Quiz
Starlene Courtois	Female	Fuscia	Year 11	Channa	Theory	1	Written
Cate Ovid	Female	Mauv	Year 11	Erl	Theory	4	Oral
Shannan Coda	Male	Mauv	Year 11	Erl	Theory	4	Oral
Kittie Frensche	Female	Mauv	Year 11	Erl	Theory	4	Oral
Torrey O' Dornan	Male	Goldenrod	Year 11	Daren	Internship	1	Project work
Culver Meininger	Male	Yellow	Year 11	Erl	Theory	2	Continuous
Lishe Wychard	Female	Green	Year 11	Hyacinthe	Theory	2	Written
Anstice Hurlin	Female	Maroon	Year 11	Lory	Theory	4	Written
Phillip Coulthard	Male	Indigo	Year 11	Clarita	Internship	2	Written
Ignace Rowlson	Male	Puce	Year 11	Eleanore	Internship	4	Oral
Homer MacCahee	Male	Puce	Year 11	Eleanore	Internship	4	Oral
Saree Dillaway	Female	Purple	Year 11	Daren	Internship	4	Oral
Aurore Trevasikiss	Female	Violet	Year 11	Ashby	Field work	3	Quiz
Germain Ekins	Male	Turquoise	Year 11	Ashby	Theory	2	Project work
Thain Owbrick	Male	Teal	Year 11	Edward	Practical	2	Project work
Klarika Rolfi	Female	Indigo	Year 11	Clarita	Internship	2	Written
Deane Dodlmead	Female	Khaki	Year 11	Channa	Field work	2	Oral

now u see the full complete Left Joined table.... that has a relationship to every row

Query Se... x

PROPERTIES

Name

Students

All Properties

APPLIED STEPS

Source

Navigati...

Change...

Promote...

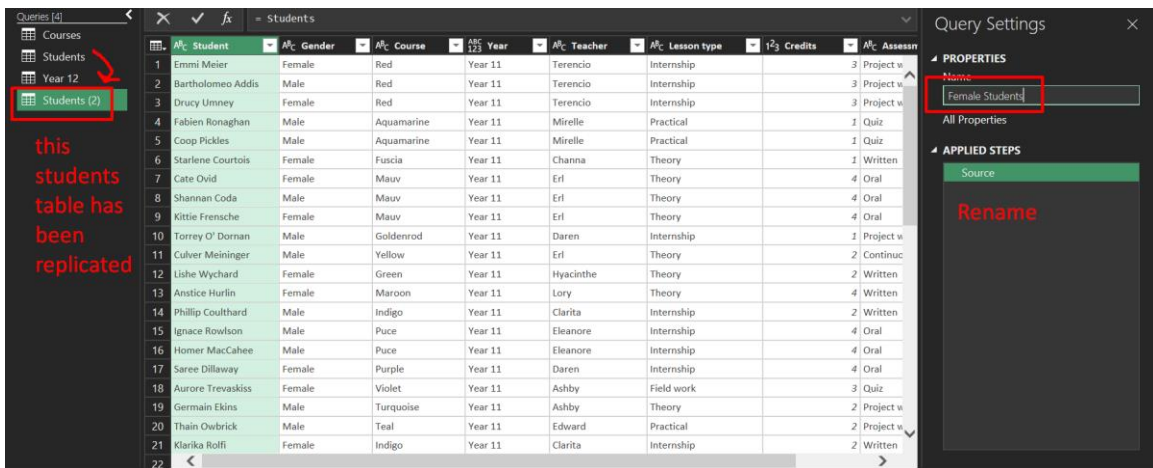
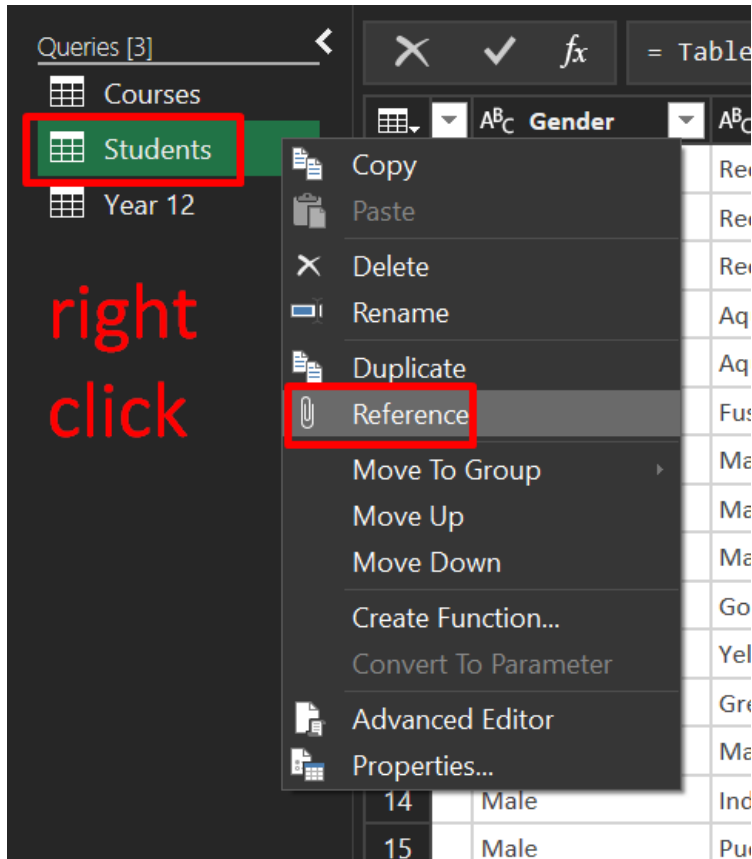
Change...

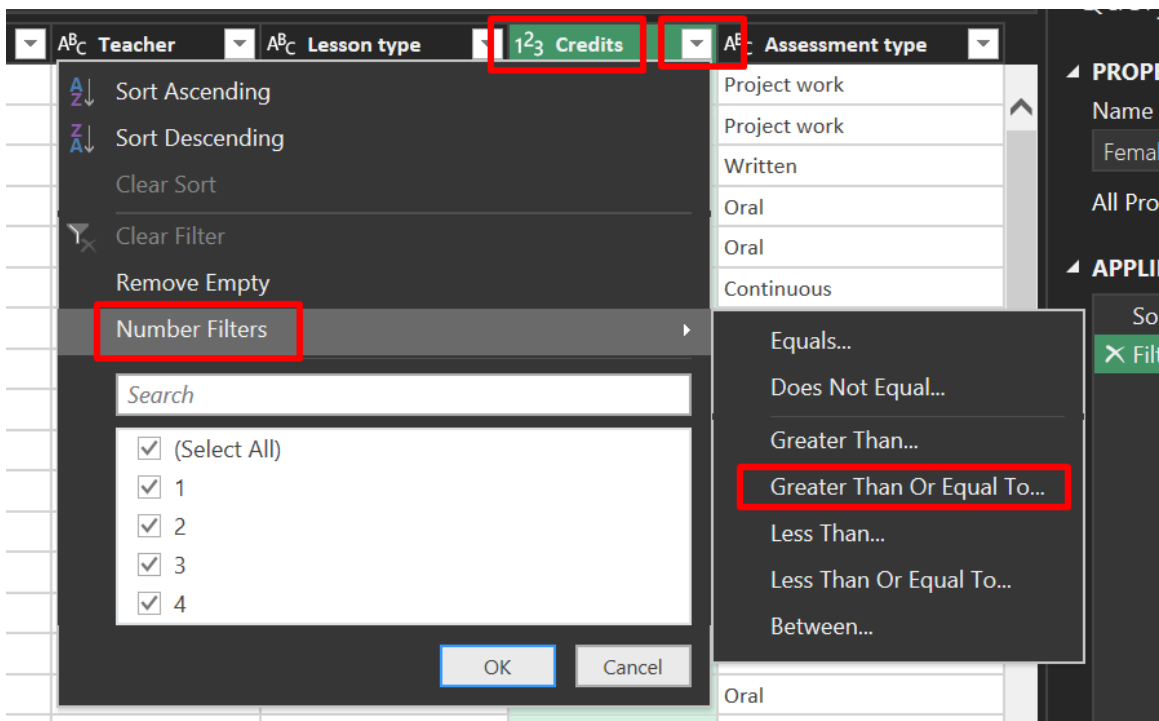
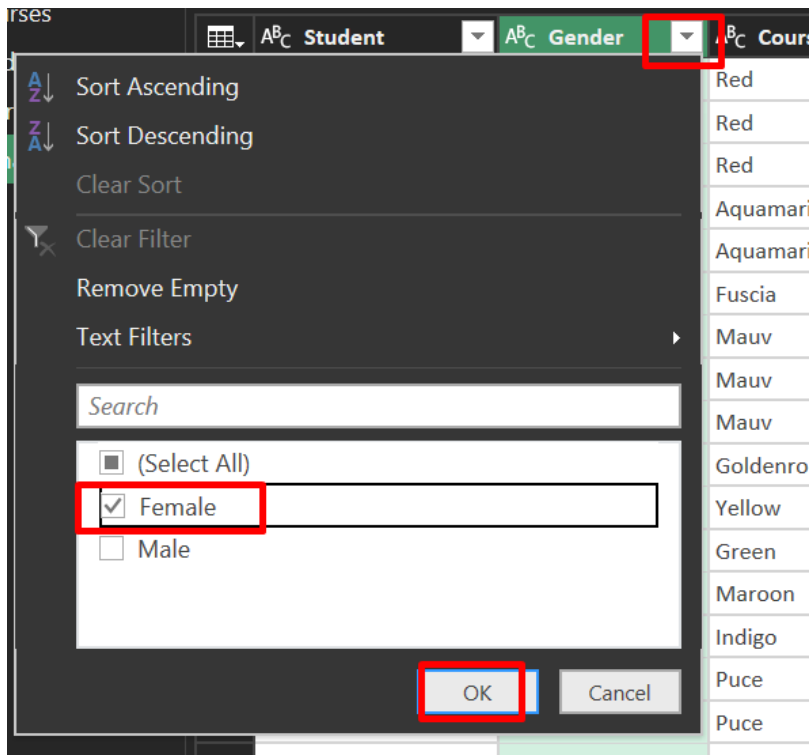
Added C...

Merged...

Expand...

E. REPLICATE TABLE AND FILTER ONLY FEMALE WITH ≥ 3 CREDITS





Filter Rows ×

Apply one or more filter conditions to the rows in this table.

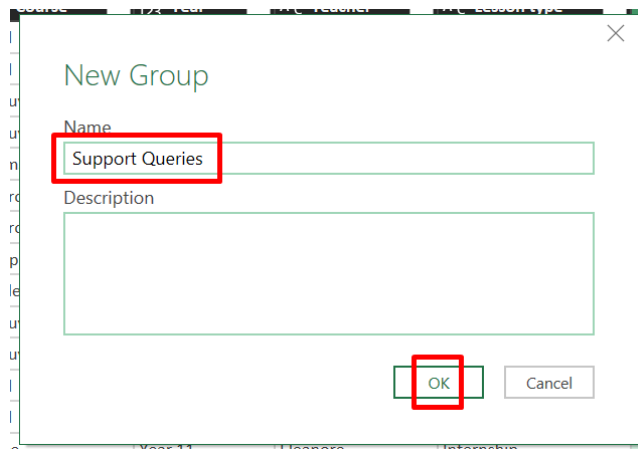
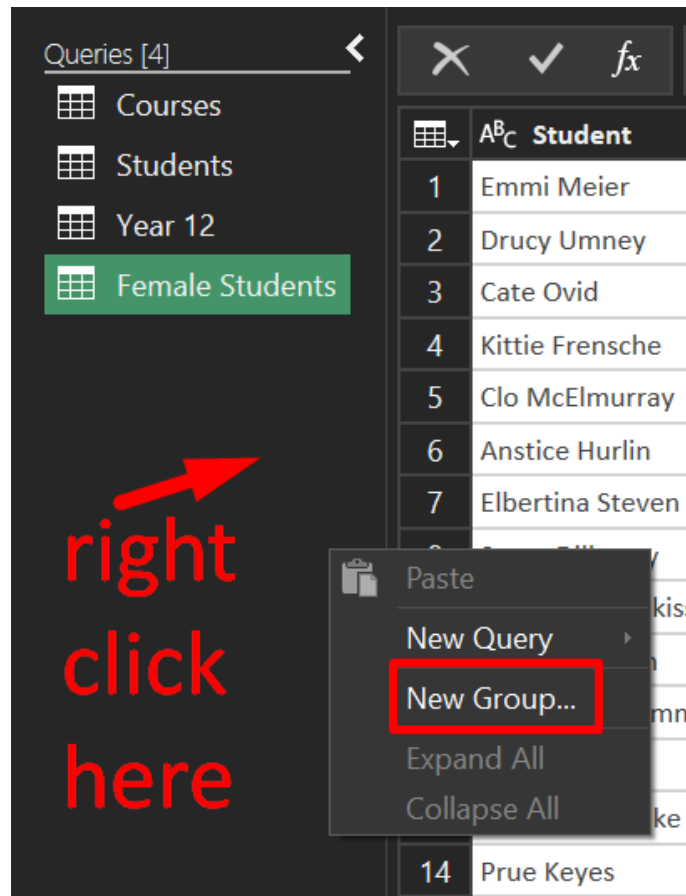
Basic Advanced

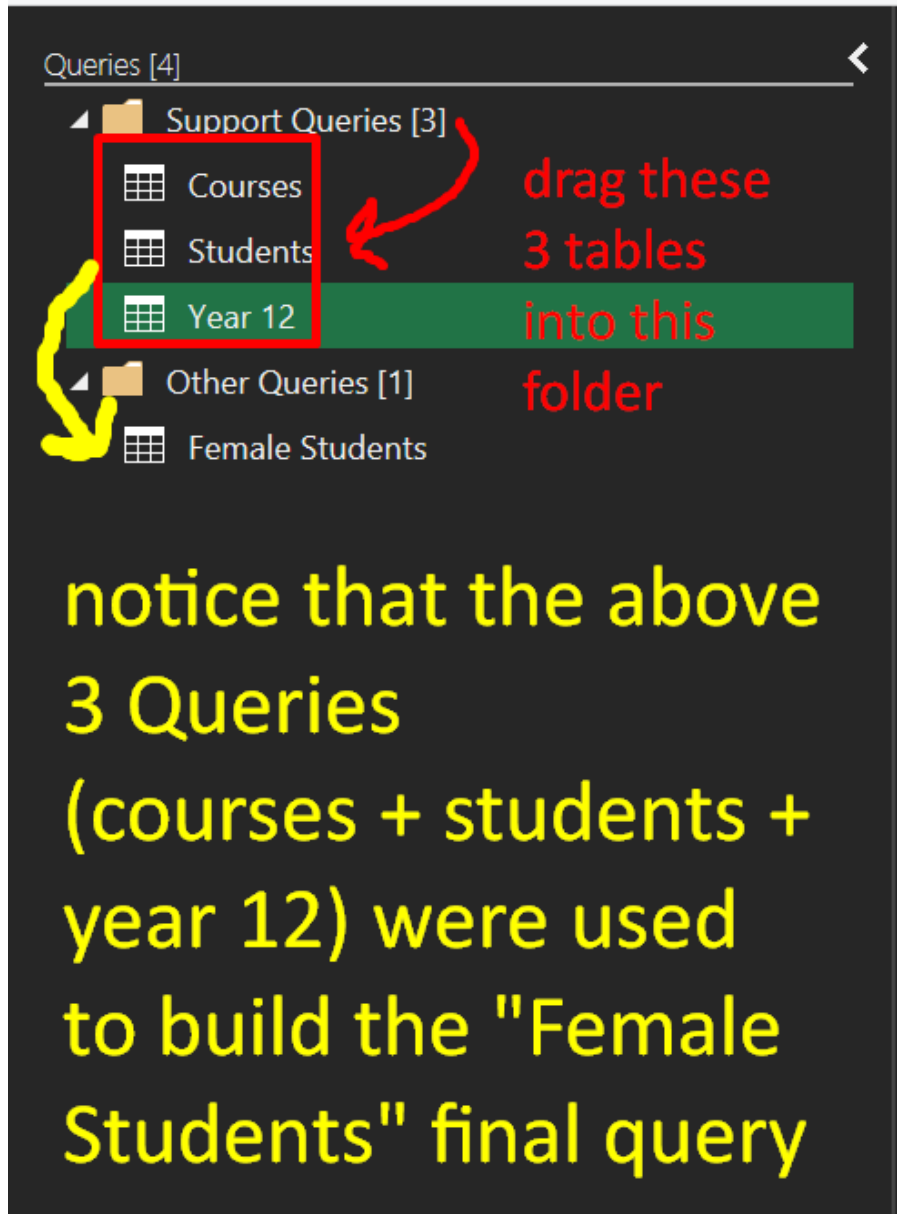
Keep rows where 'Credits'

is greater than or equal to

And Or

F. CREATING A NEW QUERY GROUP





The screenshot shows a hierarchical view of database queries. At the top is 'Queries [4]'. Below it is a folder 'Support Queries [3]' containing three tables: 'Courses', 'Students', and 'Year 12'. The 'Year 12' table is highlighted with a green bar. Below 'Support Queries' is another folder 'Other Queries [1]' containing a table 'Female Students'. A red box highlights the 'Courses', 'Students', and 'Year 12' tables. A red arrow points from the text 'drag these 3 tables into this folder' to the red box. A yellow arrow points from the text 'notice that the above 3 Queries (courses + students + year 12) were used to build the "Female Students" final query' to the 'Female Students' table.

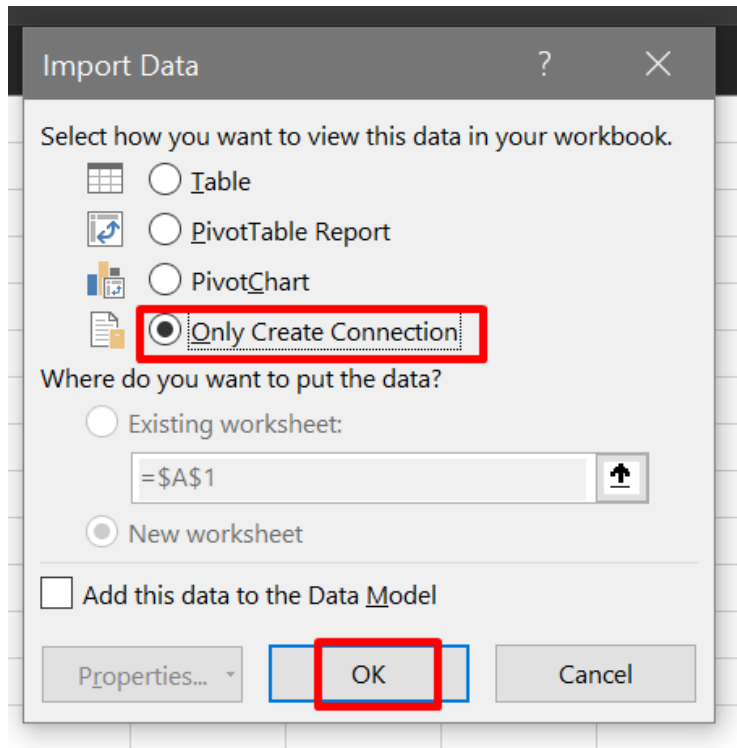
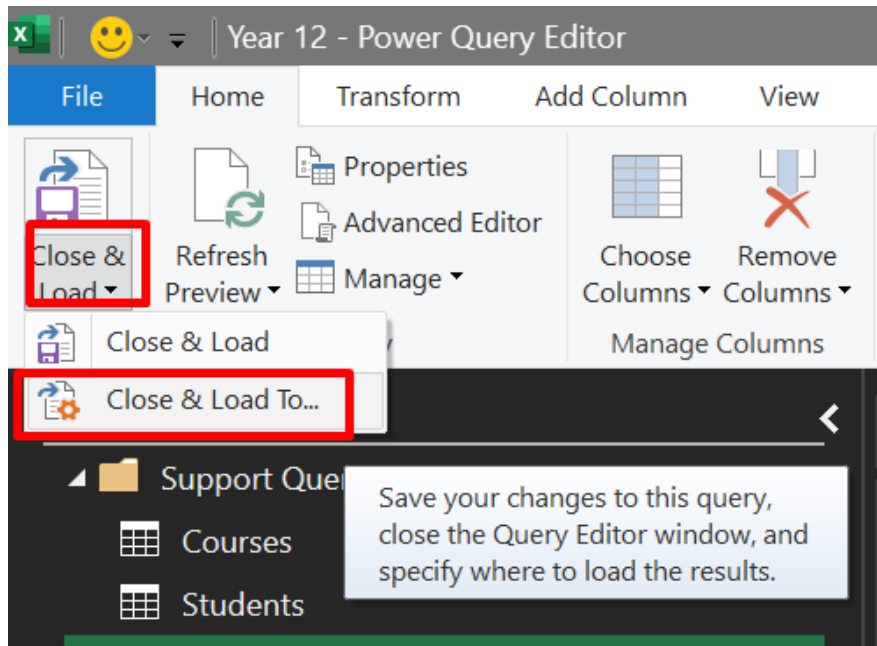
Queries [4]

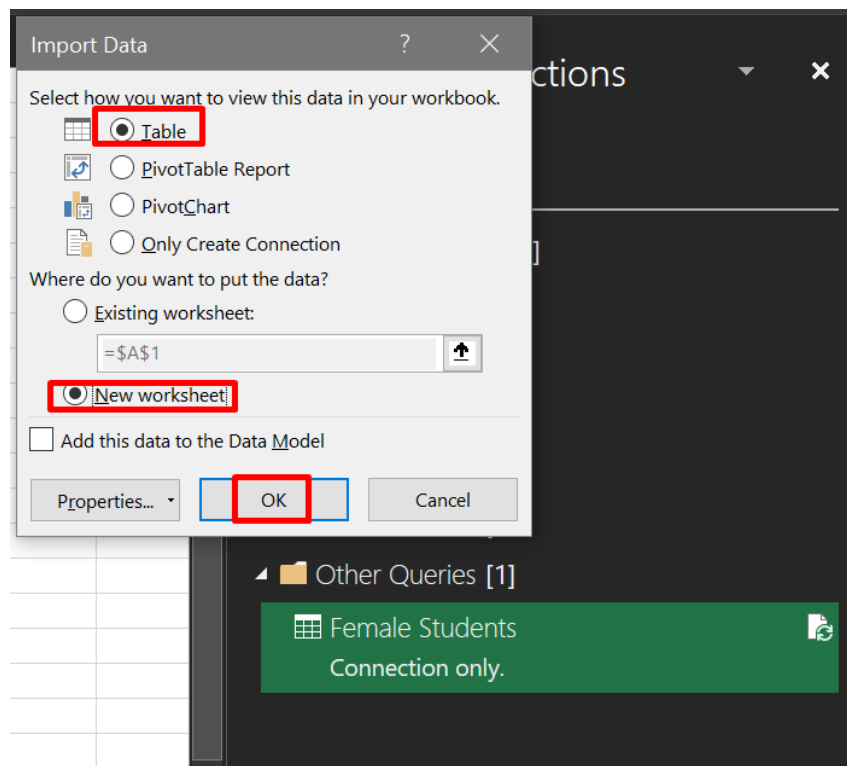
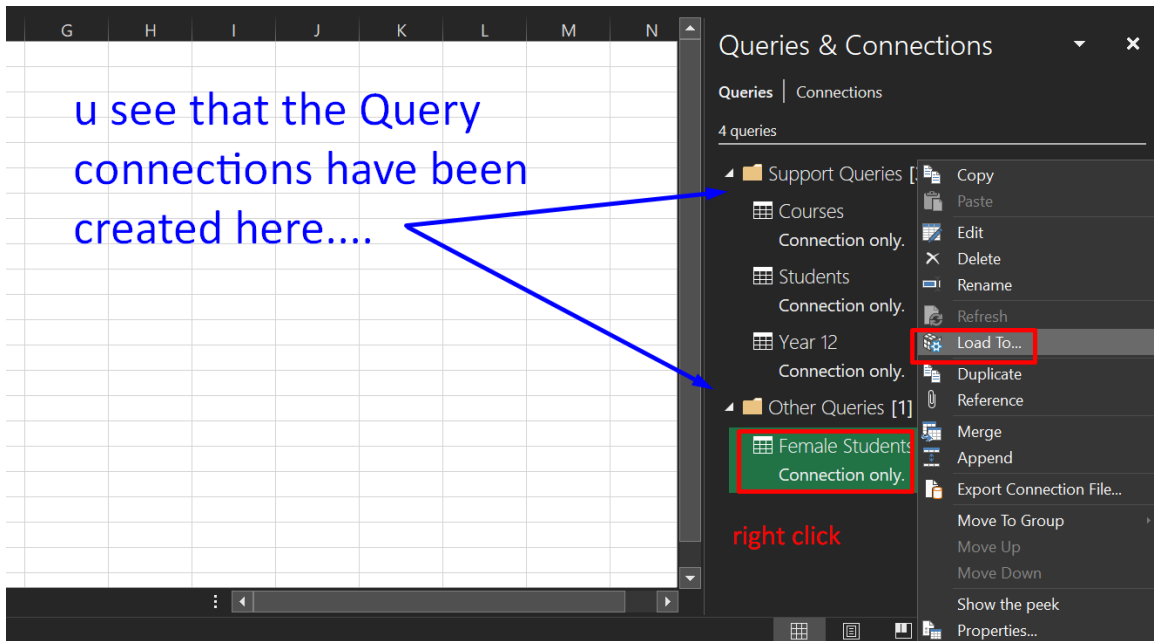
- Support Queries [3]
 - Courses
 - Students
 - Year 12
- Other Queries [1]
 - Female Students

drag these 3 tables into this folder

notice that the above 3 Queries (courses + students + year 12) were used to build the "Female Students" final query

G. CLOSE AND LOAD TO....





Student	Gender	Course	Year	Teacher	Lesson type	Credits	Assessment type
Emmi Meier	Female	Red	Year 11	Terencio	Internship	3	Project work
Drucy Umney	Female	Red	Year 11	Terencio	Internship	3	Project work
Cate Ovid	Female	Mauv	Year 11	Erl	Theory	4	Oral
Kittie Frensche	Female	Mauv	Year 11	Erl	Theory	4	Oral
Clo McElmurray	Female	Crimson	Year 11	Maxie	Theory	3	Continuous
Anstice Hurlin	Female	Maroon	Year 11	Lory	Theory	4	Written
Elbertina Steven	Female	Maroon	Year 11	Lory	Theory	4	Written
Saree Dillaway	Female	Purple	Year 11	Daren	Internship	4	Oral
Aurore Trevasikiss	Female	Violet	Year 11	Ashby	Field work	3	Quiz
Elisa Tringham	Female	Mauv	Year 11	Erl	Theory	4	Oral
Roobbie McKimmie	Female	Mauv	Year 11	Erl	Theory	4	Oral
Kary Caselli	Female	Red	Year 11	Terencio	Internship	3	Project work
Mira Timberlake	Female	Red	Year 11	Terencio	Internship	3	Project work
Prue Keyes	Female	Puce	Year 11	Eleanore	Internship	4	Oral
Honorina Ingram	Female	Puce	Year 11	Eleanore	Internship	4	Oral
Tiff Castaner	Female	Purple	Year 11	Daren	Internship	4	Oral
Yvonne Gepheart	Female	Puce	Year 11	Eleanore	Internship	4	Oral
Kelly Lauchlan	Female	Red	Year 11	Terencio	Internship	3	Project work
Alejandrina Fundell	Female	Crimson	Year 11	Maxie	Theory	3	Continuous
Darcey MacMearty	Female	Violet	Year 11	Ashby	Field work	3	Quiz

final query with Female >=3 credits have been created!!

Female Students
55 rows loaded.

ABOUT DR. ALVIN ANG



Dr. Alvin Ang earned his Ph.D., Masters and Bachelor degrees from NTU, Singapore. He is a scientist, entrepreneur, as well as a personal/business advisor. More about him at www.AlvinAng.sg.