

Anne Walsh

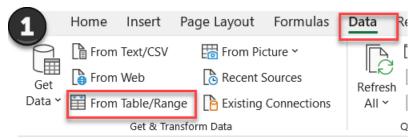
anne@the-excel-lady.com

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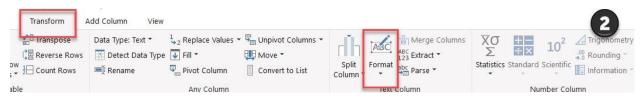
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Exercise One – Transforming Text

- 1. Open the file called Text_Transform
- 2. Click anywhere in the table of data e.g. A3. This data has already been converted to a table (DataClean)
- 3. Click on Data | From Table Range



- 4. This loads the data into Power Query
- 5. Note that most of what you will be doing here will be under the **Transform** Ribbon



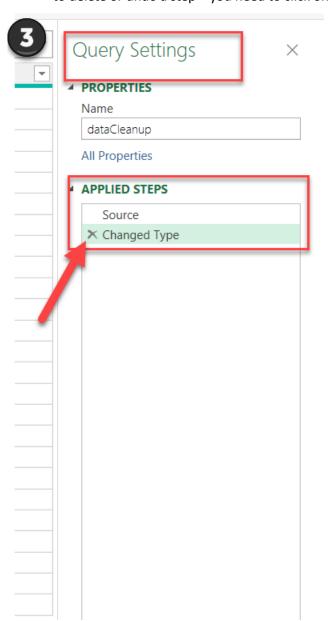
6. The heading of each column will tell you what you need to do e.g. lowercase – you must convert the data to lowercase.

7.

Name of column	Where to go	
lowercase	Transform Format Iowercase	
Uppercase	Transform Format UPPERCASE	
Split Column - Space	Transform Split Column By Delimiter	
AddPrefix of 100-	Transform Format Add Prefix	
AddSuffix – Extra Word	Transform Format Add Suffix	
Random – Split at colon	Transform Split Column By Delimiter	
First Three characters	Transform Extract First Characters	
Last two characters	Transform Extract Last Characters	
Combine Two columns	Highlight First Name column, then press the Shift key and highlight Last Name column.	
	Transform Merge Columns Choose space as separator and call the new column Merged	

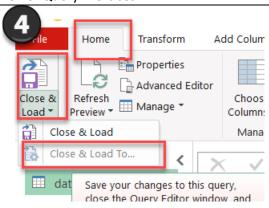
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8. Note that each step will appear on the **Query Settings** option on the right-hand side. If you wish to delete or undo a step – you need to click on the X beside the step.

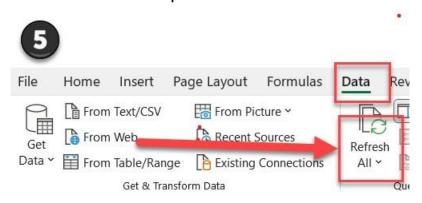


- 9. When you are finished, click on **Home | Close and Load | Close and Load to Table.**
- 10. This brings it back into Excel

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- 10. Note you will now have two sheets: **Text Clean up** (which is the original) and a new one called **DataClean**
- 11. Click in cell A3 in **Text clean up** and amend it to your name.
- 12. Then click on Data | Refresh All.



13. When you check in the new sheet – you should see your name in lowercase.

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Exercise Two – File Clean up

Aim of this exercise.

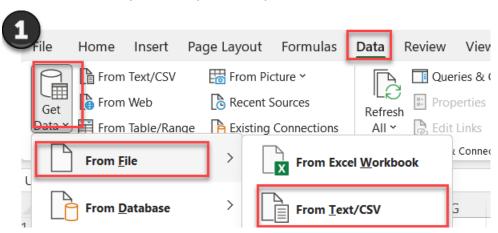
- Load a file into Power Query
- Do the cleansing
- Then apply this cleansing to a new file.

Note that what you need to do in this file is:

- Fill down Customer names
- Remove Totals (using filters)
- · Remove unwanted columns.
- Replace Values

You also want to set this up so that you can update it with a new file in the following month.

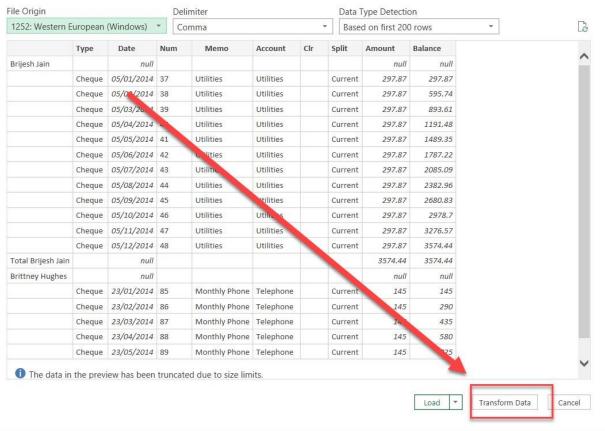
- 1. Open a blank Excel file
- 2. Click on Data | Get Data | From file | From Text/CSV



- 3. Open the file called File Clean up One and click on Import
- 4. Click on Transform Data

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- 5. This brings it into Power Query
- 6. Perform the following tasks

Location	Action	How
First column	Rename first column (Brijesh Jain) to Customer	Right click on Column name and choose Rename
Fill down customer names	Highlight first column	Transform Fill Fill Down Note: If for some reason it does not fill down, choose Transform Replace values. Leave the Value to Find blank. In the Replace With box, type in null (null is case sensitive) and then click OK. Now try the Fill Down
Remove Totals	Filter Customers	Text Filters Does not begin with Enter Total (note Total is case-sensitive) Remove the entry for TOTAL as well.

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Location	Action	How
Remove nulls from Date	Highlight Date Column	Filter to exclude null. Check that it is the Date Type (Transform Data Type Date)
Location	Action	How
Replace Values	Highlight Memo column	Transform Replace Values Leave Value To Find blank Type in No Memo in Replace With.
Cir Column	Remove Column	Right click on Clr column and click on Remove
Balance	Remove Column	Right click on Balance column and click on Remove

- 7. To bring it back into Excel
- 8. Click on Home | Close and Load | Close and Load To and choose Table

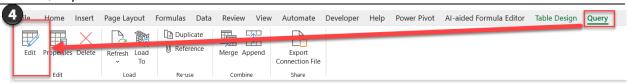


- 9. It is now pivot table ready.
- 10. Save the file as Number Clean up ONE
- 11. Check the total for **Amount** column (you can do this by using Autosum or checking the value in the status bar.
- 12. It should read 107842.7

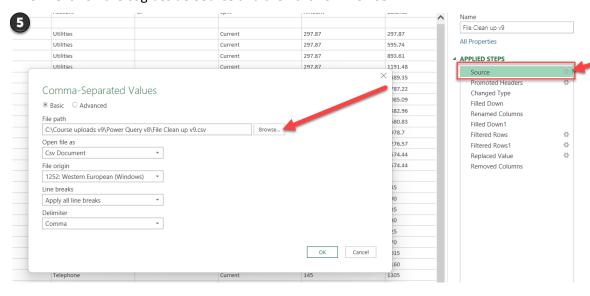
Step Two – reusing the steps

- 1. Using the file called Number Clean Up One
- 2. Click in the cleaned data
- 3. Click on Query | Edit

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- 4. Check Applied Steps on the right hand side
- 5. Click on the cog beside **Source** and then click on **Browse**

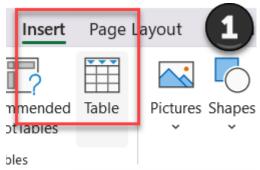


- 6. Navigate to the file called File Clean up Two and click Import
- 7. Do a **Close and Load** and you will see that you have new data and new customer names e.g. Menegilda Puddifoot and Peregrine Took.
 - The total of your new file should read 115668.27
- 8. Save this file as Second file clean up

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Exercise Three – Formatting dates in Power Query

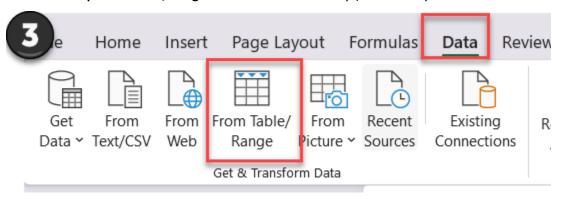
- 1. Open up the file called Dates_Exercise
- 2. Convert the data in A4:A94 into a table (Insert | Table)



3. Call it **Dates_Table** (this is so you know what it refers to in Power Query). Note that spaces are not allowed in table names.

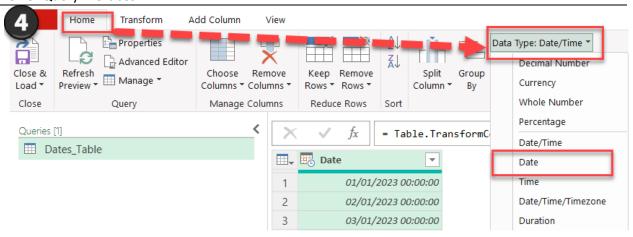


4. Data | From Table/Range - load into Power Query (make sure you are clicked in the table)

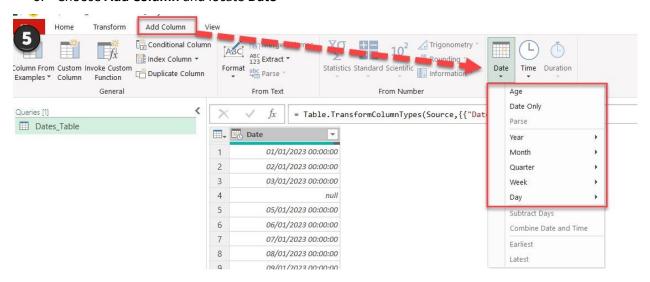


 Convert the dates into Date (Home - Data Type - Date). If you get a prompt, click on Replace Current

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6. Choose Add Column and locate Date

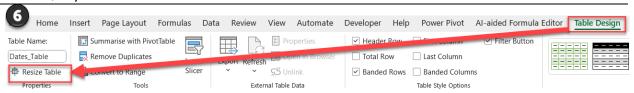


- 7. Experiment with the following:
- 8. Note that you must click back into the Date column before you do any of these otherwise these Date options will not be available to you.
- 9. Showing the year, name of month, quarter, week of year, week of month, day name etc.

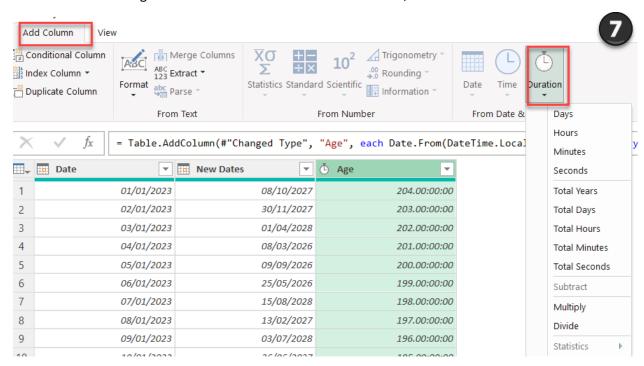
Stretch One – Calculating the Age

- 1. We want to add some more dates so click on Home | Close and Load and load as table
- 2. In the **Stretch** sheet copy and paste the list of New dates from the Stretch sheet into the Dates sheet (starting in B4).
- 3. We need to expand our table to include these.
- 4. Click in the original table e.g. A6
- 5. Click on Table Design | Resize Table

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- 6. Resize the table to include the new column
- 7. Click on **Data | From Table Range** and reload into Power Query
- 8. Note you will probably have to change both columns to **Date** again (step 4)
- 9. If you are prompted, click on **Replace current** 10. To calculate the Age, click on the Date column.
- 11. Choose Add Column | Date | Age
- 12. You will get a new column that will look weird . This is because it will show the duration in days.
- 13. Click on this Age column and from the Add Column ribbon, choose Duration

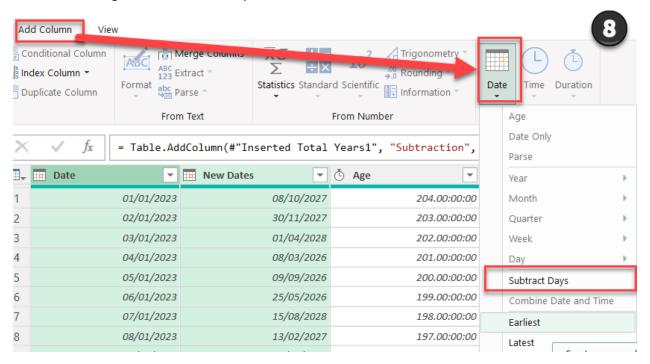


14. Experiment with the different options you get.

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Stretch Two – Calculating the difference between two dates

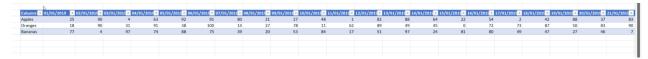
- 1. Highlight **New Dates** first, then highlight Date (note we do this because we want to start with our later dates which are in the New Dates column)
- 2. Click on Add Column | Date | Subtract Days
- 3. This will give us the value in days between the two dates



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Exercise Four – Unpivoting columns

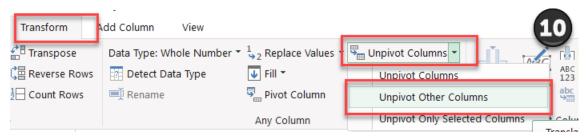
We often get our data in a pivoted format e.g. headings on left and dates across from left to right



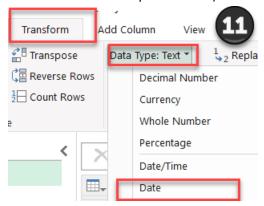
However, if we need to analyse this is in a different way, we often need to unpivot it. i.e. get the heading, date and amount on one row.

The easiest way to do this is in Power Query with Unpivot.

- 1. Open the file called Unpivot_Columns.
- 2. Navigate to the sheet called **Unpivot Columns**
- 3. Note that this table has already been renamed to *UnpivotOne*
- 4. Click anywhere in the data and choose Data | From Table/Range
- 5. This loads it into Power Query
- 6. Rename Column 1 to Fruit
- 7. Make sure you have selected the new *Fruit* column.
- 8. Click on Transform | Unpivot columns | Unpivot Other Columns



- 9. Rename the new **Attribute** column to Date
- 10. Highlight it and make sure it has the data type Date (otherwise it will not function as a date if you need to run a pivot from it)



- 11. Rename the Value column to Amount.
- 12. Then click on Home | Close and Load | Close and Load to Table
- 13. This brings it back into Excel where it can be manipulated in any way you wish.

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Stretch – Unpivot the data in the Actuals sheet

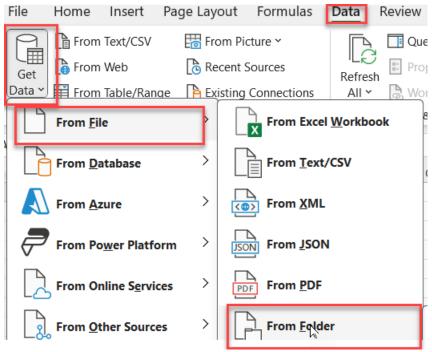
- 1. Load the table into Power Query
- 2. Note you will need to do a fill down on Costs, remove rows that start with Total and then do an unpivot

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Exercise Four – combining data in a folder.

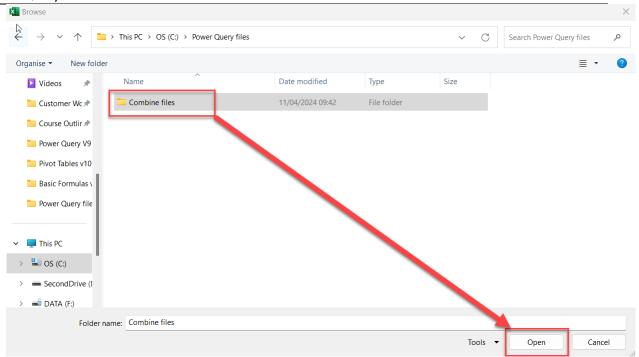
In this exercise we are going to combine the data from two files in a folder, create a pivot table and then update our pivot table after we add a new file.

- 1. Open a new blank file in Excel
- 2. Navigate to Data | Get Data | From File | From Folder

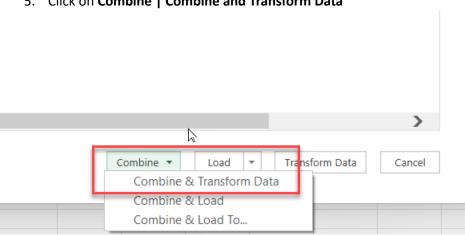


- 3. Navigate to the folder called Combine Files
- 4. Click on the folder and click on Open

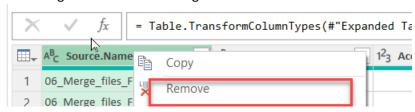
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5. Click on Combine | Combine and Transform Data

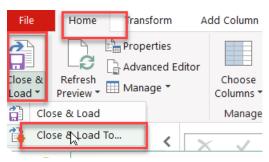


- 6. You will see a sample of the data
- 7. Click OK
- 8. This will load both files into Power Query
- 9. Check the Source. Name column and it should reference a January and February file only
- 10. Remove the column Source.Name
- 11. Right click on the heading and choose Remove

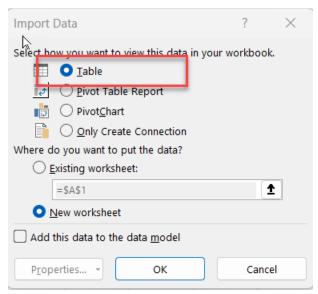


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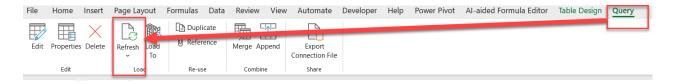
- 12. Check the Month to see that it references January and February.
- 13. Then click Home | Close and Load | Close and Load To



14. Choose Table and click OK



- 15. You should now see the data combined.
- 16. Save this file as January and February
- 17. Close the file.
- 18. Copy and paste Merge April into the Combine Files folder.
- 19. Navigate back to January and February file.
- 20. Open the file.
- 21. Click in the Combine Files table.
- 22. Click on Query | Refresh



23. Check the filter for Month and you will see that April is now there.

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Contact

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