

APPENDING TABLES IN POWER QUERY – DEMO NOTES


Demo: oscars_yes.csv, oscars_no.csv

1. Start with a blank workbook.
2. This time we will connect to a csv file. Still go to Data -> Get & Transform Data and select From Text/CSV.
 - a. Connect to oscars_yes.csv
 - i. Note: If we have the [direct URL to the file](#), we can connect to the CSV file that way.
 - b. An import menu will appear previewing the data. If we wanted to re-shape this data, we could select Transform Data at the bottom; however Excel seems to have done a good job with the import, so let's go ahead and load it to a table.

oscars_yes.csv

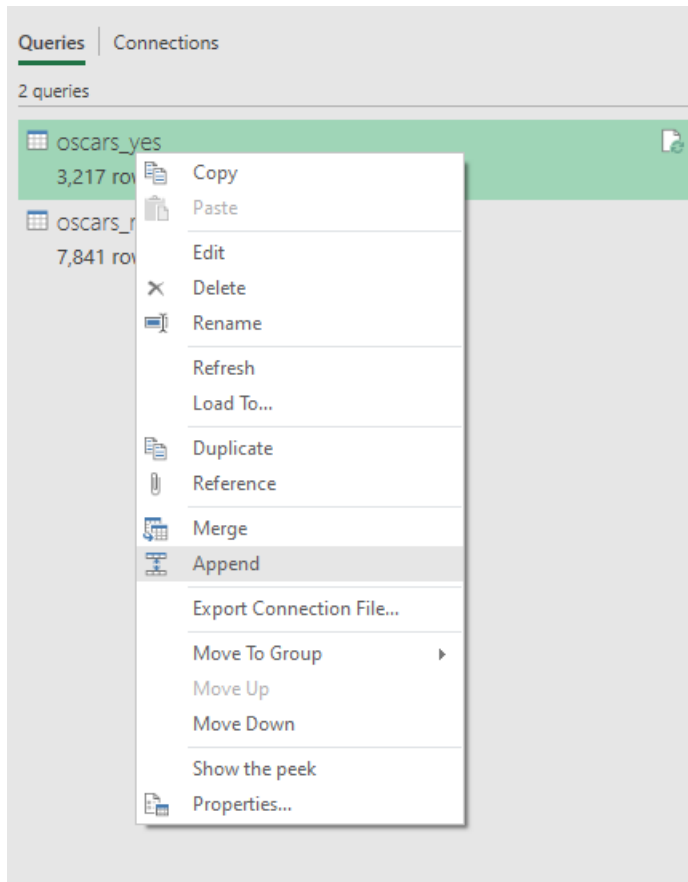
File Origin: 1252: Western European (Windows) | Delimiter: Comma | Data Type Detection: Based on first 200 rows

year	category	winner	entity
1927	ACTOR	TRUE	Emil Jannings
1927	ACTRESS	TRUE	Janet Gaynor
1927	ART DIRECTION	TRUE	William Cameron Menzies
1927	CINEMATOGRAPHY	TRUE	Charles Rosher
1927	CINEMATOGRAPHY	TRUE	Karl Struss
1927	DIRECTING (Comedy Picture)	TRUE	Lewis Milestone
1927	DIRECTING (Dramatic Picture)	TRUE	Frank Borzage
1927	ENGINEERING EFFECTS	TRUE	Roy Pomeroy
1927	OUTSTANDING PICTURE	TRUE	Paramount Famous Lasky
1927	UNIQUE AND ARTISTIC PICTURE	TRUE	Fox
1927	WRITING (Adaptation)	TRUE	Benjamin Glazer
1927	WRITING (Original Story)	TRUE	Ben Hecht
1927	WRITING (Title Writing)	TRUE	Joseph Farnham
1927	SPECIAL AWARD	TRUE	To Warner Bros., for producing The Jazz Singer, the pio...
1927	SPECIAL AWARD	TRUE	To Charles Chaplin, for acting, writing, directing and pro...
1928	ACTOR	TRUE	Warner Baxter
1928	ACTRESS	TRUE	Mary Pickford
1928	ART DIRECTION	TRUE	Cedric Gibbons
1928	CINEMATOGRAPHY	TRUE	Clyde De Vinna
1928	DIRECTING	TRUE	Frank Lloyd

 The data in the preview has been truncated due to size limits.

Load Transform Data Cancel

3. Do the same thing to export oscars_no.csv into this workbook.
4. There are now two queries in the Queries & Connections menu.
5. Right-click on the oscars_yes query and select Append.



6. Now we can append `oscars_no` to `oscars_yes`.

Append

Concatenate rows from two tables into a single table.

☒ Two tables ☐ Three or more tables

Primary table

oscars_yes

Table to append to the primary table

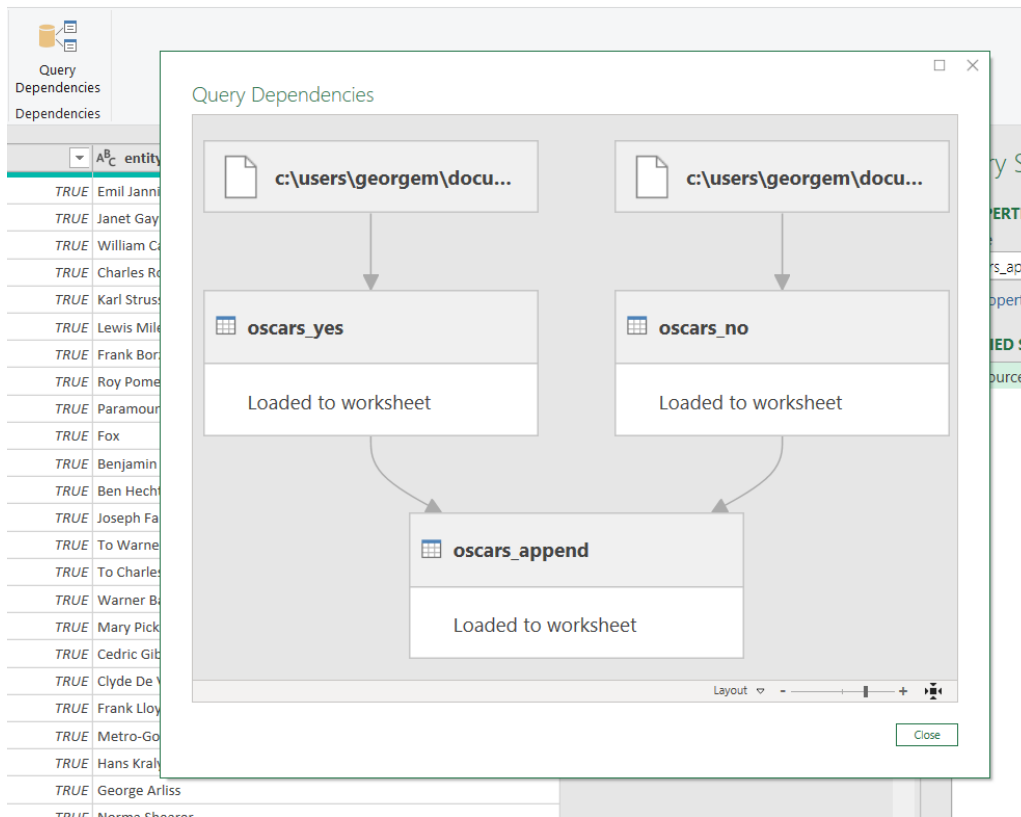
oscars_no

OK

Cancel

7. This will make a *new* query, named by default `Append1`. Rename it to `oscars_append`.
8. To get a visual look at how our workbook's queries are related, go to the **View** tab on the ribbon and select **Query Dependencies**.





Drill: hof_inducted.csv, hof_not_inducted.csv

1. Append these tables.

Demo: state-populations folder

This time we want to append the results of several files that are located in a folder. Instead of importing these in one at a time, we can read in the whole *folder* and append the data.

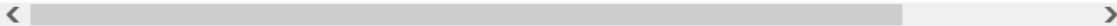
1. Open a blank Excel workbook and go to Data > Get Data > From File > From Folder
 - a. Locate your state-populations folder. You are now going to see all of your files listed in this folder. That is pretty nifty already! We are going to take it a step further by appending these files together.
 - i. To do that, select Combine > Combine & Transform Data





C:\Users\User\Documents\GitHub\olt-intro-to-excel-power-query\6-transforming-columns-ii\6-...

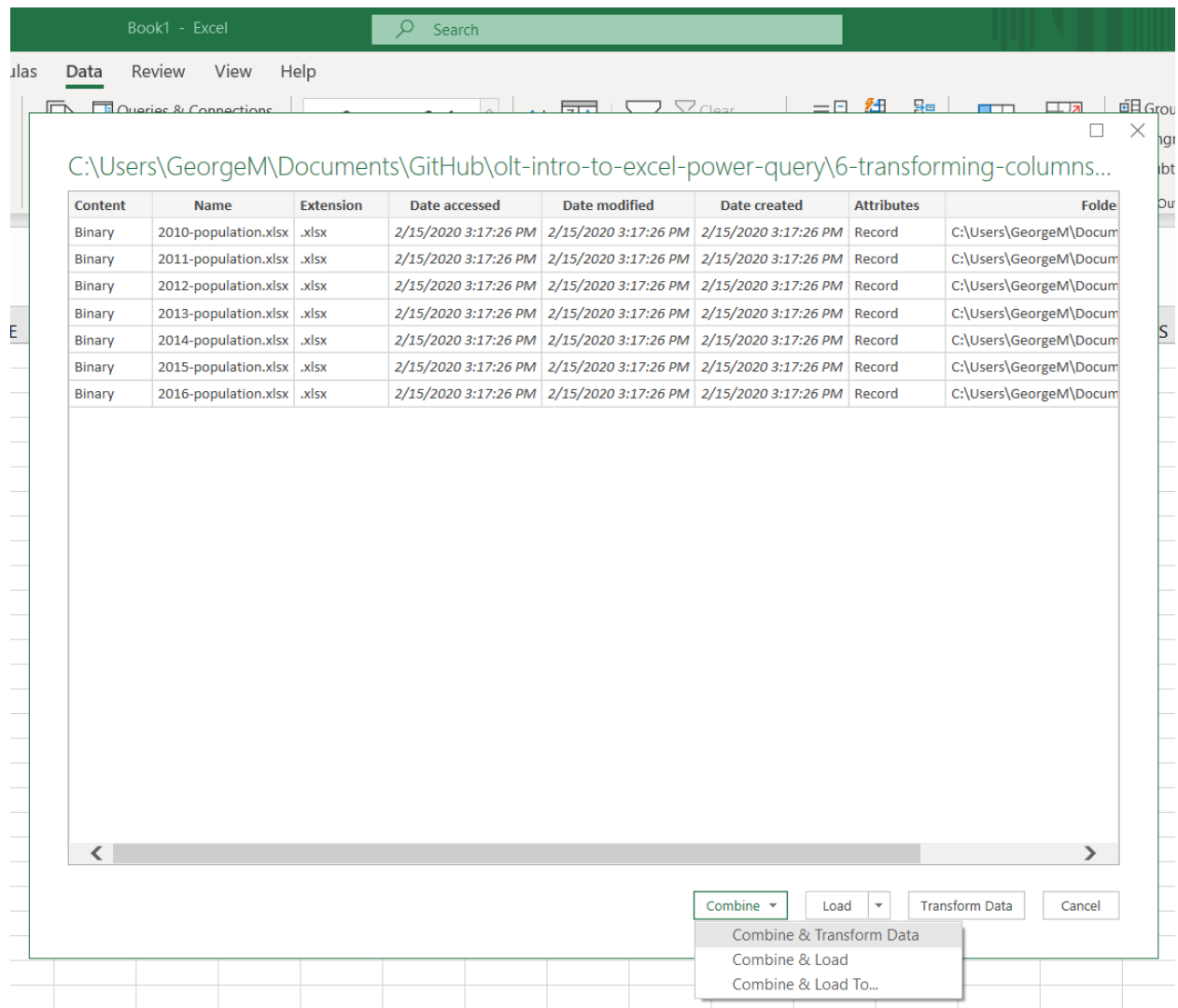
Content	Name	Extension	Date accessed	Date modified	Date created	Attributes	F
Binary	2010-population.xlsx	.xlsx	2/15/2020 12:27:31 PM	2/15/2020 12:27:31 PM	2/15/2020 12:23:43 PM	Record	C:\Users\User\Docum
Binary	2011-population.xlsx	.xlsx	2/15/2020 12:25:05 PM	2/15/2020 12:25:05 PM	2/15/2020 12:24:51 PM	Record	C:\Users\User\Docum
Binary	2012-population.xlsx	.xlsx	2/15/2020 12:25:50 PM	2/15/2020 12:25:50 PM	2/15/2020 12:25:22 PM	Record	C:\Users\User\Docum
Binary	2013-population.xlsx	.xlsx	2/15/2020 12:31:48 PM	2/15/2020 12:31:48 PM	2/15/2020 12:31:47 PM	Record	C:\Users\User\Docum
Binary	2014-population.xlsx	.xlsx	2/15/2020 12:26:39 PM	2/15/2020 12:26:39 PM	2/15/2020 12:26:39 PM	Record	C:\Users\User\Docum
Binary	2015-population.xlsx	.xlsx	2/15/2020 12:26:31 PM	2/15/2020 12:26:31 PM	2/15/2020 12:26:31 PM	Record	C:\Users\User\Docum
Binary	2016-population.xlsx	.xlsx	2/15/2020 12:27:26 PM	2/15/2020 12:27:26 PM	2/15/2020 12:27:26 PM	Record	C:\Users\User\Docum



Combine ▾ Load ▾ Transform Data Cancel

- We now need to select what we should be extracting from each file. We only have one worksheet each named the same thing, so this is pretty easy. We will select “Combine & Transform Data.”





3. Click on the “state-population-worksheet” as the object that we want to extract from our files. This is the same across *all* files which will make this a lot easier for us.
4. Now you are going to see all these files have been appended together, we have a separate column for the file name, we can get rid of that if we want.
 - a. Check out how we have a whole series of different queries to get to our result this time.



Queries [5]

- Transform File from...
- Helper Queries [3]
 - Parameter1 (Sa...)
 - Sample File
 - Transform File
 - Transform Sample...
- Other Queries [1]
 - state-populations

	Source Name	name	Year	Population
1	2010-population.xlsx	Alabama	2010	4785492
2	2010-population.xlsx	Alaska	2010	714031
3	2010-population.xlsx	Arizona	2010	6408312
4	2010-population.xlsx	Arkansas	2010	2921995
5	2010-population.xlsx	California	2010	37332685
6	2010-population.xlsx	Colorado	2010	5048644
7	2010-population.xlsx	Connecticut	2010	3579899
8	2010-population.xlsx	Delaware	2010	899216
9	2010-population.xlsx	District of Columbia	2010	605183
10	2010-population.xlsx	Florida	2010	18849098
11	2010-population.xlsx	Georgia	2010	9713521
12	2010-population.xlsx	Hawaii	2010	1363943
13	2010-population.xlsx	Idaho	2010	1571010
14	2010-population.xlsx	Illinois	2010	12841578
15	2010-population.xlsx	Indiana	2010	6490528
16	2010-population.xlsx	Iowa	2010	3050738
17	2010-population.xlsx	Kansas	2010	2858850
18	2010-population.xlsx	Kentucky	2010	4348662
19	2010-population.xlsx	Louisiana	2010	4544996
20	2010-population.xlsx	Maine	2010	1327730
21	2010-population.xlsx	Maryland	2010	5788584
22	2010-population.xlsx	Massachusetts	2010	6565524
23	2010-population.xlsx	Michigan	2010	9877499
24	2010-population.xlsx	Minnesota	2010	5311147
25	2010-population.xlsx	Mississippi	2010	2970322
26	2010-population.xlsx	Missouri	2010	5996118
27	2010-population.xlsx	Montana	2010	990641
28	2010-population.xlsx	Nebraska	2010	1830051
29	2010-population.xlsx	Nevada	2010	2703284
30	2010-population.xlsx	New Hampshire	2010	1316872

4 COLUMNS, 357 ROWS Column profiling based on top 1000 rows

Query Settings

PROPERTIES

Name

state-populations

All Properties

APPLIED STEPS

- Source
- Filtered Hidden Files1
- Invoke Custom Function1
- Renamed Columns1
- Removed Other Columns1
- Expanded Table Column1
- Changed Type

PREVIEW DOWNLOADED AT 3:23 PM

Drill: baseball folder

This is a download of the csv version of the [Lahman baseball database](#).

- See if you can get a table of *all* files in this folder using Power Query.
 - In this case we *do not* want to transform the data, just load a table of the file metadata.

