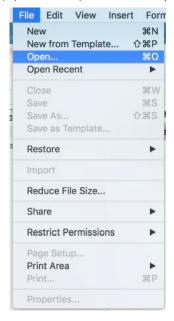
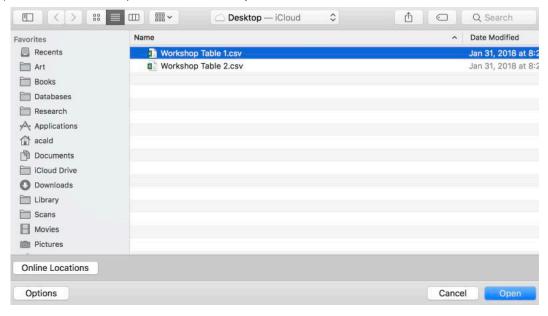
Open Workshop Files

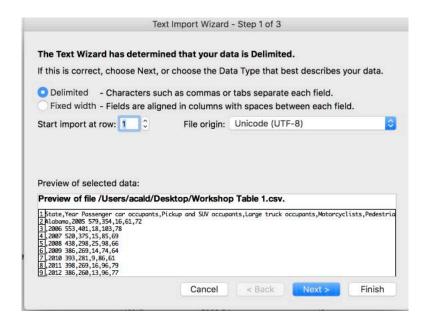
- 1) Download Workshop table 1.csv & Workshop table 2.csv to a location you can find the files.
- 2) Open the workshop files with the File>Open... Menu item



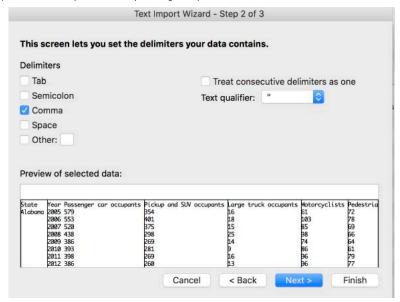
3) Select the file named Workshop Table 1.csv then click the "Open" button.



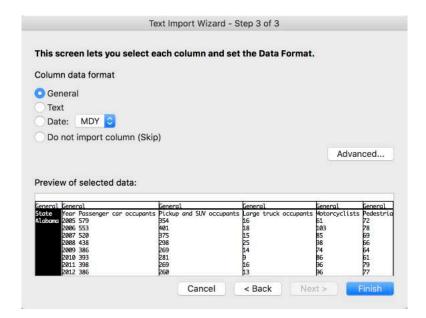
4) When the Text Import Wizard Step 1 dialog box opens click the "Next" button (Make no changes).



5) When the Text Import Wizard Step 2 dialog box opens un-check the "Tab" checkbox and select the "Comma" checkbox then click on the "Next" button.



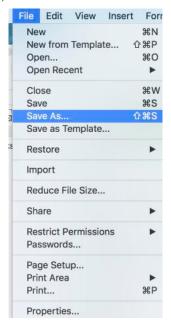
6) When the Text Import Wizard Step 3 dialog box opens just click on the "Finish" button.



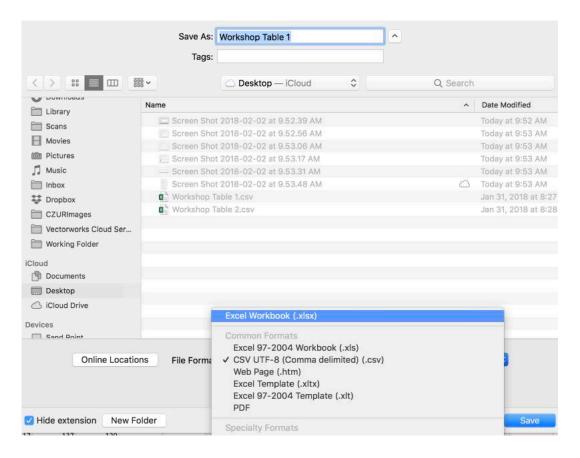
7) You should see a warning along the bottom to the tool bar indicating you should save your workbook as Excel format.

Possible Data Loss Some features might be lost if you save this workbook in the comma-delimited (.csv) format. To preserve these features, save it in an Excel file format.

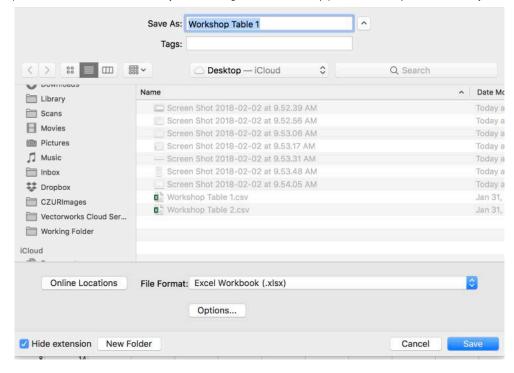
8) Either click the "Save As.." Button in the warning or goto "File>Save As.." menu item and save the file.



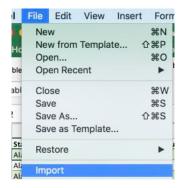
9) When the Save As dialog window opens make sure you change the format to Excel Workbook (.xlsx) format (note failure to do this will prevent several features form working as described in this tutorial).



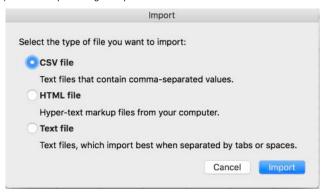
10) Select a location to save the file where you can find it again file like the desktop (the name is not important and will likely be Workshop Table 1 by default).



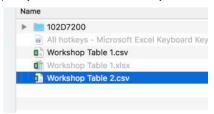
11) The next step is to import the second file onto a new sheet in the workbook. Select the "File>Import" menu item.



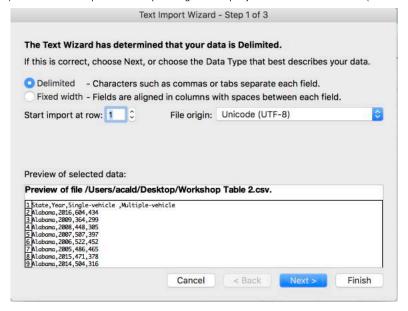
12) When the import dialog box opens select "CSV" file from the list.



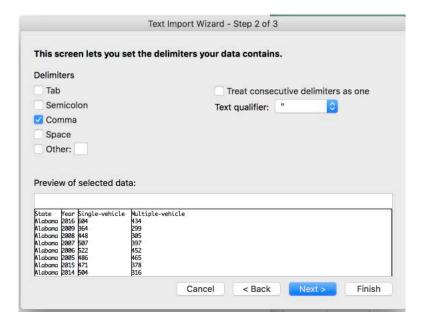
13) Next you will be asked where is the file you want to import. Navigate to the Worksheet Table 2.csv select the file and click the "OK" button.



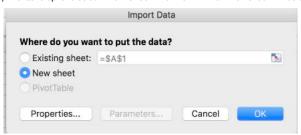
14) Next the the Text Import Wizard Step 1 dialog box will open just click on the "Next" button (make no changes)



15) When the Text Import Wizard Step 2 dialog box opens make sure "Comma" is the only checkbox checked then click the "Next" button.



16) The last step is to select "New Sheet" then "OK". A new worksheet will be created with the data from the Worksheet Table 2.csv file in it.

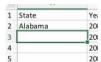


Data Cleaning

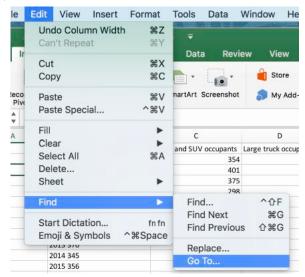
1) Switch back to the first worksheet named Workshop Table 1.



2) Select the cell directly under first state Alabama.



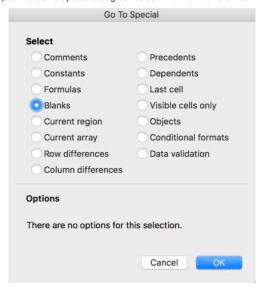
3) Select the menu item "Edit>Find>Go To.."



4) When the Go To dialog box opens click the " $\mbox{\bf Special...}$ " button.



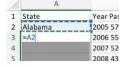
5) On the Go To Special dialog box select "Blanks" then click "OK".



6) With the cell still selected (don't click anything just leave the focus where it is on the cell under Alabama).



7) Type in "=" then click on the cell that contains "Alabama".



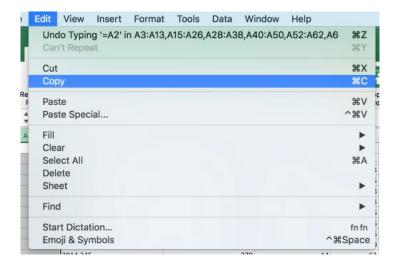
8) Next while holding down the "Control" key press "Enter". All the empty cells should now have populated with state names.



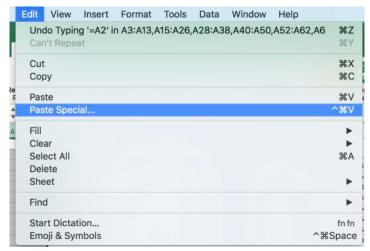
9) Next select the whole column (A) that contains the state names.



10) Copy the contents of the column by either using the "Command" and "C" keys or the copy command from the "Edit>Copy" menu item.



11) Select "Paste Special..." form the Edit menu.



12) When the Paste Special dialog box opens select "Values" form the Paste section and "None" from the Operation section then click "OK"

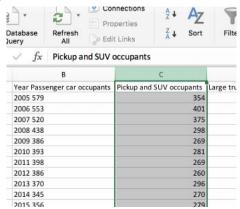


13) Press the "Esc" key to de-select the first column.

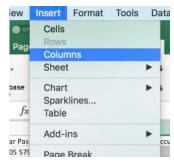
Split a field



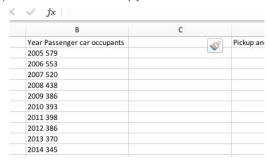
2) First select the column "C".



3) Next form the Insert menu select "Columns" to insert a new empty column to the right of column "B"



4) Column "C" should now be empty.



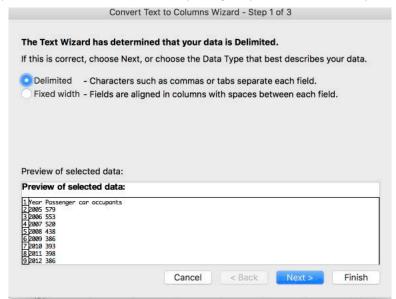
5) Select column "B"



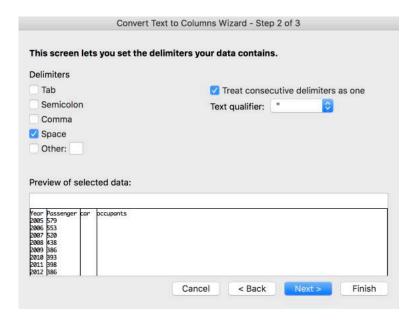
6) Click on the "Data" tab and then click on the "Text to Columns" button.



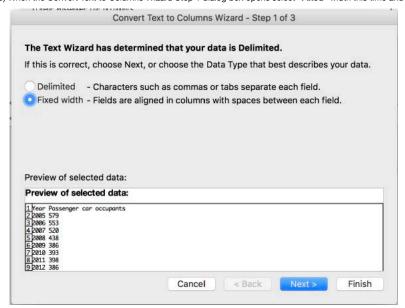
7) When the Convert Text to Columns Wizard Step 1 dialog box opens select "Delimited" then press the "Next" button.



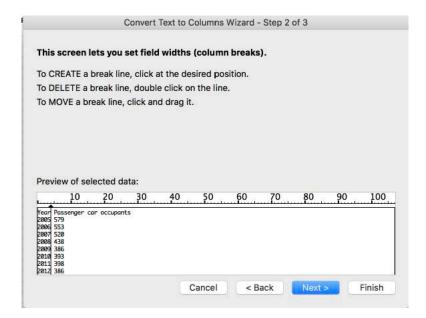
8) When the Convert Text to Columns Wizard Step 2 dialog box opens select "Space". As you can see the data is being split correctly, but the header is not because there are more than one space in the heater title. Click on the "Back" button.



9) When the Convert Text to Columns Wizard Step 1 dialog box opens select "Fixed" width this time and then press the "Next" button.



10) Now the columns and headers look correct click the "Next" button.

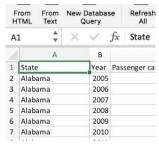


11) Now there should be two columns where there was once only one.

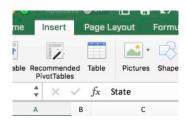
om xt		Datab Query	ase	Retresh All	o Edit Links	Ä	Sort
*	×	~	f_X				
			В		С		D
	Year				Passenger car occu	upants	Pickup a
				2005		579	
				2006		553	
				2007		520	i.
				2008		438	
				2009		386	
				2010		393	
				2011		398	
				2012		386	
				2013		370	
				2014		345	
				2015		356	
				2016		398	
				2005		34	
				2006		24	
				2007		34	
				2008		27	
				2008		27	
				2009		21	
				2010		19	
				2011		16	
				2012		24	
				2013		10	
				2014		20	
				2015		13	
				2016		16	

Make Tables

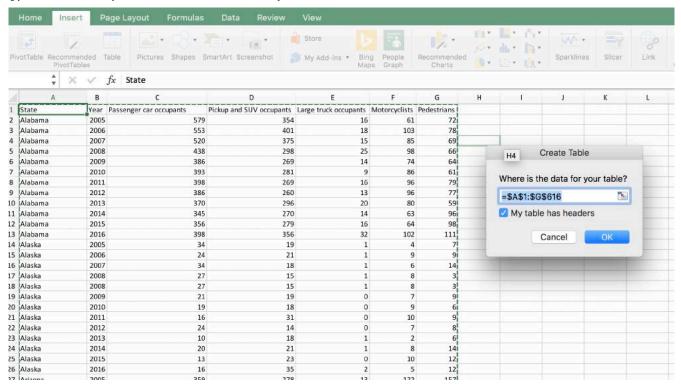
1) The next step is to turn our data into tables. Goto the worksheet Workshop Table 1 and select the first cell "A1".



2) Click on the "Insert" tab then click on the "Table" button.



3) A dialog box will open and ask what range you want to be included in the table. The data should already be selected. You should see a dotted line around your data if not drag your mouse cursor over your data until it is selected. Make sure "My table has headers" is selected then click "OK".



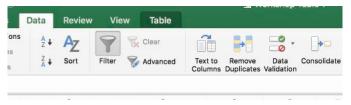
4) The data should now be converted to a table.

	A	В	c	D	E		
1	State 🔻	Year 🔻	Passenger car occupants	Pickup and SUV occupants ▼	Large truck occupants		
2	Alabama	2005	579	354			
3	Alabama	2006	553	401			
4	Alabama	2007	520	375			
5	Alabama	2008	438	298			
6	Alabama	2009	386	269			
7	Alabama	2010	393	281			
8	Alabama	2011	398	269			
9	Alabama	2012	386	260			
.0	Alabama	2013	370	296			
.1	Alabama	2014	345	270			
.2	Alabama	2015	356	279			
3	Alabama	2016	398	356			
4	Alaska	2005	34	19			
.5	Alaska	2006	24	21			
.6	Alaska	2007	34	18			
.7	Alaska	2008	27	15			
8	Alaska	2008	27	15			
9	Alaska	2009	21	19			
0	Alaska	2010	19	18			
11	Alaska	2011	16	31			
2	Alaska	2012	24	14			
13	Alaska	2013	10	18			
4	Alaska	2014	20	21			
15	Alaska	2015	13	23			
16	Alaska	2016	16	35			
!7	Arizona	2005	359	278			
8	Arizona	2006	452	384			
19	Arizona	2007	366	311			

5) Next we want to remove any duplicate records in the table. Select any cell in the table.



6) Select the "Data" tab then click the "Remove Duplicates" button.



7) A dialog will open asking what fields to use in the search. Leave them all selected and press the "OK" button.



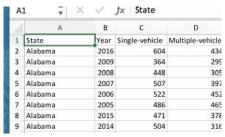
8) A dialog should open displaying the results.



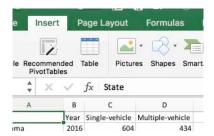
9) Next goto the Workshop Table 2 worksheet.



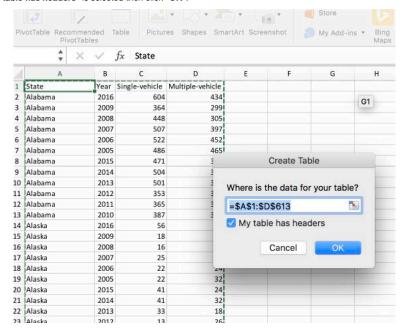
10) Select cell "A1".



11) Select the "Insert" tab then press the "Table" button.



12) A dialog box will open asking what range you want to be included in the table. As with the previous table the data should be selected if not select the data. Make sure "My table has headers" is selected then click "OK".



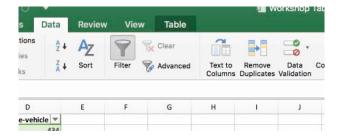
13) This time a dialog will open warning you your selection overlaps with external data ranges. Click the "Yes" button.



14) A new table is created from the existing data.

	A		В		c		D	E
1	State	v	Year	v	Single-vehicle	w	Multiple-vehicle	
2	Alabama		20	16		504	434	
3	Alabama		20	09		364	299	
4	Alabama		20	08		148	305	
5	Alabama		20	07	- 1	507	397	
6	Alabama		20	06	- :	522	452	
7	Alabama		20	05		186	465	
8	Alabama		20	15	-	171	378	
9	Alabama		20	14		504	316	
10	Alabama		20	13		501	351	
11	Alabama		20	12		353	300	
12	Alabama		20	11		365	316	
13	Alabama		20	10		387	302	
14	Alaska		20	16		56	28	

15) Select any cell in the table and then select the "Data" tab then click on the "Remove Duplicates" button.



16) A dialog will open asking what fields to use in the search Leave them all selected and press the "OK" button.



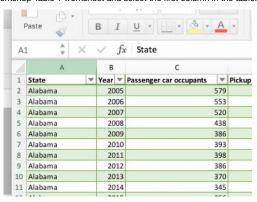
17) A dialog will open displaying the results.



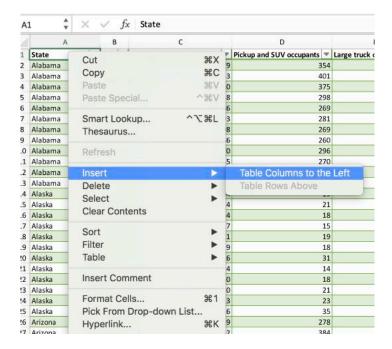
Table Join

1) In this section we will "Join" two tables using "VLOOKUP"

2) VLOOKUP relies on being able to "connect" the two tables by a related field. This field does not exist in either table so we will need to make it using other fields. Go to the Workshop Table 1 worksheet and select the first column in the table.



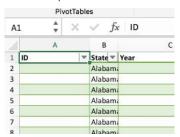
3) Next "Right click" and a menu will open. Select "Insert>Table Columns to the left".



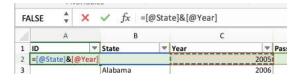
4) A new empty column should appear on the left.



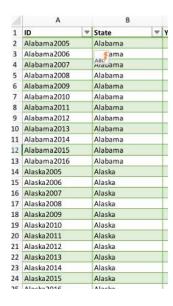
5) To crate a unique value that we can use to connect the two tables we will combine the State name and Year.



6) Select cell "A1" and type "=" then click on cell "B1". Next type "&" then click on cell "C1". Last click on the "Green Check" icon next to the formula bar.



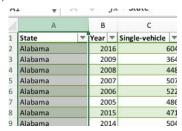
7) The table should auto fill the new formula in column "A" and display the result.



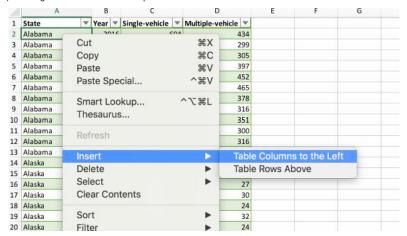
8) Next goto the Workshop Table 2 worksheet.



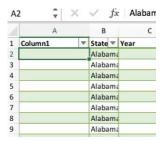
9) Select column "A" in the table.



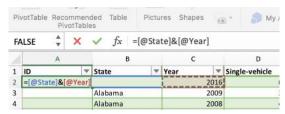
10) Next Right click and a menu will open. Select "Insert>Table Columns to the left".



11) A new empty column should appear on the left.



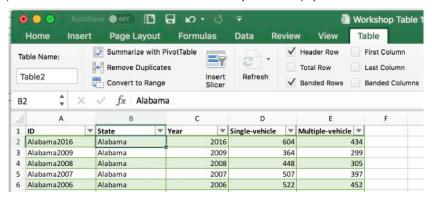
12) Select cell "A1" and type "=" then click on cell "B". Next type "&" then click on cell "C1". Last click on the "Green Check" icon next to the formula bar.



13) The table should auto fill the new formula in column "A" and display the result.



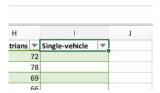
14) Make a note of the "table name" and "Column Numbers" you want to display in the other table. In this case the table is "Table2" and the columns are "4" & "5".



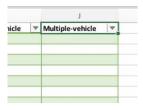
15) Return to Workshop Table 1.



16) At the far right column of the table type in the header cell "Single-Vehicle" then press "Return". A new column will appear.



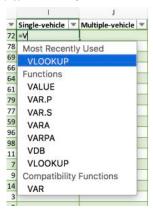
17) Repeat the process again this time typing "Multiple-Vehicle" You should now have two new empty columns on the right side of your table.



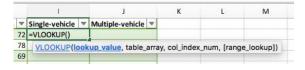
18) Select the first empty cell under the "Single-Vehicle" header.

Н		1		J		K
trians	w	Single-vehicle	W	Multiple-vehicle	w	
	72					
	78					
	69					
	66					
	64					
	61					
	79					

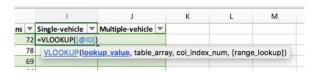
19) Type the following formula "=VLOOKUP". As you type a popup should appear you can either type the function or select it form the list.



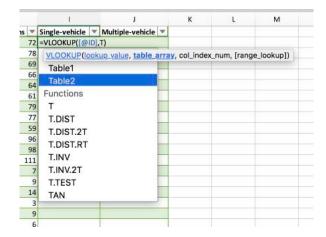
20) Another popup will appear showing you what arguments are required for the formula.



21) Next click cell "A2". This is the cell with our unique lookup value.



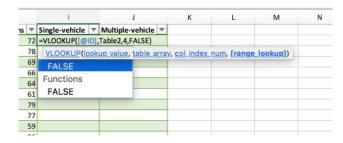
22) Next type "," then start typing "Table 2" (the name of the table in our other worksheet). A popup will appear with the tables in our worksheet you can select from the list or simply type it in.



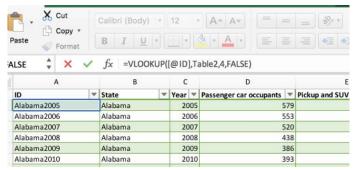
23) Next type "," then "4" (this is the column we want to return form the other worksheet).



24) Finally type another "," and the word "FALSE" (do not pick FALSE from the popup list). Click the "Green Check" to accept the formula.



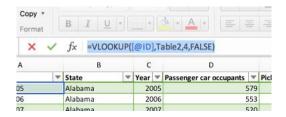
25) Column "D" should now be filled with related values form Workshop Table 2.



26) Next we want to repeat the process for column "J" but instead of re-typing the whole formula we can simply copy paste the formula in to the cell and change the column to return value. Select cell "I2"



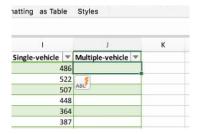
27) Select the formula in the formula bar.



28) Copy the formula to the clipboard.



29) Press the "Esc ' key to de-select the formula. Select cell "J2 ".



30) Paste the formula into the cell.



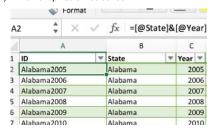
31) Next edit the formula and change the "4" to a "5". Press the "Green Check" box. The last column should now auto fill out with the values form Table2.



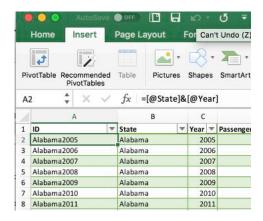
PivotTable

A pivot table is a table that summarizes data in another table, and is made by applying an operation such as sorting, averaging, or summing to data in the first table, typically including grouping of the data. - Wikipedia

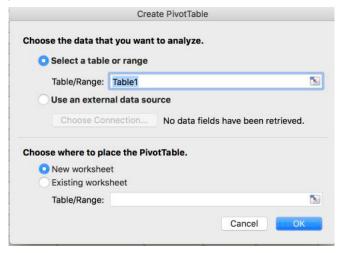
1) In Workshop Table 1 select cell "A2".



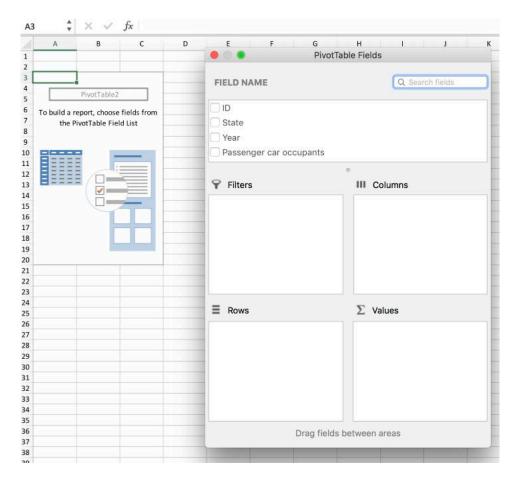
2) Select the "Insert" tab in the toolbar then click the "PivotTable" button.



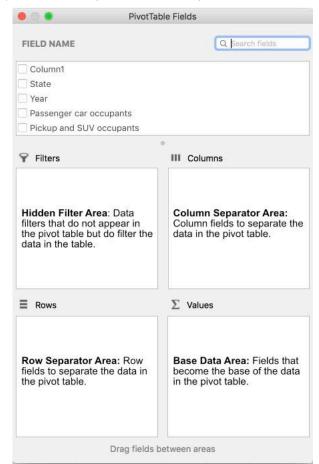
3) When the Crate PivotTable dialog box opens make sure "Select a table or range" is selected and "Table1" is being displayed. In addition make sure the "Choose where to place the PivotTable" is set to "New worksheet". Next click the "OK" button.



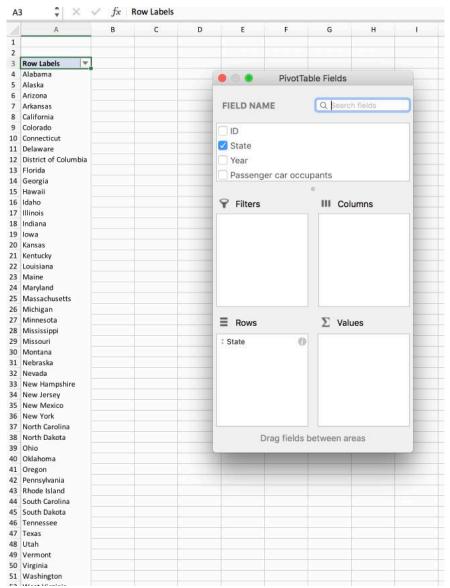
4) A new sheet will be crated and the PivotTable Fields dialog will be displayed.



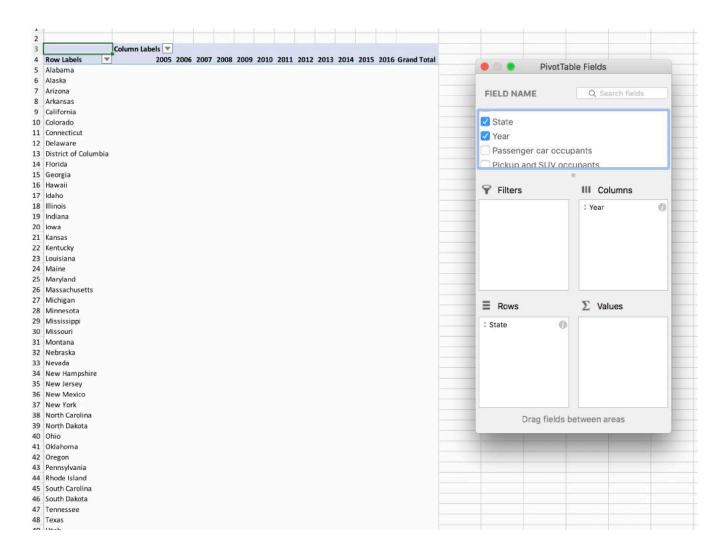
5) Below is a brief description of what the different pars of the PivotTable Fields dialog represent.



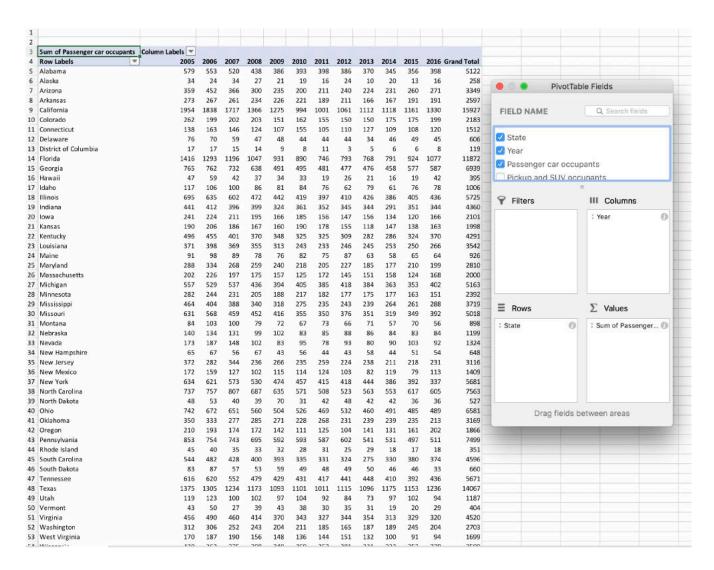
6) The easiest way to understand PivotTables is to play with the interface. Let's start by dragging the "State" field from the "Field Name" section to the "Rows" section. As you can see the state names fill out in the first column. You might also notice in worksheet table 1 the state names repeated one per year to create 613 rows. The PivotTable has summarized this into 51 rows.



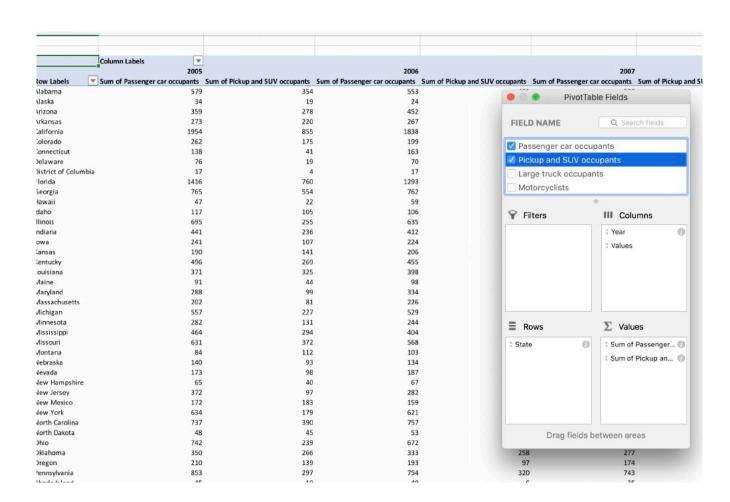
7) Next drag the "Year" field from the "Field Name" section to the "Columns" section. Now, we have years across the top of our table.



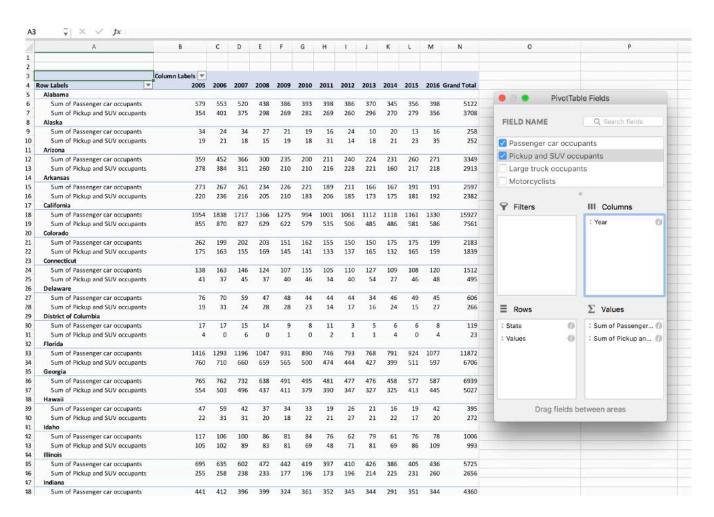
8) The next question to answer is what data to we want to see displayed for the various states and years. Drag "Passenger car occupants" from the "Field Name" section to the "Values" section. Passenger car occupants will now be displayed by year and state.



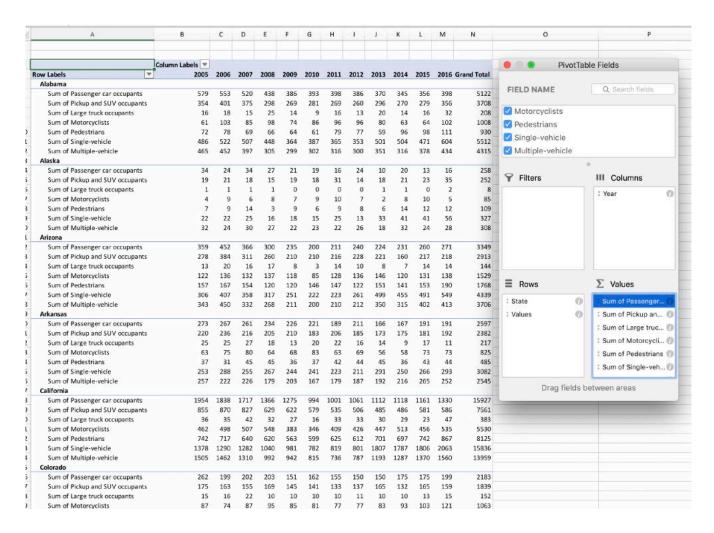
9) Let's add more data. In the "Field Name" section check the "Pickup and SUV occupants" field. The data now displays along side the Passenger car occupants data. We can see although all of our data is being displayed it's hard to read in this form.



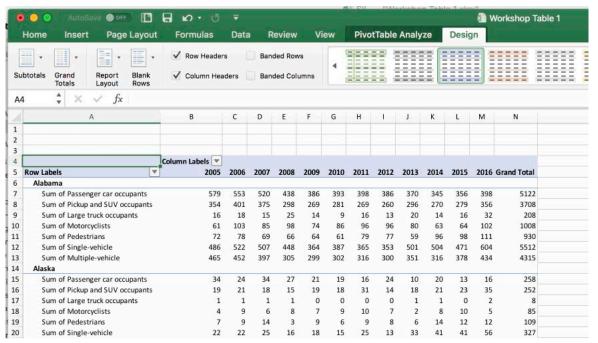
¹⁰⁾ Now we will try dragging "Values" from the "Values" section to the "Rows" section. Now, we see the data is more readable. What we have done is to change the display "Pivot" our values from columns to rows making it more readable.



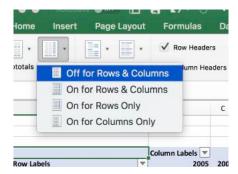
¹¹⁾ Select the remaining fields in the "Field Names" section to see the rest of the data displayed. By playing with the order and position of the various fields, you will be able to visualize your data in different ways.



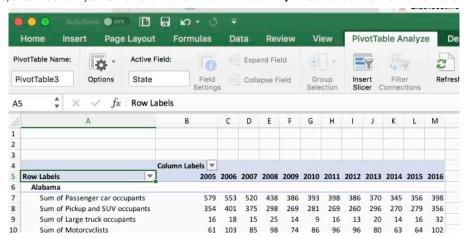
12) To remove the totals and subtotals form a PivotTable. Select a cell in the PivotTable. Next click on the "Design" tab (this tab and the PivotTable Analyze tab are only visible when a PivotTable is selected).



13) Click on the "Grand Totals" button and select "Off for Rows & Columns". The table will now display without totals and sub-totals.



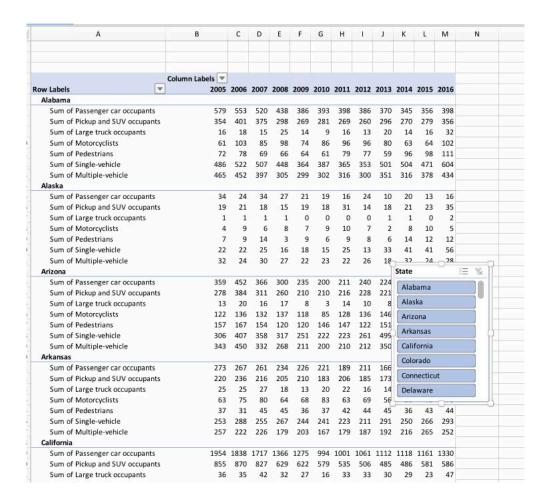
- 14) Using Slicers Filter buttons.
- 15) Select the column you want to filter on then click the "PivotTable Analyze" tab. Next click the "Insert Slicer" button.



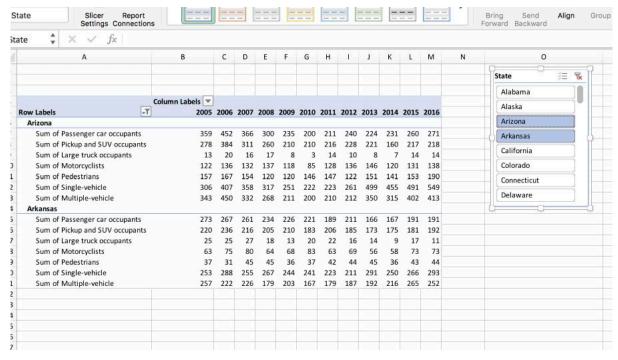
16) The Insert Slicers dialog box will open allowing you to select additional fields to filter on. For now just leave "State" selected and click the "OK" button.



17) A floating window will now appear allowing you to filter on various states by clicking the state name in the Slicer window.



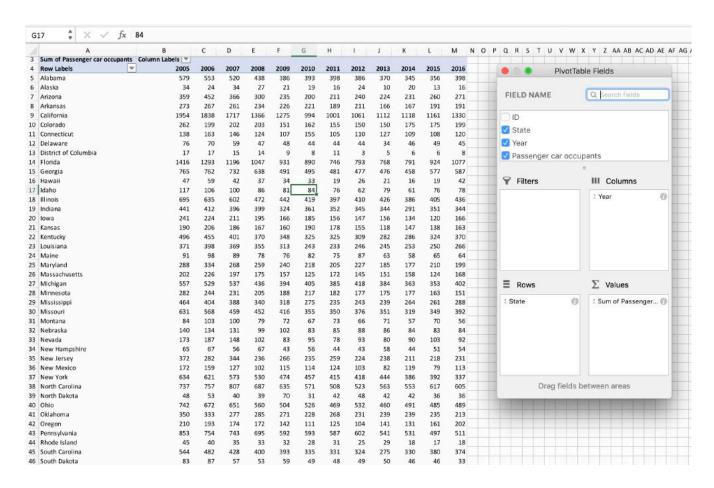
18) Clicking on the state names in the Slicer window "filters" your table to only the values you selected.



Conditional formating

1) What if we wanted to see in a graphic illustrating how different states compare in the category of numbers of passenger car occupants? We could use Conditional Formatting to help us.

2) first adjust you PivotTable to show "Year" in the Columns, "State" in the Rows, and "Passenger car occupants" in the Values section.



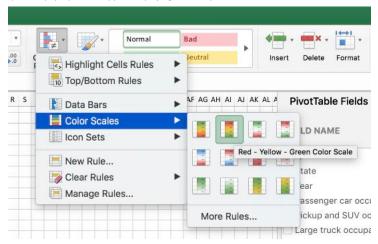
³⁾ Using your mouse select the range of values you want to format. Select only the "Passenger car occupants" data and nothing else.

um of Passenger car occupants	Column Labels													
ow Labels	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016		
labama	579	553	520	438	386	393	398	386	370	345	356	398		
laska	34	24	34	27	21	19	16	24	10	20	13	16		
rizona	359	452	366	300	235	200	211	240	224	231	260	271		
rkansas	273	267	261	234	226	221	189	211	166	167	191	191		
alifornia	1954	1838	1717	1366	1275	994	1001	1061	1112	1118	1161	1330		
olorado	262	199	202	203	151	162	155	150	150	175	175	199		
onnecticut	138	163	146	124	107	155	105	110	127	109	108	120		
elaware	76	70	59	47	48	44	44	44	34	46	49	45		
istrict of Columbia	17	17	15	14	9	8	11	3	5	6	6	8		
lorida	1416	1293	1196	1047	931	890	746	793	768	791	924	1077		
eorgia	765	762	732	638	491	495	481	477	476	458	577	587		
awaii	47	59	42	37	34	33	19	26	21	16	19	42		
laho	117	106	100	86	81	84	76	62	79	61	76	78		
linois	695	635	602	472	442	419	397	410	426	386	405	436		
ndiana	441	412	396	399	324	361	352	345	344	291	351	344		
wa	241	224	211	195	166	185	156	147	156	134	120	166		
ansas	190	206	186	167	160	190	178	155	118	147	138	163		
entucky	496	455	401	370	348	325	325	309	282	286	324	370		
puisiana	371	398	369	355	313	243	233	246	245	253	250	266		
laine	91	98	89	78	76	82	75	87	63	58	65	64		
larvland	288	334	268	259	240	218	205	227	185	177	210	199		
lassachusetts	202	226	197	175	157	125	172	145	151	158	124	168		
1ichigan	557	529	537	436	394	405	385	418	384	363	353	402		
linnesota	282	244	231	205	188	217	182	177	175	177	163	151		
1ississippi	464	404	388	340	318	275	235	243	239	264	261	288		
lissouri	631	568	459	452	416	355	350	376	351	319	349	392		
Iontana	84	103	100	79	72	67	73	66	71	57	70	56		
ebraska	140	134	131	99	102	83	85	88	86	84	83	84		
evada	173	187	148	102	83	95	78	93	80	90	103	92		
ew Hampshire	65	67	56	67	43	56	44	43	58	44	51	54		
	372	282	344	236	266	235	259	224	238	211	218	231		
ew Jersey ew Mexico	172	159	127	102	115	114	124	103	82	119	79	113	-	-
	7070												-	-
ew York	634	621	573	530	474	457	415	418	444	386	392	337	-	-
orth Carolina	737	757	807	687	635	571	508	523	563	553	617	605	-	
orth Dakota	48	53	40	39	70	31	42	48	42	42	36	36		
hio	742	672	651	560	504	526	469	532	460	491	485	489		
klahoma	350	333	277	285	271	228	268	231	239	239	235	213		
regon	210	193	174	172	142	111	125	104	141	131	161	202		
ennsylvania	853	754	743	695	592	593	587	602	541	531	497	511		
hode Island	45	40	35	33	32	28	31	25	29	18	17	18		
outh Carolina	544	482	428	400	393	335	331	324	275	330	380	374		
outh Dakota	83	87	57	53	59	49	48	49	50	46	46	33		
ennessee	616	620	552	479	429	431	417	441	448	410	392	436		
exas	1375	1305	1234	1173	1093	1101	1011	1115	1096	1175	1153	1236		

4) Select the "Home" tab then click on the "Conditional Formatting" button.



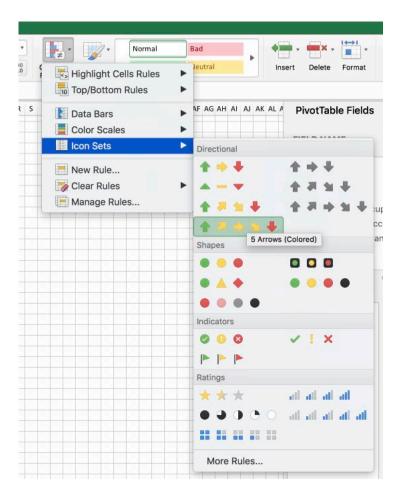
5) Next a pop-up list will appear displaying several options. Select "Color Scales>Red-Yellow-Green Color Scale".



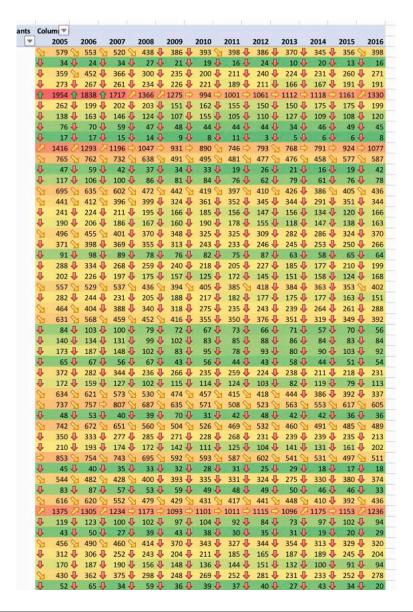
6) The cells of our PivotTable should now be colored based on their values. Red for high values and green for low values.

2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	201
579	553	520	438	386	393	398	386	370	345	356	398
34	24	34	27	21	19	16	24	10	20	13	10
359	452	366	300	235	200	211	240	224	231	260	27
273	267	261	234	226	221	189	211	166	167	191	19
 1954	1838	1717	1366	1275	994	1001	1061	1112	1118	1161	1330
262	199	202	203	151	162	155	150	150	175	175	19
138	163	146	124	107	155	105	110	127	109	108	12
76	70	59	47	48	44	44	44	34	46	49	4
17	17	15	14	9	8	11	3	5	6	6	
1416	1293	1196	1047	931	890	746	793	768	791	924	107
765	762	732	638	491	495	481	477	476	458	577	58
47	59	42	37	34	33	19	26	21	16	19	4
117	106	100	86	81	84	76	62	79	61	76	7
695	635	602	472	442	419	397	410	426	386	405	43
441	412	396	399	324	361	352	345	344	291	351	34
241	224	211	195	166	185	156	147	156	134	120	16
190	206	186	167	160	190	178	155	118	147	138	16
496	455	401	370	348	325	325	309	282	286	324	37
371	398	369	355	313	243	233	246	245	253	250	26
91	98	89	78	76	82	75	87	63	58	65	6
288	334	268	259	240	218	205	227	185	177	210	19
202	226	197	175	157	125	172	145	151	158	124	16
557	529	537	436	394	405	385	418	384	363	353	40
282	244	231	205		217	182	177	175	177		15
	404			188						163	28
464		388	340	318	275	235	243	239	264	261	
631	568	459	452	416	355	350	376	351	319	349	39
84	103	100	79	72	67	73	66	71	57	70	5
140	134	131	99	102	83	85	88	86	84	83	8
173	187	148	102	83	95	78	93	80	90	103	9
65	67	56	67	43	56	44	43	58	44	51	5
372	282	344	236	266	235	259	224	238	211	218	23
172	159	127	102	115	114	124	103	82	119	79	11
634	621	573	530	474	457	415	418	444	386	392	33
737	757	807	687	635	571	508	523	563	553	617	60
48	53	40	39	70	31	42	48	42	42	36	3
742	672	651	560	504	526	469	532	460	491	485	48
350	333	277	285	271	228	268	231	239	239	235	21
210	193	174	172	142	111	125	104	141	131	161	20
853	754	743	695	592	593	587	602	541	531	497	51
45	40	35	33	32	28	31	25	29	18	17	1
544	482	428	400	393	335	331	324	275	330	380	37
83	87	57	53	59	49	48	49	50	46	46	3
616	620	552	479	429	431	417	441	448	410	392	43
1375	1305	1234	1173	1093	1101	1011	1115	1096	1175	1153	123
119	123	100	102	97	104	92	84	73	97	102	9
43	50	27	39	43	38	30	35	31	19	20	2
456	490	460	414	370	343	327	344	354	313	329	32
312	306	252	243	204	211	185	165	187	189	245	20
170	187	190	156	148	136	144	151	132	100	91	9
430	362	375	298	248	269	252	281	231	233	252	27

⁷⁾ You can combine several Conditional Formatting rules to make more complex graphics. Lets add an arrow to each cell to illustrate the numeric trend. Repeat steps 3 & 4. When the pop-up list of formatting options appears select "Icon Sets>5 Arrows (colored)"

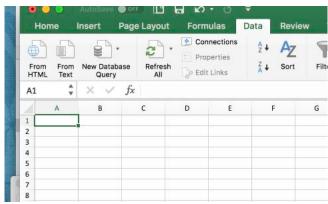


8) Our pivotTable now illustrates a heat table and trend arrows.

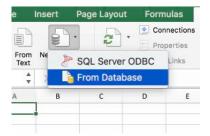


External Data Sources

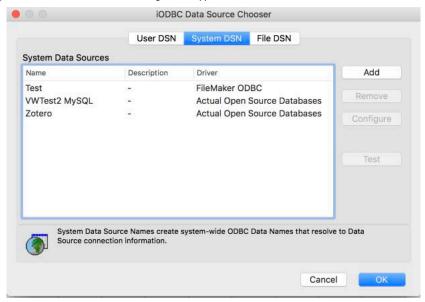
1) Open the worksheet or workbook you want to import your data into. Then select the "Data" tab.



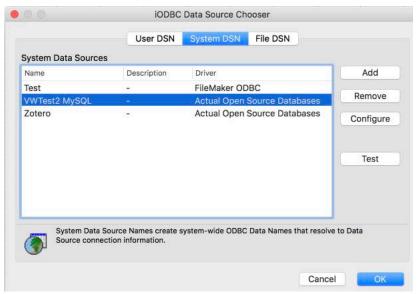
2) Next click on the "New Database Query" button. When the pop-up menu appears select "From Database"



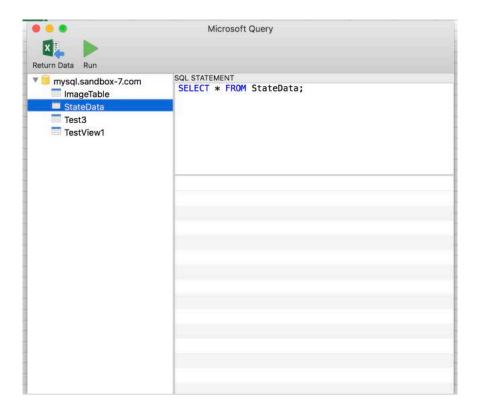
3) The iODBC Data Source Chooser dialog box will appear.



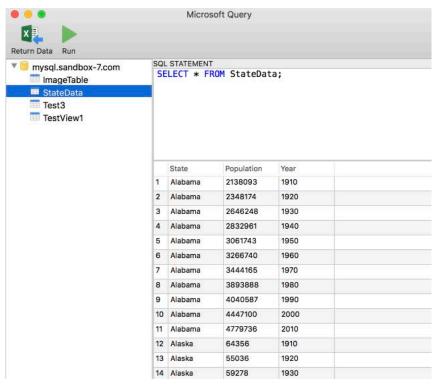
4) Select the database connection you would like to use.



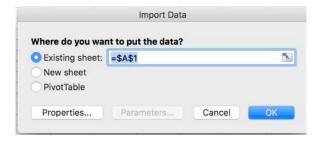
5) Next the Microsoft Query dialog will open asking you to select the table you want to import. As you select tables an SQL statement will be created to import the table you requested.



6) Once you have selected the table click the "Run" button and the SQL Query will run showing you what will be imported. If the data looks correct click the "Return Data" button.



7) Next the Import Data dialog will open. Click on either "Existing Sheet" or "New Sheet" depending on where you want your data to be returned.



8) The table should now successfully imported into your spread sheet.

A	1 *	× ✓ fx		
	Α	В	С	
ı	State 💌	Population 💌 Ye	ear 🔽	
2	Alabama	2138093	1910	
3	Alabama	2348174	1920	
4	Alabama	2646248	1930	
5	Alabama	2832961	1940	
6	Alabama	3061743	1950	
7	Alabama	3266740	1960	
8	Alabama	3444165	1970	
9	Alabama	3893888	1980	
10	Alabama	4040587	1990	
11	Alabama	4447100	2000	
12	Alabama	4779736	2010	
13	Alaska	64356	1910	
14	Alaska	55036	1920	
15	Alaska	59278	1930	
16	Alaska	72524	1940	
17	Alaska	128643	1950	
18	Alaska	226167	1960	
19	Alaska	300382	1970	
20	Alaska	401851	1980	
21	Alaska	550043	1990	
22	Alaska	626932	2000	
23	Alaska	710231	2010	
24	Arizona	204354	1910	
25	Arizona	334162	1920	
26	Arizona	435573	1930	
27	Arizona	499261	1940	
28	Arizona	749587	1950	
29	Arizona	1302161	1960	
30	Arizona	1770900	1970	
31	Arizona	2718215	1980	
32	Arizona	3665228	1990	
33	Arizona	5130632	2000	
34	Arizona	6392017	2010	
35	Arkansas	1574449	1910	
36	Arkansas	1752204	1920	
37	Arkansas	1854482	1930	
8	Arkansas	1949387	1940	
9	Arkansas	1909511	1950	
1	ra Kaliada	1505511	1550	