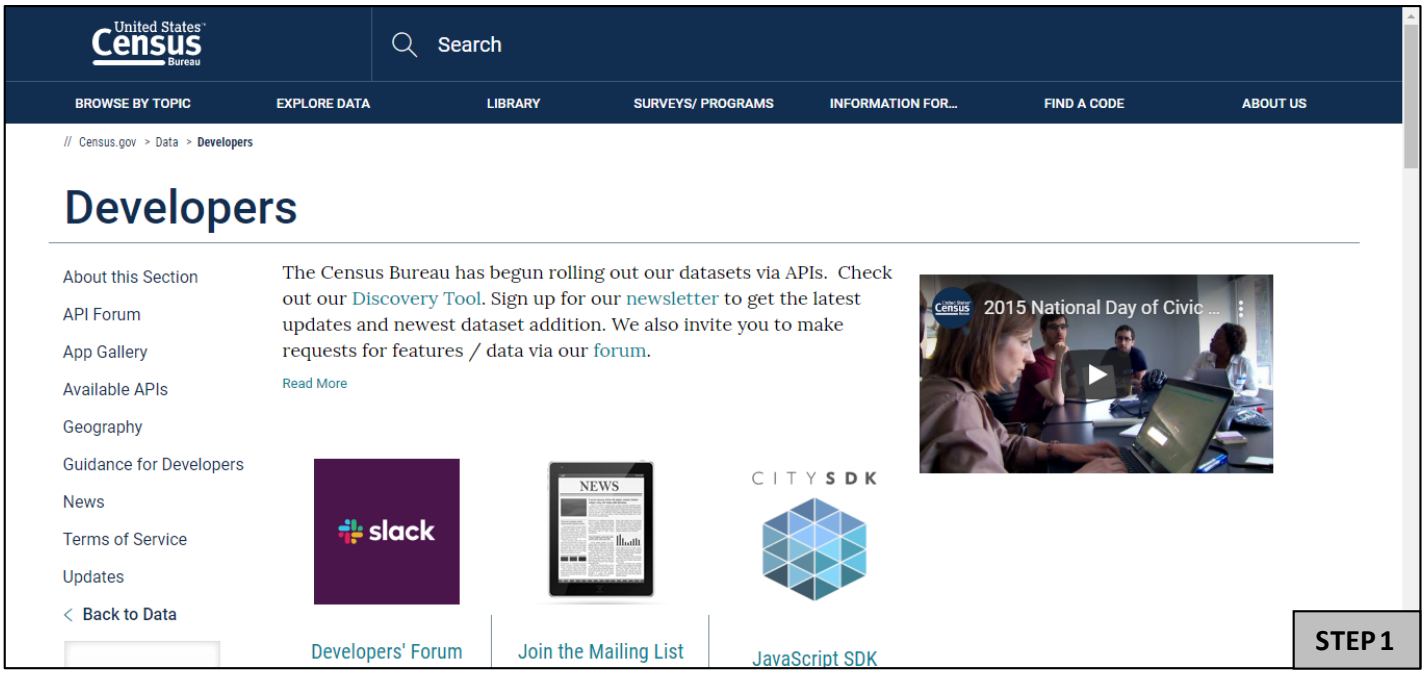
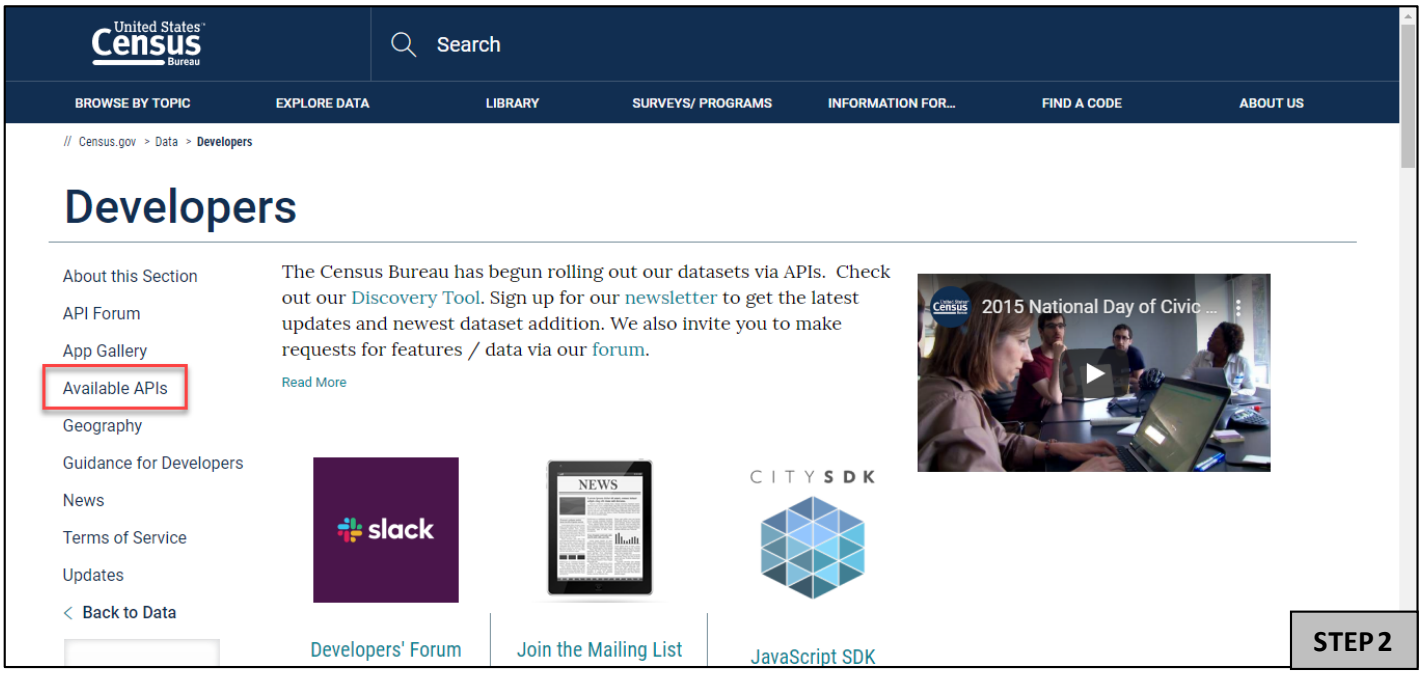
Instruction for Downloading Data from the Census Data API:
Decennial Census Self-Response Rates (2020) for All Counties in Florida

Follow these steps for building an API call (or a URL) for pulling data from the Decennial Census Self-Response Rates (2020) for All Counties in Florida.

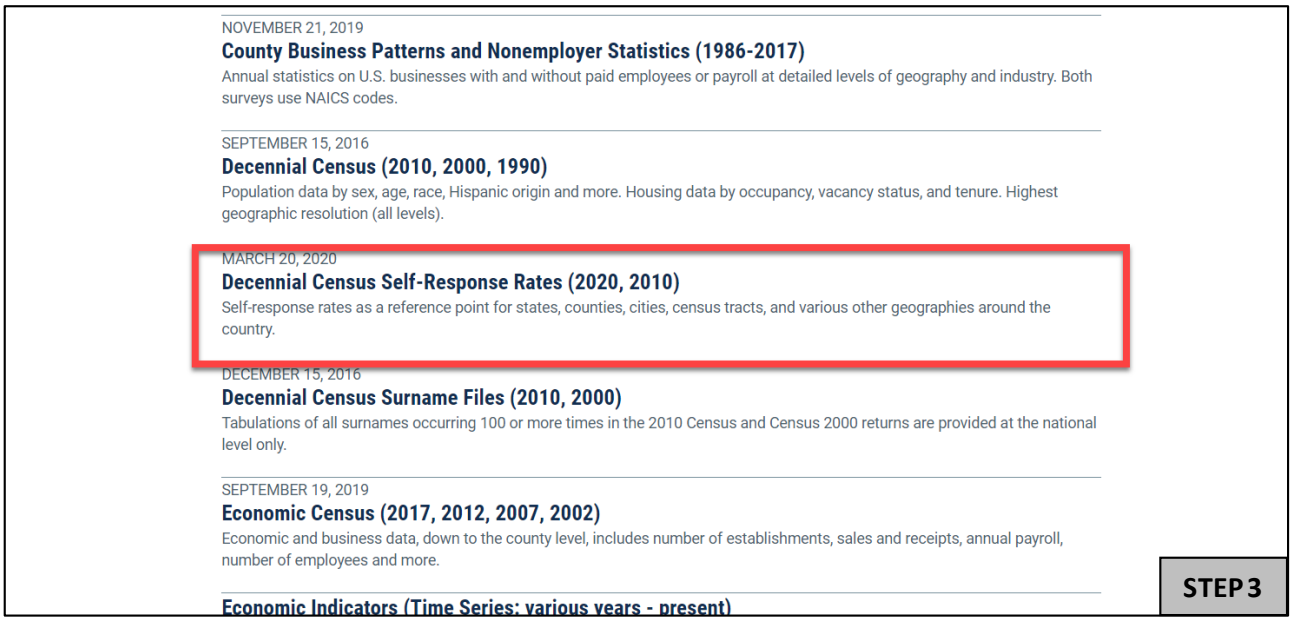
Step 1: Using Chrome web browser, go to the census.gov Developers Page at: https://www.census.gov/developers/.



Step 2. On the left side of the screen, click on "Available APIs".

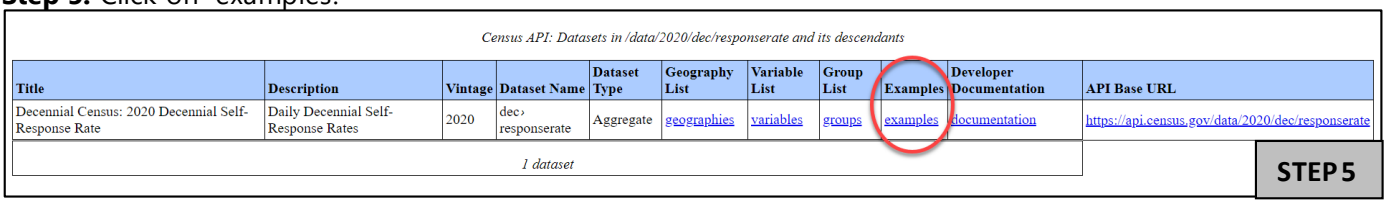


Step 3: Scroll down the page and click on Decennial Census Self-Response Rates (2020, 2010).



Step 4. Scroll down until you see "Decennial Self-Response Rates 2010." Click on api.census.gov/data/2020/dec/responserate.html

Step 5. Click on "examples."



Step 6. Under state› county. Copy/paste the URL into Firefox or Chrome if you are not already using these web browsers.

https://api.census.gov/data/2020/dec/responserate?get=DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=county:*&in=state:*&key=YOUR_KEY_GOES_HERE

We are going to use this URL to build an API call for decennial census self-response rates (2020) for all counties in Florida.

Census API: Examples for /data/2020/dec/responserate

Geography Hierarchy	Geography Level	Example URL
(default geography)	*N/A*	https://api.census.gov/data/2020/dec/responserate?get=DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&key=YOUR_KEY_GOES_HERE
us	010	https://api.census.gov/data/2020/dec/responserate?get=DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=us:*&key=YOUR_KEY_GOES_HERE
		https://api.census.gov/data/2020/dec/responserate?get=DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=us:1&key=YOUR_KEY_GOES_HERE
region	020	https://api.census.gov/data/2020/dec/responserate?get=DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=region:*&key=YOUR_KEY_GOES_HERE
		https://api.census.gov/data/2020/dec/responserate?get=DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=region:1&key=YOUR_KEY_GOES_HERE
state	040	https://api.census.gov/data/2020/dec/responserate?get=DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=state:*&key=YOUR_KEY_GOES_HERE
		https://api.census.gov/data/2020/dec/responserate?get=DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=state:01&key=YOUR_KEY_GOES_HERE
state› county	050	https://api.census.gov/data/2020/dec/responserate?get=DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=county:*&key=YOUR_KEY_GOES_HERE
		https://api.census.gov/data/2020/dec/responserate?get=DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=county:*&in=state:*&key=YOUR_KEY_GOES_HERE
		https://api.census.gov/data/2020/dec/responserate?get=DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=county:003&in=state:01&key=YOUR_KEY_GOES_HERE
state› county› county subdivision	060	https://api.census.gov/data/2020/dec/responserate?get=DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=county%20subdivision:*&in=state:09&key=YOUR_KEY_GOES_HERE
		https://api.census.gov/data/2020/dec/responserate?get=DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=county%20subdivision:*&in=state:09&in=county:*&key=YOUR_KEY_GOES_
		https://api.census.gov/data/2020/dec/responserate?get=DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=county%20subdivision:04720&in=state:09%20county:001&key=YOUR_KEY_G
state› county› tract	140	https://api.census.gov/data/2020/dec/responserate?get=DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=tract:*&in=state:01&key=YOUR_KEY_GOES_HERE
		https://api.census.gov/data/2020/dec/responserate?get=DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=tract:*&in=state:01&in=county:*&key=YOUR_KEY_GOES_HERE
		https://api.census.gov/data/2020/dec/responserate?get=DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=tract:020801&in=state:01%20county:001&key=YOUR_KEY_GOES_HERE
state› place	160	https://api.census.gov/data/2020/dec/responserate?get=DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=place:*&key=YOUR_KEY_GOES_HERE
		https://api.census.gov/data/2020/dec/responserate?get=DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=place:*&in=state:*&key=YOUR_KEY_GOES_HERE
		https://api.census.gov/data/2020/dec/responserate?get=DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=place:03250&in=state:20&key=YOUR_KEY_GOES_HERE
state› consolidated city	170	https://api.census.gov/data/2020/dec/responserate?get=DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=consolidated%20city:*&in=state:21&key=YOUR_KEY_GOES_HERE
		https://api.census.gov/data/2020/dec/responserate?get=DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=consolidated%20city:48003&in=state:21&key=YOUR_KEY_

STEP 6

Step 7. There are three parts of the URL that you will need to change:

a) First, add the geographic area name, NAME, to the URL.
At the **(?get=)** portion of the URL add "**NAME,**" Adding NAME will give us the labels associated with the geographies instead of only the geographic code.

https://api.census.gov/data/2020/dec/responserate?get=NAME,DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=county:*&in=state:*&key=YOUR_KEY_GOES_HERE

b) Since we want to build a URL for the all counties in Florida, change the (**=state:***) to (**=state:12**).

https://api.census.gov/data/2020/dec/responserate?get=NAME,DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=county:*&in=state:12&key=YOUR_KEY_GOES_HERE

c) Last, delete the portion of the URL, **&key=YOUR_KEY_GOES_HERE**.

https://api.census.gov/data/2020/dec/responserate?get=NAME,DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=county:*&in=state:12

Step 8: After making these adjustments to the URL, the final query is:
https://api.census.gov/data/2020/dec/responserate?get=NAME,DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=county:*&in=state:12

Hit the Enter key to pull the results. The results are in json format. Below are the first few lines.

```
[["NAME","DRRALL","CRRINT","RESP_DATE","CRRALL","GEO_ID","DRRINT","state","county"],
["Alachua County, Florida","2.5","16.5","2020-03-22","17.6","0500000US12001","2.2","12","001"],
["Baker County, Florida","3.8","7.2","2020-03-22","22.1","0500000US12003","0.7","12","003"],
["Bay County, Florida","2.1","9.7","2020-03-22","11.3","0500000US12005","1.8","12","005"],
["Bradford County, Florida","3.9","6.4","2020-03-22","21.6","0500000US12007","0.6","12","007"],
["Brevard County, Florida","3.9","14.7","2020-03-22","18","0500000US12009","3.3","12","009"],
["Broward County, Florida","2.3","15","2020-03-22","17.9","0500000US12011","1.7","12","011"],
["Calhoun County, Florida","2.7","4.5","2020-03-22","16.8","0500000US12013","0.3","12","013"],
["Charlotte County, Florida","2.6","18.8","2020-03-22","26.1","0500000US12015","1.4","12","015"],
["Citrus County, Florida","4","14","2020-03-22","28.6","0500000US12017","1.4","12","017"],
["Clay County, Florida","2.7","18.1","2020-03-22","20.2","0500000US12019","2.3","12","019"],
["Collier County, Florida","1.7","16.5","2020-03-22","19.1","0500000US12021","1.3","12","021"],
["Columbia County, Florida","3.4","8.7","2020-03-22","17","0500000US12023","1.5","12","023"],
["DeSoto County, Florida","2.5","6.4","2020-03-22","18.9","0500000US12027","0.4","12","027"],
["Dixie County, Florida","2.1","2.6","2020-03-22","11.3","0500000US12029","0.2","12","029"],
["Duval County, Florida","3.7","12.2","2020-03-22","15","0500000US12031","2.9","12","031"],
["Escambia County, Florida","2.2","16.1","2020-03-22","19.5","0500000US12033","1.6","12","033"],
["Flagler County, Florida","4.9","14.6","2020-03-22","18.8","0500000US12035","4.1","12","035"],
["Franklin County, Florida","0.9","5.3","2020-03-22","7.6","0500000US12037","0.6","12","037"],
["Gadsden County, Florida","3.7","8.1","2020-03-22","16.4","0500000US12039","2","12","039"],
["Gilchrist County, Florida","3.5","8.1","2020-03-22","20.8","0500000US12041","0.8","12","041"],
["Glades County, Florida","1.9","3.4","2020-03-22","12.7","0500000US12043","0.3","12","043"],
["Gulf County, Florida","1.2","4.5","2020-03-22","8.8","0500000US12045","0.4","12","045"],
["Hamilton County, Florida","3.2","4.4","2020-03-22","16","0500000US12047","0.5","12","047
```

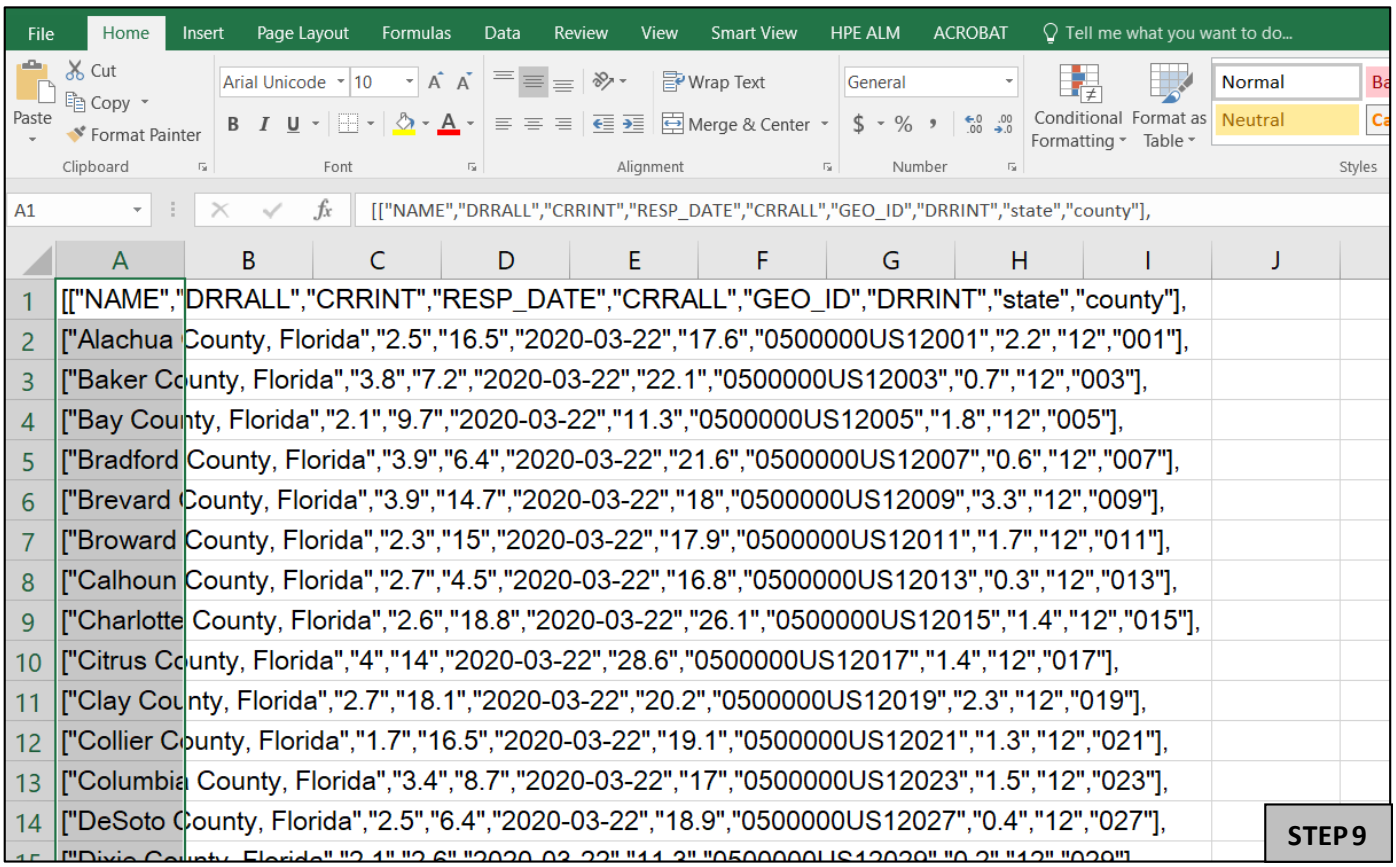

STEP 8

Step 9: Copy all of these results into MS Excel:

a) Press Ctrl-A to select all contents on the page

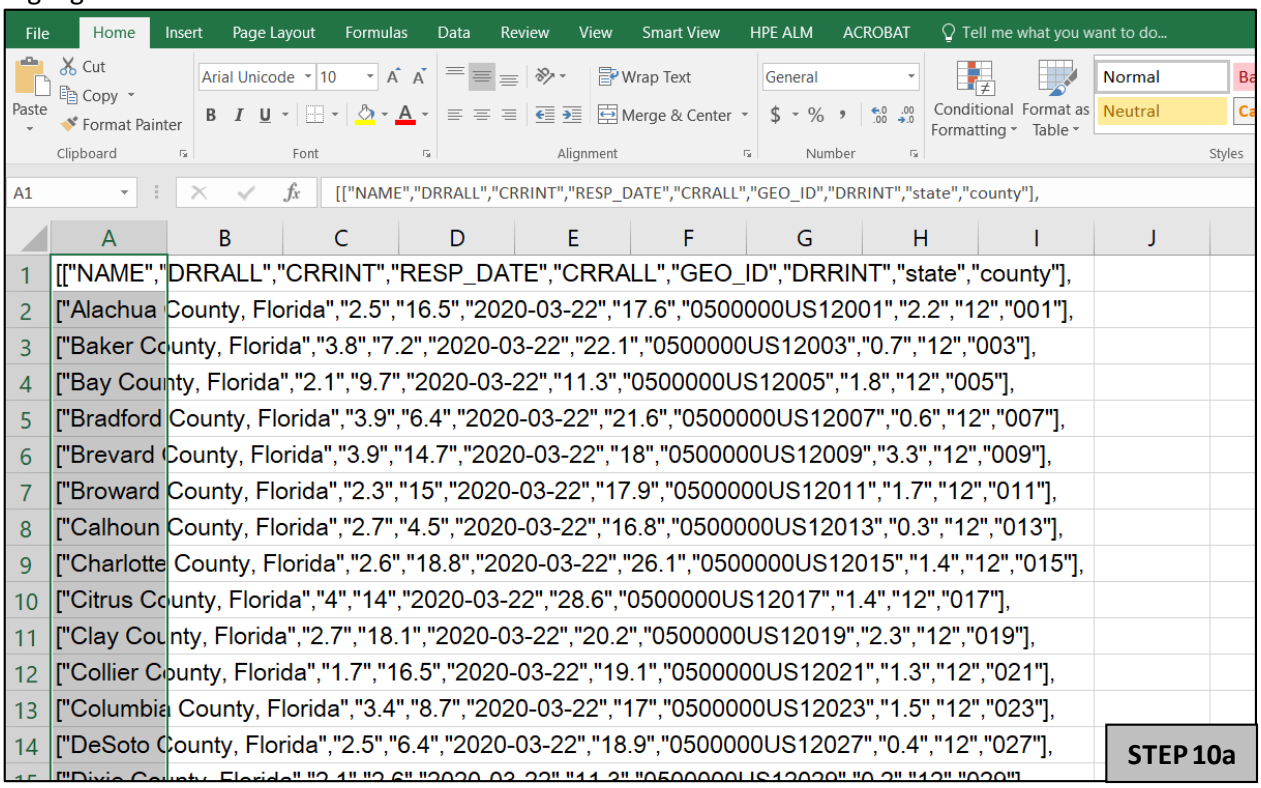
b) Press Ctrl-C to copy

c) Paste into the first cell of MS Excel (Ctrl-V)

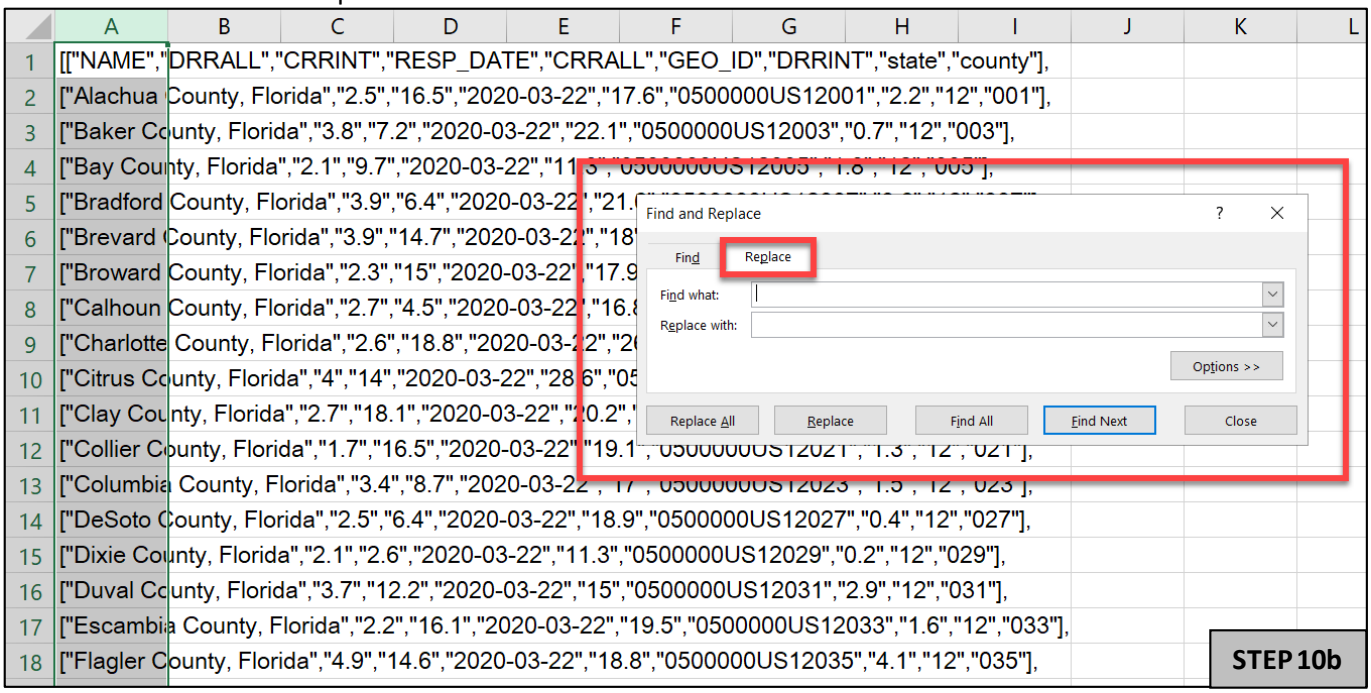


Step 10: Next, we need to format the results in Excel by removing the comma between County and Florida.

a) Highlight Column A in Excel.



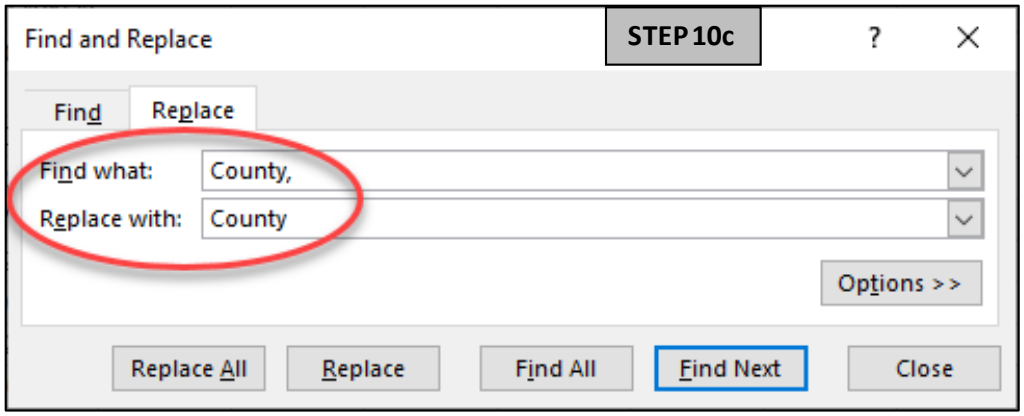
b) Press Ctrl- F and click the Replace Tab



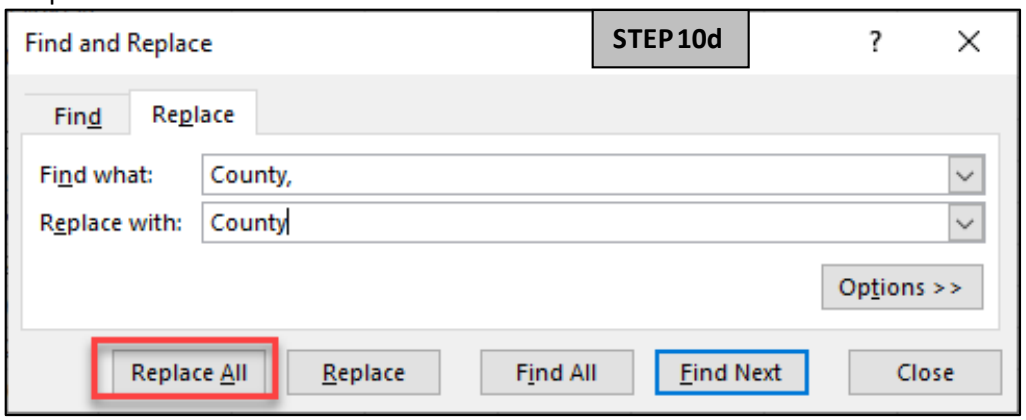
c) Enter the following:

a. Find what: County,

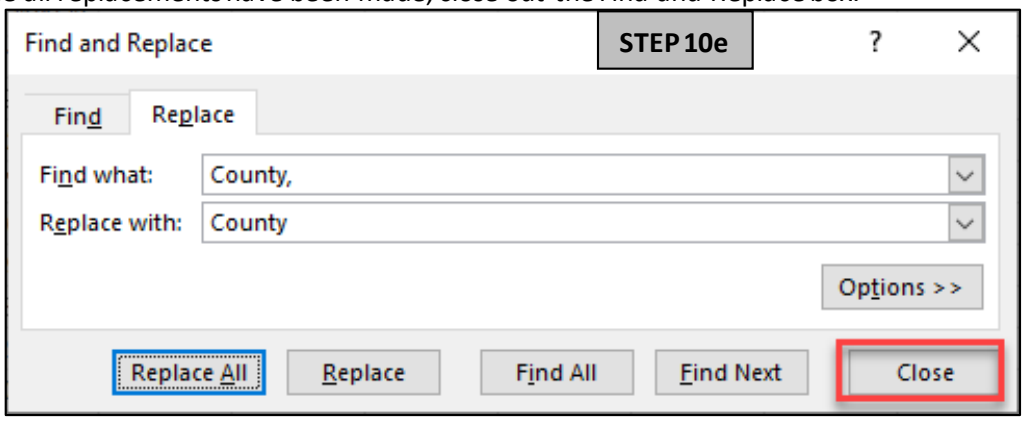
b. Replace: County



d) Click Replace All.



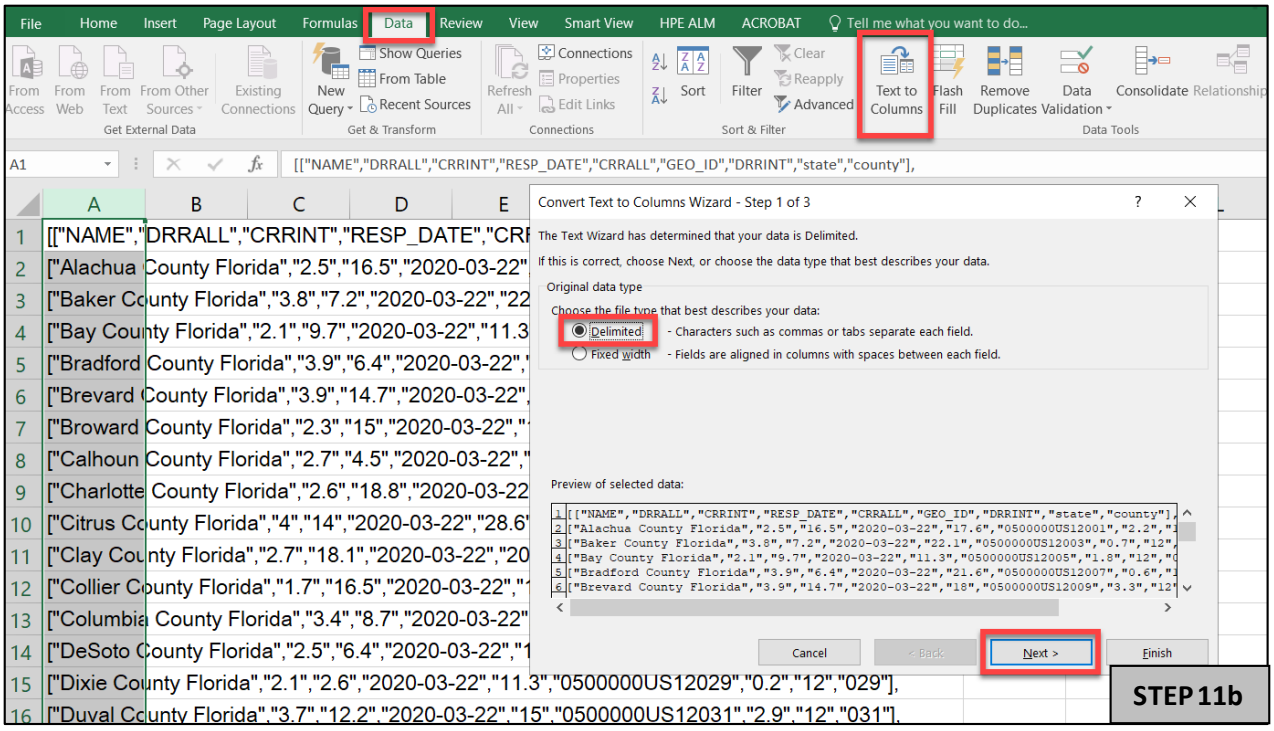
e) Once all replacements have been made, close out the Find and Replace box.



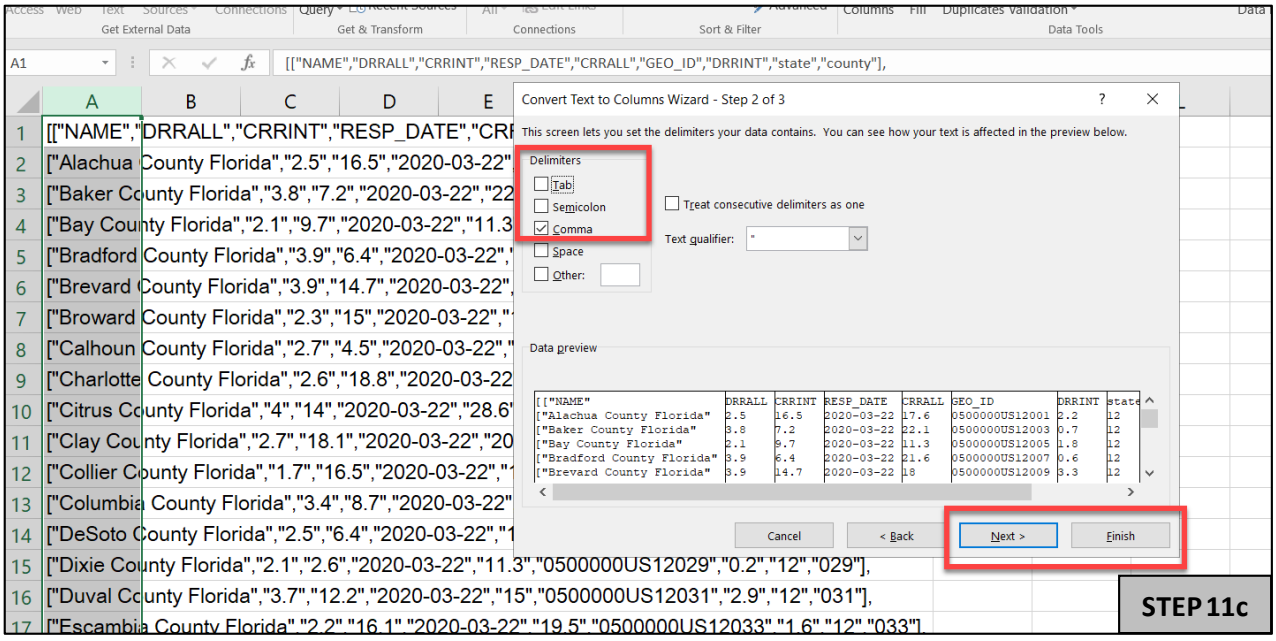
Step 11: Now convert the text to columns.

a) Highlight column A again.

b) Click Data -> Click Text to Columns -> Select Delimited -> Click Next.



c) Uncheck Tab and Check Comma -> Click Next -> Click Finish.



Now, we have our table, but we need to clean up the quotation marks and brackets.

	A	B	C	D	E	F	G	H	I
1	[["NAME"	DRRALL	CRRINT	RESP_DATE	CRRALL	GEO_ID	DRRINT	state	county]
2	["Alachua County Florida"	2.5	16.5	3/22/2020	17.6	0500000U	2.2	12	001]
3	["Baker County Florida"	3.8	7.2	3/22/2020	22.1	0500000U	0.7	12	003]
4	["Bay County Florida"	2.1	9.7	3/22/2020	11.3	0500000U	1.8	12	005]
5	["Bradford County Florida"	3.9	6.4	3/22/2020	21.6	0500000U	0.6	12	007]
6	["Brevard County Florida"	3.9	14.7	3/22/2020	18	0500000U	3.3	12	009]
7	["Broward County Florida"	2.3	15	3/22/2020	17.9	0500000U	1.7	12	011]
8	["Calhoun County Florida"	2.7	4.5	3/22/2020	16.8	0500000U	0.3	12	013]
9	["Charlotte County Florida"	2.6	18.8	3/22/2020	26.1	0500000U	1.4	12	015]
10	["Citrus County Florida"	4	14	3/22/2020	28.6	0500000U	1.4	12	017]
11	["Clay County Florida"	2.7	18.1	3/22/2020	20.2	0500000U	2.3	12	019]
12	["Collier County Florida"	1.7	16.5	3/22/2020	19.1	0500000U	1.3	12	021]
13	["Columbia County Florida"	3.4	8.7	3/22/2020	17	0500000U	1.5	12	023]
14	["DeSoto County Florida"	2.5	6.4	3/22/2020	18.9	0500000U	0.4	12	027]
15	["Dixie County Florida"	2.1	2.6	3/22/2020	11.3	0500000U	0.2	12	029]
16	["Duval County Florida"	3.7	12.2	3/22/2020	15	0500000U	2.9	12	031]
17	["Escambia County Florida"	2.2	16.1	3/22/2020	19.5	0500000U	1.6	12	033]
18	["Flagler County Florida"	4.9	14.6	3/22/2020	18.8	0500000U	4.1	12	035]

Step 12: To remove the quotation marks and brackets:

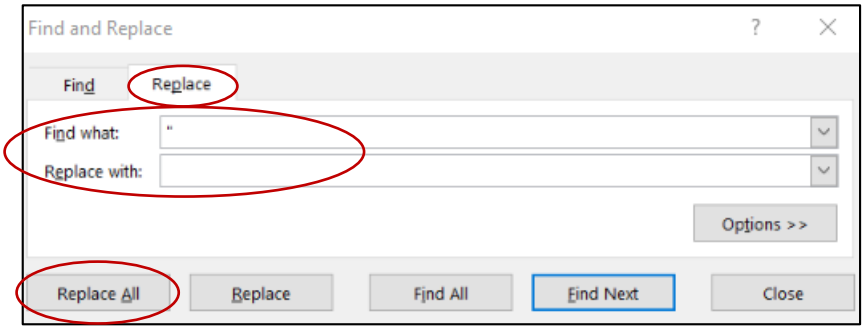
Quotation Marks

a) Press Ctrl- F and click the Replace tab.

b) Enter the following:

- Find what: "
- Replace: *(leave this blank)*

c) Click Replace All



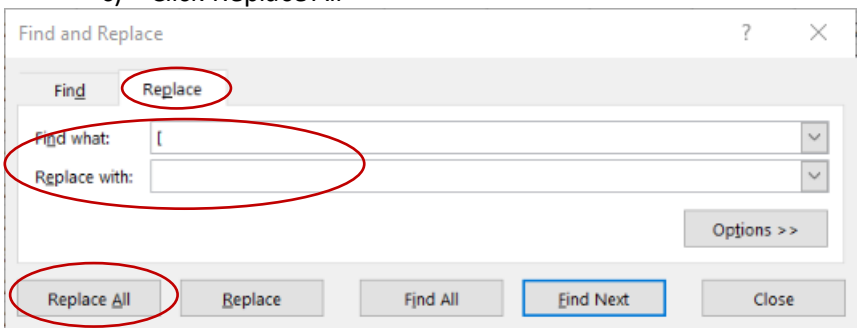
Left Brackets

a) Press Ctrl- F and click the Replace tab.

b) Enter the following:

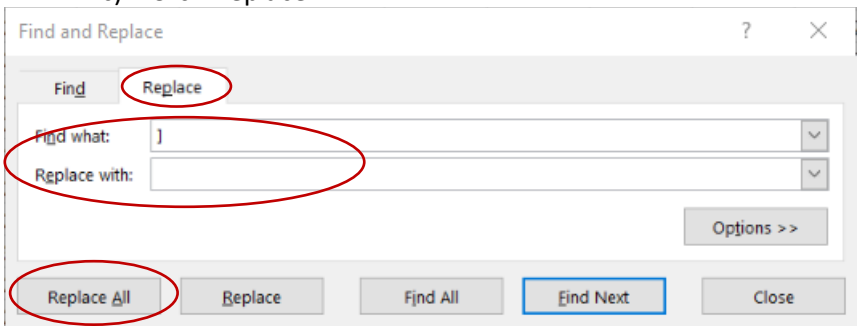
- Find what: [
- Replace: *(leave this blank)*

c) Click Replace All



Right Brackets

a) Press Ctrl- F and Click the Replace Tab
b) Enter the following
    - Find what:]
    - Replace: *(leave this blank)*
c) Click Replace All



Now, we have our table for all counties in Florida.

	A	B	C	D	E	F	G	H	I
1	NAME	DRRALL	CRRINT	RESP_DATE	CRRALL	GEO_ID	DRRINT	state	county
2	Alachua County Florida	2.5	16.5	3/22/2020	17.6	0500000US12001	2.2	12	1
3	Baker County Florida	3.8	7.2	3/22/2020	22.1	0500000US12003	0.7	12	3
4	Bay County Florida	2.1	9.7	3/22/2020	11.3	0500000US12005	1.8	12	5
5	Bradford County Florida	3.9	6.4	3/22/2020	21.6	0500000US12007	0.6	12	7
6	Brevard County Florida	3.9	14.7	3/22/2020	18	0500000US12009	3.3	12	9
7	Broward County Florida	2.3	15	3/22/2020	17.9	0500000US12011	1.7	12	11
8	Calhoun County Florida	2.7	4.5	3/22/2020	16.8	0500000US12013	0.3	12	13
9	Charlotte County Florida	2.6	18.8	3/22/2020	26.1	0500000US12015	1.4	12	15
10	Citrus County Florida	4	14	3/22/2020	28.6	0500000US12017	1.4	12	17
11	Clay County Florida	2.7	18.1	3/22/2020	20.2	0500000US12019	2.3	12	19
12	Collier County Florida	1.7	16.5	3/22/2020	19.1	0500000US12021	1.3	12	21
13	Columbia County Florida	3.4	8.7	3/22/2020	17	0500000US12023	1.5	12	23
14	DeSoto County Florida	2.5	6.4	3/22/2020	18.9	0500000US12027	0.4	12	27
15	Dixie County Florida	2.1	2.6	3/22/2020	11.3	0500000US12029	0.2	12	29
16	Duval County Florida	3.7	12.2	3/22/2020	15	0500000US12031	2.9	12	31
17	Escambia County Florida	2.2	16.1	3/22/2020	19.5	0500000US12033	1.6	12	33
18	Flagler County Florida	4.9	14.6	3/22/2020	18.8	0500000US12035	4.1	12	35
19	Franklin County Florida	0.9	5.3	3/22/2020	7.6	0500000US12037	0.6	12	37
20	Gadsden County Florida	3.7	8.1	3/22/2020	16.4	0500000US12039	2	12	39
21	Gilchrist County Florida	3.5	8.1	3/22/2020	20.8	0500000US12041	0.8	12	41
22	Glades County Florida	1.9	3.4	3/22/2020	12.7	0500000US12043	0.3	12	43
23	Gulf County Florida	1.2	4.5	3/22/2020	8.8	0500000US12045	0.4	12	45