

Fast Food – ETL Project

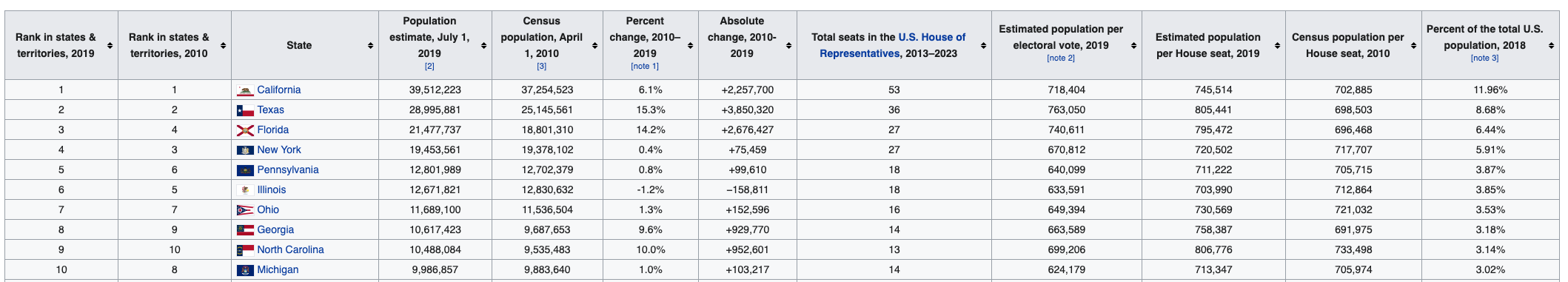
Project Team – Kristi McGrath, Todd Auman, Bobby Huffstetler

**Project Objective – Applied ETL to Population Data and Fast Food Restaurants.**

**Data Source:**

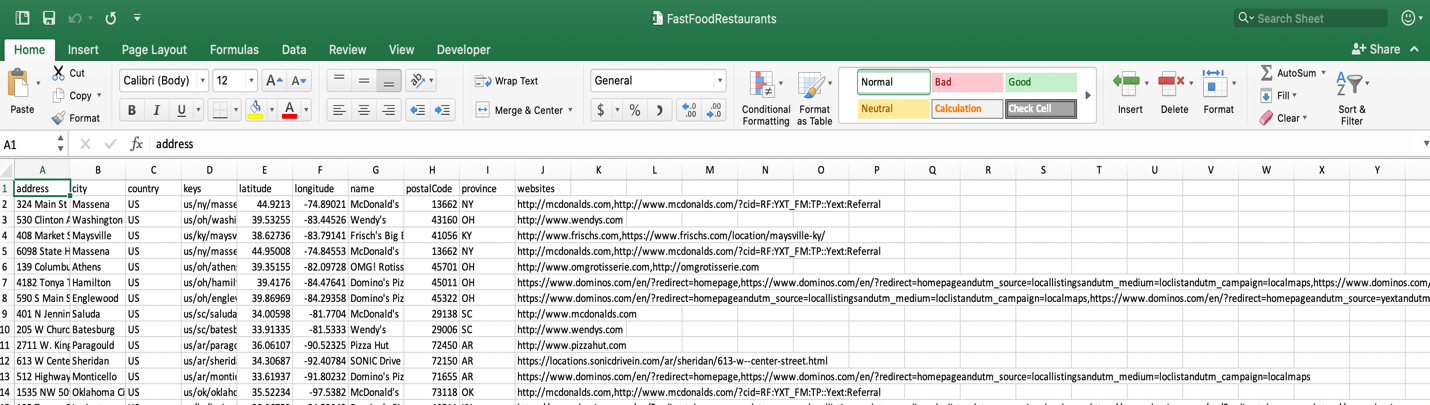
Wikipedia. This data table was scraped and transformed into a Pandas Dataframe.

[Population](https://simple.wikipedia.org/wiki/List_of_U.S._states_by_population)



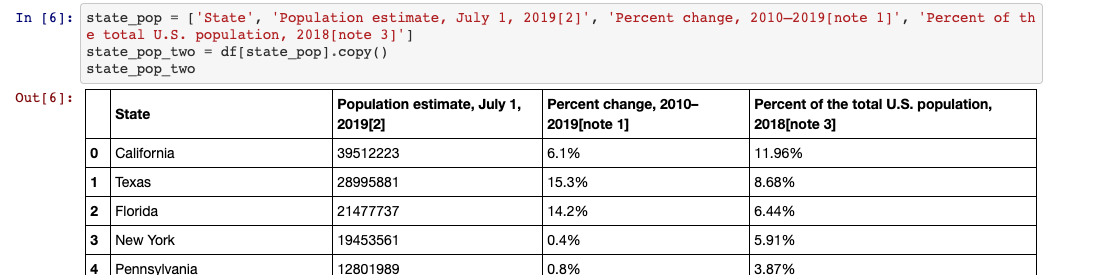
Kaggle.com. This CSV file was downloaded for our Fast Food Data Set.

[Fast Food Restaurants](https://www.kaggle.com/datafiniti/fast-food-restaurants)

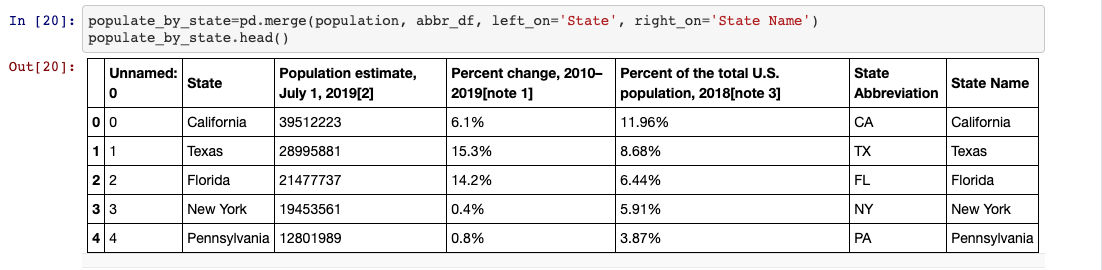
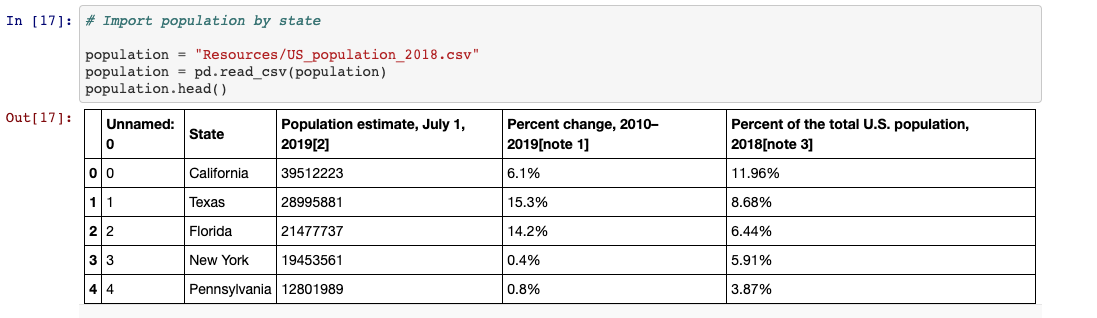


**Extract and Transform:**

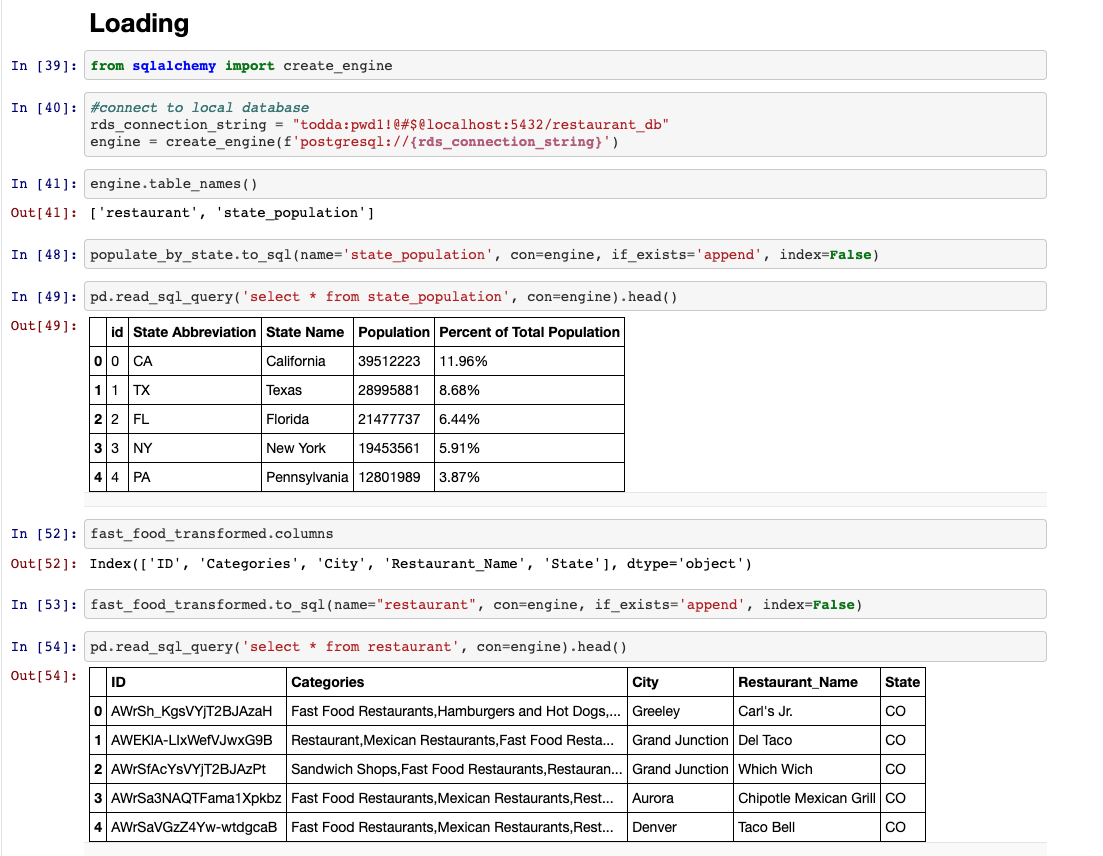
Population Data from Wikipedia was grouped by state



Merged Population Data into Fast Food Notebook



Successful merge and create sql\_query



Create SQL DB & Tables

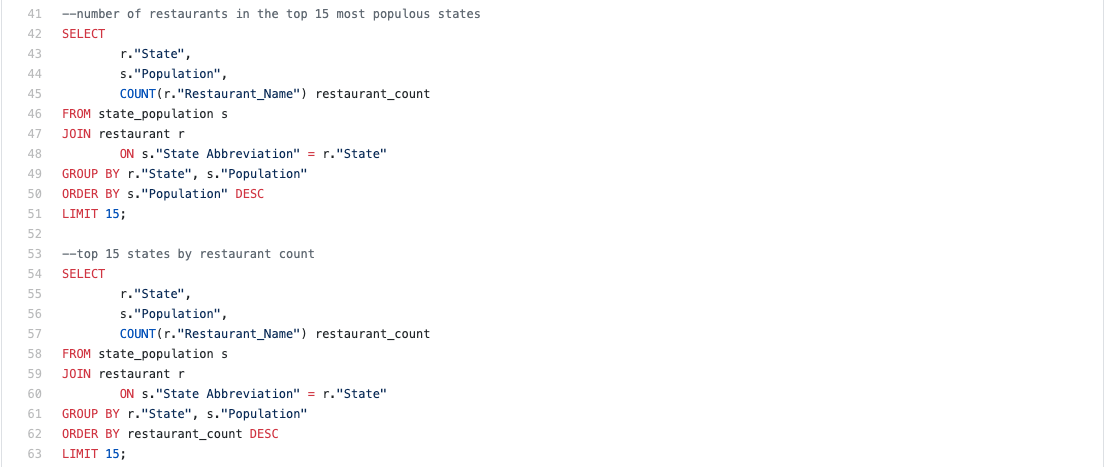
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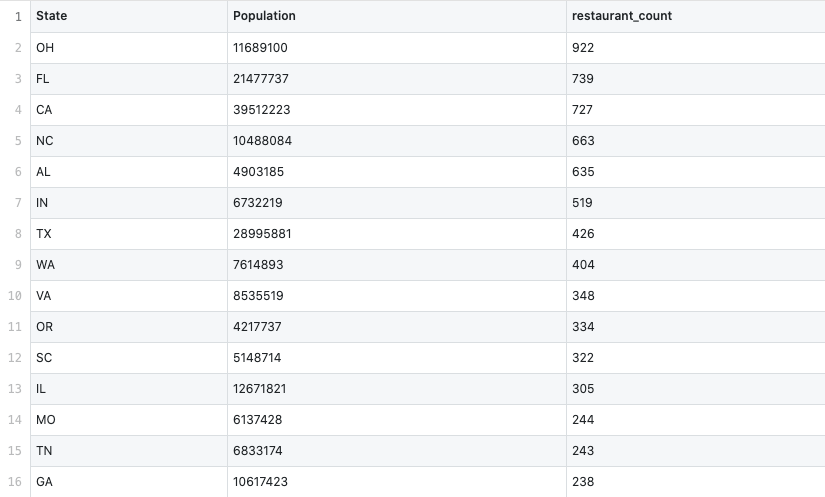


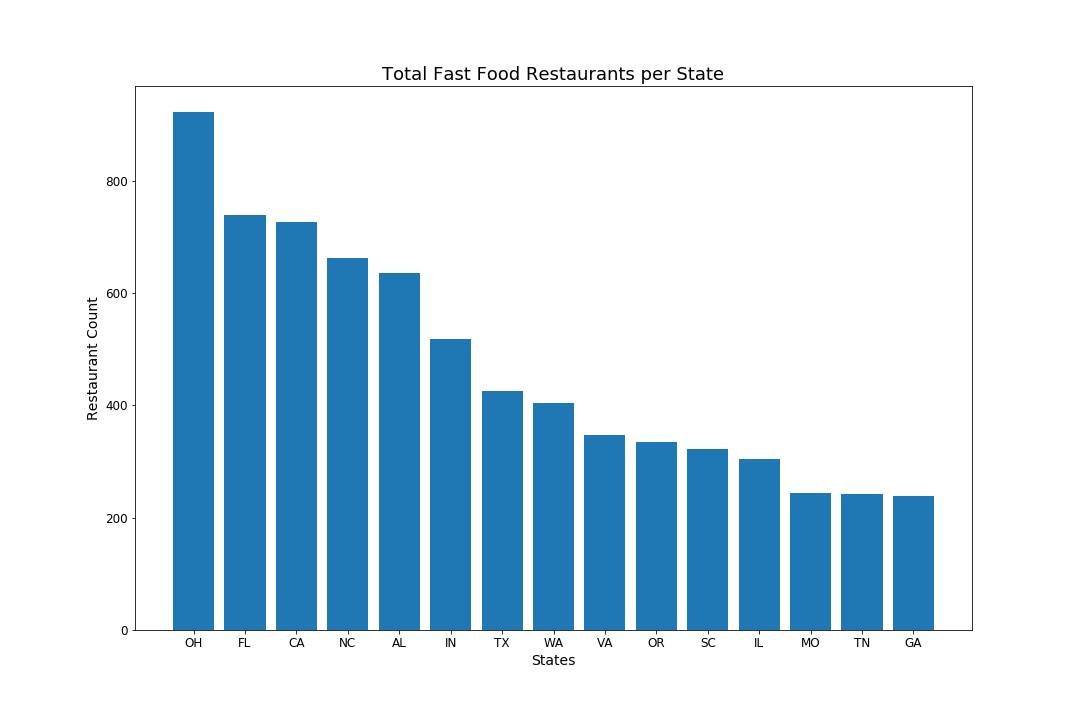
Joined restaurant count with populations and states



Merged and loaded number of fast food restaurants into the top 15 most populous states

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**Outcome**



**Observations**

Ohio ranks 7th in state population but has the highest number of fast food restaurants 922.

California ranks 1st in state population and has 727 fast food restaurants.

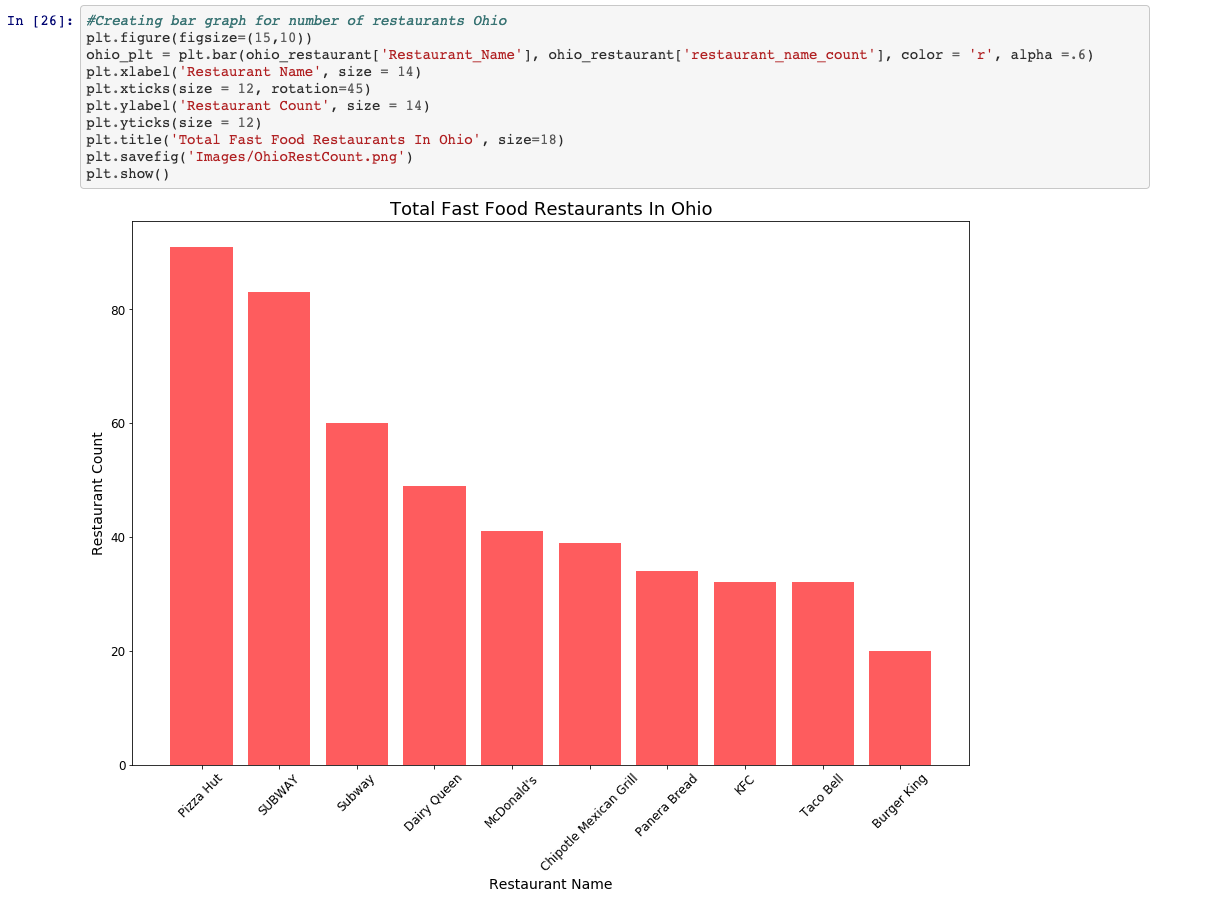
New York ranks 4th in state population has the lowest number of fast food restaurants 173.

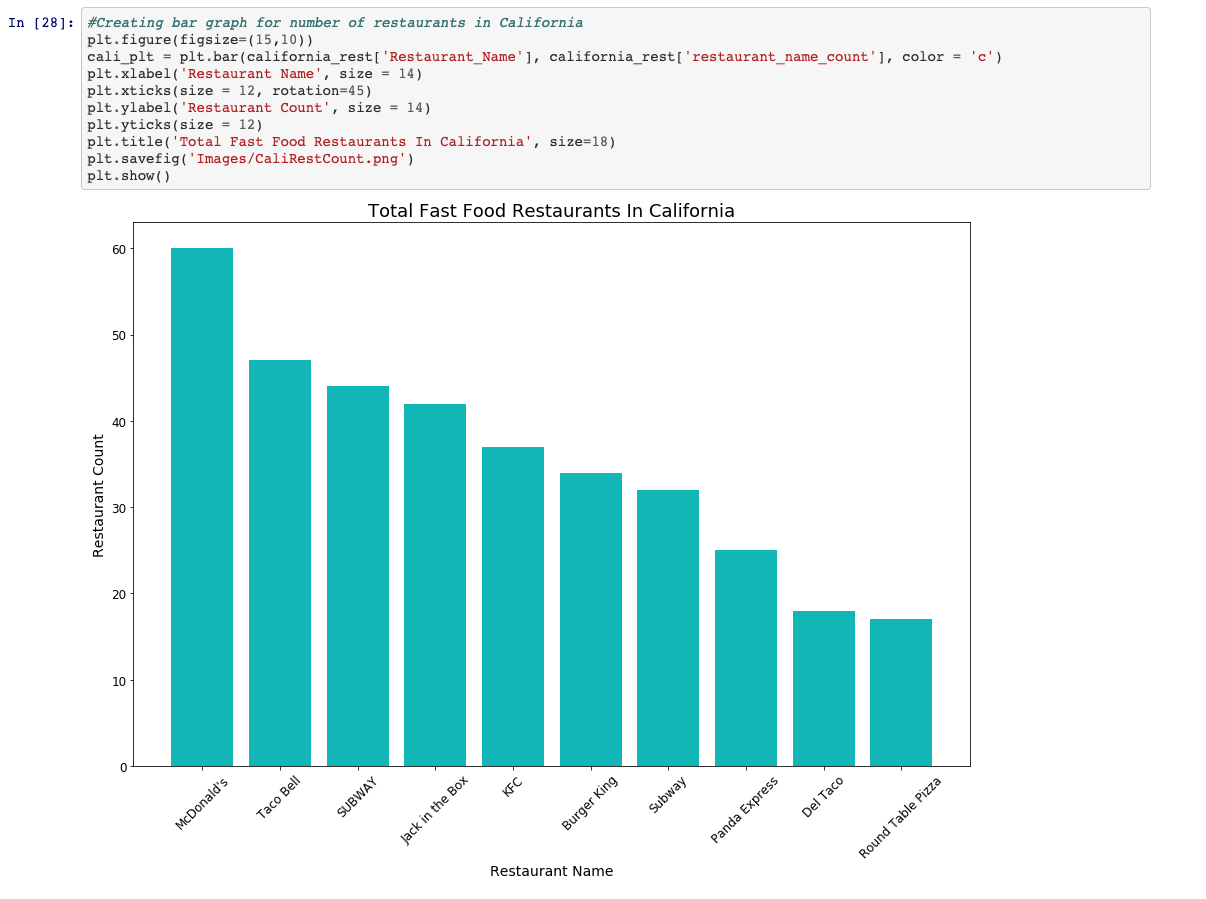
* New Jersey & Virginia had erroneous data for restaurant count

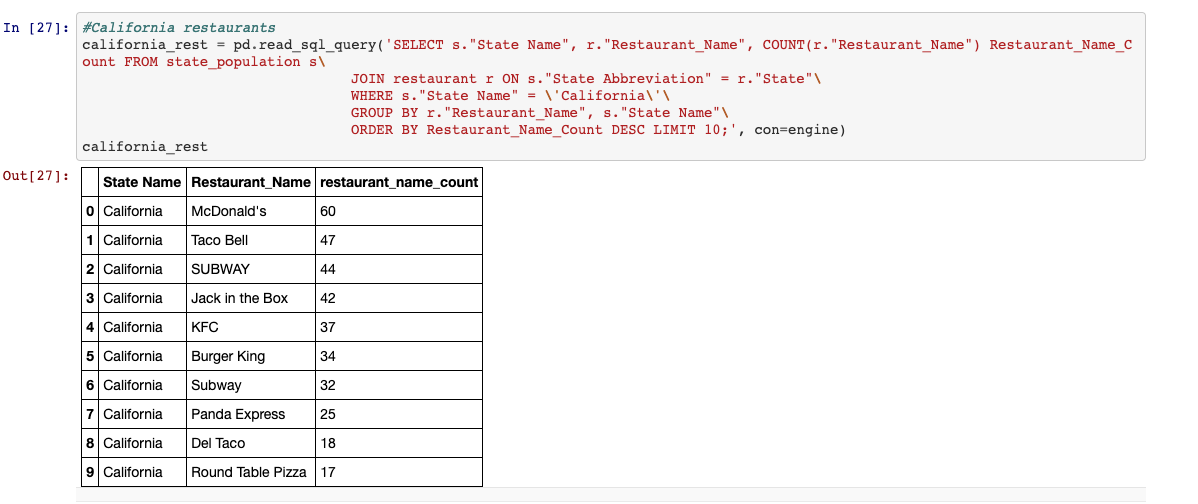
We concluded that population size has little to do with the number of restaurants in the top 15 list.

**Extra Bites**

Once we concluded our research and data merge, we thought it would be interesting to breakdown the top 10 restaurants in the state of Ohio, since they have the most of any state.

****We can see the Buckeye State truly enjoys pizza.

In our data set, California has the largest population. We were curious as to what their top 10 fast food restaurants were.

The Golden State is Lovin’ It. McDonald’s holds the top spot.