Capstone Project: The Battle of Neighborhoods

MOVING TO ATLANTA, GEORGIA. ANALYSIS OF THE JOURNEY.

Data Section:

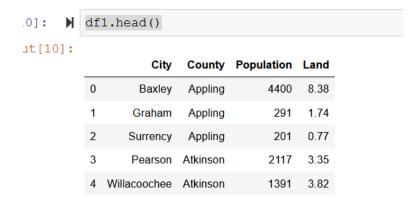
The following data was considered in the analysis:

1.- Cities and Counties Data:

I found the list of Cities and Counties from Wikipedia : https://en.wikipedia.org/wiki/List_of_municipalities_in_Georgia_(U.S._state) .I will scrapped the data from the wiki, then cleaned and reduced to be applied creating choropleth map .

Nama	▼ Type[1]	County ^[1] ◆	Population +	Population (2000) ^[1]	Change (%)	Land area (2010) ^[1]		Demolecien demoite.
Name	◆ Type ^[1]		(2010) ^[1]			sq mi ¢	km² ♦	Population density
Abbeville †	City	Wilcox	2,908	2,298	Sort ascending +26.5%	3.06	7.9	950.3/sq mi (366.9/km²)
Acworth	City	Cobb	20,425	13,422	+52.2%	8.24	21.3	2,478.8/sq mi (957.1/km ²)
Adairsville	City	Bartow	4,648	2,542	+82.8%	9.11	23.6	510.2/sq mi (197.0/km ²)
Adel †	City	Cook	5,334	5,307	+0.5%	8.06	20.9	661.8/sq mi (255.5/km²)
Adrian	City	Emanuel, Johnson	664	579	+14.7%	1.37	3.5	484.7/sq mi (187.1/km²)
Ailey	City	Montgomery	432	394	+9.6%	2.01	5.2	214.9/sq mi (83.0/km ²

In this case it is just an example of the result of the dataset that will be reduced.

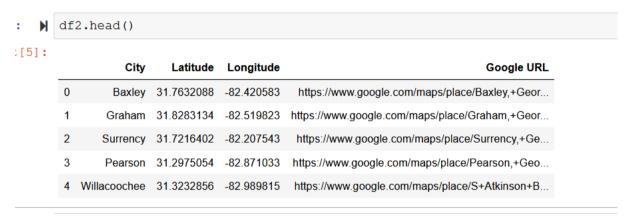


2.- Coordinates for Georgia Cities:

I created own table with Coordinates (Latitude and Longitude) using Google Maps. That info will be merged with data from Cities and Counties. [2]

In this case, since the Geocoder is not allowing to retrieve information related coordinates, we will create extract coordinates directly using Google Map.

The following example will show how will be the dataset to use.



3.- Foursquare API Data:

We will use "Foursquare API" to extract data from the most common venues of each city in Atlanta. It will help us to provide the options in the comparative analysis.

[3]

In this case we will use the credentials already created to consume the venues.

Below an example of the credentials to be used:

Define Foursquare Credentials and Version

```
CLIENT_ID = 'GGC3KOAGIOAZI2UUM1NGQBNQPSNJ44RREQYWHTJ00FANW443' # your Foursquare ID

CLIENT_SECRET = '2TGU23WQQKEITSG1011ZFXSG0DENDH5QCORZCXBFUMOVRRLC' # your Foursquare Secret

VERSION = '20180605' # Foursquare API version

print('Your credentails:')

print('CLIENT_ID: ' + CLIENT_ID)

print('CLIENT_SECRET:' + CLIENT_SECRET)

Your credentails:

CLIENT_ID: GGC3KOAGIOAZI2UUM1NGQBNQPSNJ44RREQYWHTJ00FANW443

CLIENT_SECRET:2TGU23WQQKEITSG1011ZFXSG0DENDH5QCORZCXBFUMOVRRLC
```

4.-School, Colleges, University ranking and price of house rental Data

I will create own tables for School, Colleges, University Ranking extracting from different websites It will help us to provide ranking analysis. [4]

There are not too many public datas related to Education and rental prices of apartments. Therefore I will create own tables to collect that information for our analysis.

Here an example of the data.

d 1	df3.head()						
:	School	City	Average Standard Score (2019)	Rank (2018)			
0	Allatoona High School	Cobb County	80.5	33.0			
1	Alpharetta High School	Fulton County	87.8	19.0			
2	Arabia Mountain High School - Academy of Engin	DeKalb County	64.0	87.0			
3	Archer High School	Gwinnett County	72.7	46.0			
4	Bleckley County High School	Bleckley County	71.1	50.0			

: ► df4.head() t[7]:

	City	Average Rent October
0	Acworth, GA	\$1,121
1	Alpharetta, GA	\$1,488
2	Atlanta, GA	\$1,475
3	Augusta, GA	\$850
4	Austell, GA	\$1,027

df5.head()

8]:

	University	City	University.1	Rank
0	Georgia Institute of Technology	Atlanta	Georgia Institute of Technology	1
1	Georgia State University	Atlanta	Georgia State University	2
2	University of Georgia	Athens	University of Georgia	3
3	Emory University	Atlanta	Emory University	4
4	Kennesaw State University	Kennesaw	Kennesaw State University	5

References:

- [1] Georgia Wikipedia : https://en.wikipedia.org/wiki/Georgia_(U.S._state)
- [2] Google Map : https://www.google.com/maps
- [3] Forsquare API : https://developer.foursquare.com/
- [4] Schools, University, Rental Houses websites:
 - https://www.schooldigger.com/go/GA/schoolrank.aspx?level=3#
 - https://www.rentcafe.com/blog/rental-market/local-rent-reports/georgia-rent-report-october-2019/
 - https://www.4icu.org/us/georgia/