Following files need to be modified thru Pandas: After removing and renaming the columns, we should create a new csv files out

**/resources/Census\_2019\_MedianIncome.csv**

Drop columns:

Estimate Households Total Less than $10,000

Margin of Error Households Total Less than $10,000

Estimate Households Total $10,000 to $14,999

Margin of Error Households Total $10,000 to $14,999

Estimate Households Total $15,000 to $24,999

Margin of Error Households Total $15,000 to $24,999

Estimate Households Total $25,000 to $34,999

Margin of Error Households Total $25,000 to $34,999

Estimate Households Total $35,000 to $49,999

Margin of Error Households Total $35,000 to $49,999

Estimate Households Total $50,000 to $74,999

Margin of Error Households Total $50,000 to $74,999

Estimate Households Total $75,000 to $99,999

Margin of Error Households Total $75,000 to $99,999

Estimate Households Total $100,000 to $149,999

Margin of Error Households Total $100,000 to $149,999

Estimate Households Total $150,000 to $199,999

Margin of Error Households Total $150,000 to $199,999

Estimate Households Total $200,000 or more

Margin of Error Households Total $200,000 or more

Rename columns:

Zip Code to Zip\_Code

Total Households to Total\_Households

Margin of Error Households Total to Total\_Households\_Margin\_Error

Estimate Households Median income (dollars) to Median\_Households\_Estimate\_Income

Margin of Error Households Median income (dollars) to Median\_Households\_Margin\_Error

Estimate Households Mean income (dollars) to Mean\_Households\_Estimate\_Income

Margin of Error Households Mean income (dollars) to Mean\_Households\_Margin\_Error

**/resources/ORIG\_ZIP\_COUNTY\_FIPS\_201706**

remove/drop column CLASSFP

rename columns:

ZIP to Zip\_Code

COUNTYNAME to County\_Name

STATE to State\_Code

STCOUNTYFP to County\_Code

**/resources/ORIG\_ev\_stations\_v1**

Drop columns: (most of these are either empty or don't provide valuable info)

Fuel Type Code

Intersection Directions

Plus4

Station Phone

Expected Date

Groups With Access Code

Cards Accepted

BD Blends

NG Fill Type Code

NG PSI

EV Other Info

EV Network Web

Geocode Status

Date Last Confirmed

Updated At

Federal Agency ID

Federal Agency Name

Hydrogen Status Link

NG Vehicle Class

LPG Primary

E85 Blender Pump

EV Connector Types

Country Intersection Directions (French)

Access Days Time (French)

BD Blends (French)

Groups With Access Code (French)

Hydrogen Is Retail

Access Detail Code

Federal Agency Code

CNG Dispenser Num

CNG On-Site Renewable Source

CNG Total Compression Capacity

CNG Storage Capacity

LNG On-Site Renewable Source

E85 Other Ethanol Blends

EV Pricing (French)

LPG Nozzle Types

Hydrogen Pressures

Hydrogen Standards

CNG Fill Type Code

CNG PSI CNG Vehicle Class

LNG Vehicle Class

EV On-Site Renewable Source

Restricted Access

Rename the columns:

Station Name to Station\_Name

Street Address to Street\_Address

City to City

State to State\_Code

ZIP to Zip\_Code

Status Code to Status\_Code

Access Days Time to Access\_Days\_Time

EV Level1 EVSE Num to EV\_Level1\_EVSE\_Num

EV Level2 EVSE Num to EV\_Level2\_EVSE\_Num

EV DC Fast Count to EV\_DC\_Fast\_Count

EV Network to EV\_Network

Latitude to Latitude

Longitude to Longitude

ID to EV\_ID

Owner Type Code to Owner\_Type\_Code

Open Date to Open\_Date

Access Code to Access\_Code

Facility Type to Facility\_Type

EV Pricing to Charging\_Cost

**Transformation:**

Drop rows where status\_code = 'p'

Open Issues:

Some zip code has three digits, we probably either put nulls for them or drop these records