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In [1]:
         import pandas as pd
         import pandas.io.sql as psql
         import re
         import sqlite3
         import psycopg2
         from pandasql import sqldf
         from matplotlib import pyplot as plt
         from statsmodels.formula.api import ols
         from sqlalchemy import create_engine
         import pandas.io.sql as psql
         con = psycopg2.connect('postgresql://aqlxfqja:F6bE-fv-jhA_VaaLV284XVgxXOLNAp_2@rosie
         engine = create_engine('postgresql://aqlxfqja:F6bE-fv-jhA_VaaLV284XVgxXOLNAp_2@rosie
         plt.rcParams['figure.figsize'] = [10, 5]
In [2]:
         data = pd.read_csv('vehicles.csv')
In [3]:
         data = data.drop(columns = ['url','region_url', 'image_url', 'VIN', 'description','d
         data['id'] = data['id'].astype("str")
         data['posting_date'] = data['posting_date'].astype("str")
         posting_year = []
In [4]:
         for x in data['posting_date']:
             if len(re.findall('[\d,]+',x)) == 0:
                 posting_year.append(None)
             else:
                 posting_year.append(re.findall('[\d,]+',x)[0])
         data['posting_year'] = posting_year
         data['posting_year'] = data['posting_year'].astype("float64")
         data['years_old'] = data['posting_year'] - data['year']
In [5]:
         data.to_csv('cleaned_vehicles.csv',index = False)
In [1]:
         pd.read_csv("cleaned_vehicles.csv").to_sql('us_carsales_full', engine, index = False
        data.info()
In [ ]:
        %load_ext sql
In [ ]:
         # Make a copy of dataset
         %%sql postgresql://aqlxfqja:F6bE-fv-jhA_VaaLV284XVgxXOLNAp_2@rosie.db.elephantsql.co
         CREATE TABLE IF NOT EXISTS us_carsales_v1 AS
         (SELECT *
           FROM us_carsales_full)
         # Delete record where manufacturer/model/year is null
         %%sql postgresql://aqlxfqja:F6bE-fv-jhA VaaLV284XVgxXOLNAp 2@rosie.db.elephantsql.co
         DELETE
           FROM us carsales v1
         WHERE manufacturer IS NULL
             OR model IS NULL
             OR year IS NULL
         print("Data clean is done")
In [ ]:
```