import pandas as pd

import seaborn as sns

import matplotlib.pyplot as plt

df = pd.read\_csv('C:/Users/FARIS/Desktop/archive/US\_Accidents\_Dec20\_Updated.csv')

df.head()

print(df.columns)

numberOfAccidents = df[["ID", "State"]].groupby("State").count().sort\_values("ID", ascending=False)

numberOfAccidents

import warnings

warnings.simplefilter(action="ignore", category=FutureWarning)

sns.barplot(numberOfAccidents["ID"], numberOfAccidents.index)

sns.set(rc={"figure.figsize":(10, 8)})

x = numberOfAccidents["ID"]

y = numberOfAccidents.index

plt.figure(figsize=(15, 5))

display(plt.plot(y,x))

plt.xlabel('states')

plt.ylabel('Number of accidents')

plt.show()

plt.figure(figsize=(5,15))

# color for each label

#colors = ['r', 'y', 'g', 'b']

# plotting the pie chart

slide = [0.2, 0.2, 0.2, 0.2, 0.2,0,

0, 0, 0, 0,0, 0, 0, 0,

0,0, 0, 0, 0, 0,0, 0, 0,

0, 0,0, 0, 0, 0, 0,0, 0,

0, 0, 0,0, 0, 0, 0, 0,0, 0,

0, 0, 0,0, 0, 0, 0, ]

plt.pie(x, labels = y,startangle=5, shadow = True, radius = 1.9, autopct = '%1.1f%%', explode=slide)

# plotting legend

# showing the plot

plt.show()

df.State.value\_counts()[:10].plot(kind='pie')

plt.axis('equal')

plt.show()

#print("Total number of States in the dataset = "+str(len(df.State.unique())))

#print('From the above plotting it is clear that California(CA) has most number of accidents.')