import pandas as pd

def calculate\_demographic\_data(print\_data=True):

# Read data from file

df = pd.read\_csv('adult.data.csv')

race\_count = df['race'].value\_counts()

average\_age\_men = df[df['sex'] == 'Male']['age'].mean()

bachelor\_count = df[df['education'] == 'Bachelors'].shape[0]

percentage\_bachelors = (bachelor\_count / df.shape[0]) \* 100

higher\_education = df[df['education'].isin(['Bachelors', 'Masters', 'Doctorate'])]

higher\_education\_rich = higher\_education[higher\_education['salary'] == '>50K']

percentage\_higher\_education\_rich = (higher\_education\_rich.shape[0] / higher\_education.shape[0]) \* 100

lower\_education = df[~df['education'].isin(['Bachelors', 'Masters', 'Doctorate'])]

lower\_education\_rich = lower\_education[lower\_education['salary'] == '>50K']

percentage\_lower\_education\_rich = (lower\_education\_rich.shape[0] / lower\_education.shape[0]) \* 100

min\_work\_hours = df['hours-per-week'].min()

num\_min\_workers = df[df['hours-per-week'] == min\_work\_hours]

rich\_percentage = (num\_min\_workers[num\_min\_workers['salary'] == '>50K'].shape[0] / num\_min\_workers.shape[0]) \* 100

highest\_earning\_country = (df[df['salary'] == '>50K']['native-country'].value\_counts() / df['native-country'].value\_counts()).idxmax()

highest\_earning\_country\_percentage = (df[df['salary'] == '>50K']['native-country'].value\_counts() / df['native-country'].value\_counts()).max() \* 100

top\_IN\_occupation = df[(df['native-country'] == 'India') & (df['salary'] == '>50K')]['occupation'].value\_counts().index[0]

if print\_data:

print("Number of each race:\n", race\_count)

print("Average age of men:", round(average\_age\_men, 1))

print(f"Percentage with Bachelors degrees: {round(percentage\_bachelors, 1)}%")

print(f"Percentage with higher education that earn >50K: {round(percentage\_higher\_education\_rich, 1)}%")

print(f"Percentage without higher education that earn >50K: {round(percentage\_lower\_education\_rich, 1)}%")

print(f"Min work time: {min\_work\_hours} hours/week")

print(f"Percentage of rich among those who work fewest hours: {round(rich\_percentage, 1)}%")

print("Country with highest percentage of rich:", highest\_earning\_country)

print(f"Highest percentage of rich people in country: {round(highest\_earning\_country\_percentage, 1)}%")

print("Top occupations in India:", top\_IN\_occupation)

return {

"race\_count": race\_count,

"average\_age\_men": round(average\_age\_men, 1),

"percentage\_bachelors": round(percentage\_bachelors, 1),

"percentage\_higher\_education\_rich": round(percentage\_higher\_education\_rich, 1),

"percentage\_lower\_education\_rich": round(percentage\_lower\_education\_rich, 1),

"min\_work\_hours": min\_work\_hours,

"rich\_percentage": round(rich\_percentage, 1),

"highest\_earning\_country": highest\_earning\_country,

"highest\_earning\_country\_percentage": round(highest\_earning\_country\_percentage, 1),

"top\_IN\_occupation": top\_IN\_occupation

}