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In [1]: import pandas as pd
In [21]: def calculate_demographic_data(print_data=True):
             # Read data from file
             df = df = pd.read_csv("C:/Users/kbabu/Downloads/adult.data.csv")
             # How many of each race are represented in this dataset? This should be a Pandas series with race names as the index labels.
             race_count = pd.Series(df["race"].value_counts())
             # What is the average age of men?
             average_age_men = round(df[df["sex"] == "Male"]["age"].mean(), 1)
             # What is the percentage of people who have a Bachelor's degree?
             percentage_bachelors = round((len(df[df["education"] == "Bachelors"]) / len(df["education"])) *100, 1)
             # What percentage of people without advanced education make more than 50K?
             # with and without `Bachelors`, `Masters`, or `Doctorate`
             higher_education = len(df[((df["education"] == "Bachelors") | (df["education"] == "Masters") | (df["education"] == "Doctorate"))])
             lower_education = len(df[((df["education"] != "Bachelors") & (df["education"] != "Masters") & (df["education"] != "Doctorate"))])
             # percentage with salary >50K
             higher_ed_above_50k = len(df[((df["education"] == "Bachelors") | (df["education"] == "Masters") | (df["education"] == "Doctorate")) & (df["salary"] == ">50K")])
             lower_education_above_50k = len(df[((df["education"] != "Bachelors") & (df["education"] != "Masters") & (df["education"] != "Doctorate")) & (df["salary"] == ">50K")])
             higher_education_rich = round((higher_ed_above_50k / higher_education)* 100, 1)
             lower_education_rich = round((lower_education_above_50k / lower_education)* 100,1)
             # What is the minimum number of hours a person works per week (hours-per-week feature)?
             min_work_hours = df["hours-per-week"].min()
             # What percentage of the people who work the minimum number of hours per week have a salary of >50K?
             num_min_workers_above_50k = len(df[(df["hours-per-week"] == min_work_hours) & (df["salary"] == ">50K")])
             num_min_worker = len(df[(df["hours-per-week"] == 1)])
             rich_percentage = round(( num_min_workers_above_50k / num_min_worker ) * 100, 1)
             # What country has the highest percentage of people that earn >50K?
             df1 = round((df[(df["salary"] == ">50K")]["native-country"].value_counts()/df["native-country"].value_counts())*100, 1)
             df1 = df1.sort_values(ascending=False)
             highest_earning_country = df1.index[0]
             highest_earning_country_percentage = df1[0]
             # Identify the most popular occupation for those who earn >50K in India.
             top_IN_occupation = df[(df["salary"] == ">50K") & ( df["native-country"] == "India")]["occupation"].value_counts().index[0]
             if print_data:
                 print("Number of each race:\n", race_count)
                 print("Average age of men:", average_age_men)
                 print(f"Percentage with Bachelors degrees: {percentage_bachelors}%")
                 print(f"Percentage with higher education that earn >50K: {higher_education_rich}%")
                 print(f"Percentage without higher education that earn >50K: {lower_education_rich}%")
                 print(f"Min work time: {min_work_hours} hours/week")
                 print(f"Percentage of rich among those who work fewest hours: {rich_percentage}%")
                 print("Country with highest percentage of rich:", highest_earning_country)
                 print(f"Highest percentage of rich people in country: {highest_earning_country_percentage}%")
                 print("Top occupations in India:", top_IN_occupation)
             return {
                 'race_count': race_count,
                 'average_age_men': average_age_men,
                 'percentage_bachelors': percentage_bachelors,
                 'higher_education_rich': higher_education_rich,
                 'lower_education_rich': lower_education_rich,
                 'min_work_hours': min_work_hours,
                 'rich_percentage': rich_percentage,
                 'highest_earning_country': highest_earning_country,
                 'highest_earning_country_percentage':
                 highest_earning_country_percentage,
                 'top_IN_occupation': top_IN_occupation
         calculate_demographic_data()
         Number of each race:
          White
                                27816
         Black
                                3124
         Asian-Pac-Islander
                                1039
         Amer-Indian-Eskimo
                                 311
         0ther
                                 271
         Name: race, dtype: int64
         Average age of men: 39.4
         Percentage with Bachelors degrees: 16.4%
         Percentage with higher education that earn >50K: 46.5%
         Percentage without higher education that earn >50K: 17.4%
         Min work time: 1 hours/week
         Percentage of rich among those who work fewest hours: 10.0%
         Country with highest percentage of rich: Iran
         Highest percentage of rich people in country: 41.9%
         Top occupations in India: Prof-specialty
         {'race_count': White
                                              27816
Out[21]:
          Black
                                 3124
          Asian-Pac-Islander
                                 1039
          Amer-Indian-Eskimo
                                  311
          0ther
                                  271
          Name: race, dtype: int64,
          'average_age_men': 39.4,
          'percentage_bachelors': 16.4,
          'higher_education_rich': 46.5,
          'lower_education_rich': 17.4,
          'min_work_hours': 1,
          'rich_percentage': 10.0,
          'highest_earning_country': 'Iran',
          'highest_earning_country_percentage': 41.9,
          'top_IN_occupation': 'Prof-specialty'}
```