In [ ]:

```
import pandas as pd

df = pd.read_csv('adult.csv')

gender_counts = df['sex'].value_counts()
print(gender_counts)

average_age_women = df[df['sex'] == 'Female']['age'].mean()
print(average_age_women)

german_citizens_proportion = df[df['native-country'] == 'Germany'].shape[0] / df.shape[0]
print(german_citizens_proportion)

higher_income_mean_age = df[df['salary'] == '>50K']['age'].mean()
higher_income_std_age = df[df['salary'] == '>50K']['age'].std()
print(higher_income_mean_age, higher_income_std_age)

lower_income_mean_age = df[df['salary'] == '<=50K']['age'].mean()
lower_income_std_age = df[df['salary'] == '<=50K']['age'].std()
print(lower_income_mean_age, lower_income_std_age)

higher_income_education = ['Bachelors', 'Prof-school', 'Assoc-acdm', 'Assoc-voc', 'Masters', 'Doctorate']
is_higher_income_hs_educated = df[(df['salary'] == '>50K') & (~df['education'].isin(higher_income_education))].
print(is_higher_income_hs_educated)
```