Exploratory data analysis with Pandas

In this task you should use Pandas to answer a few questions about the Adult dataset.

1. **How many men and women (*sex* feature) are represented in this dataset?**
2. **What is the average age (*age* feature) of women?**
3. **What is the percentage of German citizens (*native-country* feature)?**
4. **What are the mean and standard deviation of age for those who earn more than 50K per year (*salary* feature) and those who earn less than 50K per year?**
5. **Is it true that people who earn more than 50K have at least a high school education? (*education – Bachelors, Prof-school, Assoc-acdm, Assoc-voc, Masters* or *Doctorate* feature)**
6. **Display age statistics for each race (*race* feature) and each gender (*sex* feature). Use *groupby()* and *describe()*. Find the maximum age of men of *Amer-Indian-Eskimo* race.**
7. **Among whom is the proportion of those who earn a lot (>50K) greater: married or single men (*marital-status* feature)? Consider as married those who have a *marital-status* starting with *Married* (Married-civ-spouse, Married-spouse-absent or Married-AF-spouse), the rest are considered bachelors.**
8. **What is the maximum number of hours a person works per week (*hours-per-week* feature)? How many people work such a number of hours, and what is the percentage of those who earn a lot (>50K) among them?**
9. **Count the average time of work (*hours-per-week*) for those who earn a little and a lot (*salary*) for each country (*native-country*). What will these be for Japan?**
10. **Find out the total number of hours worked and mean salary as per different occupations.**