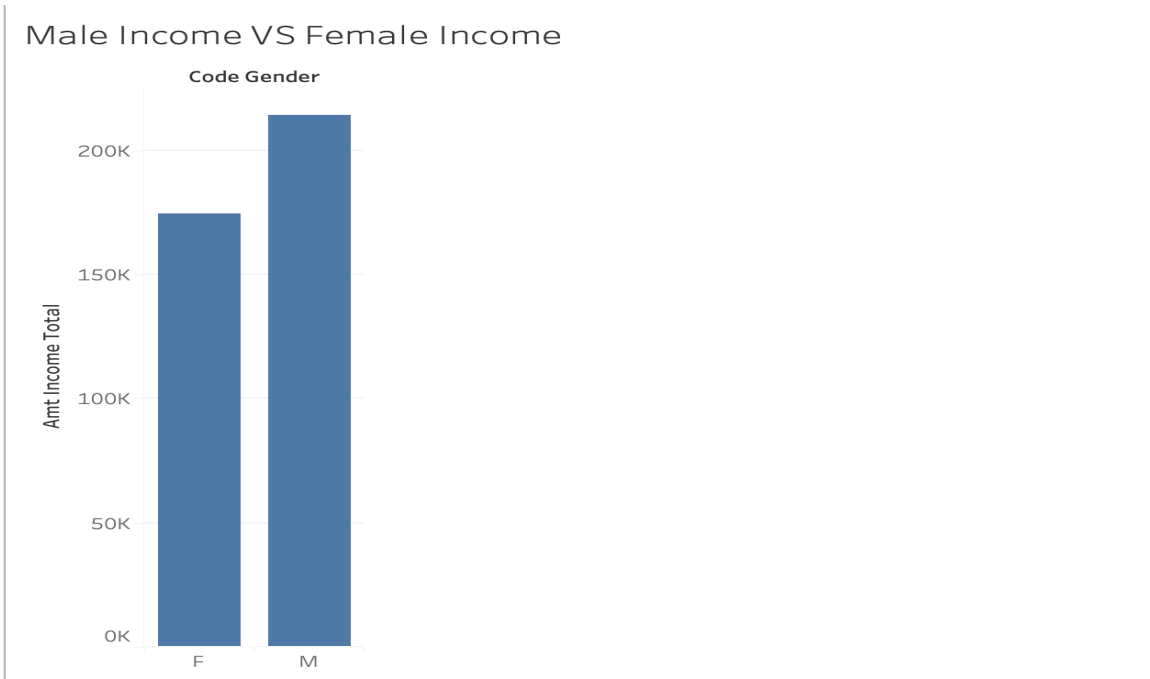
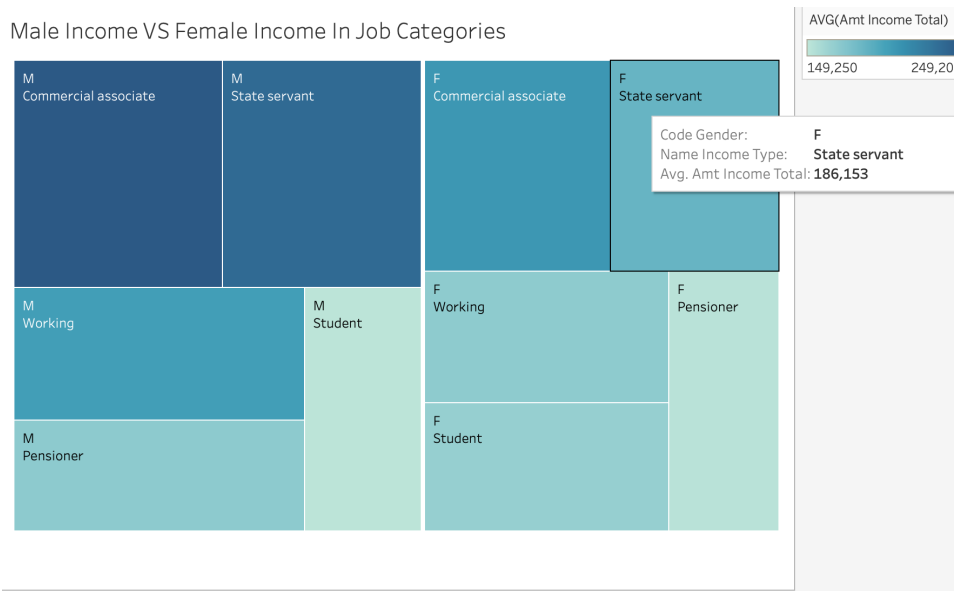


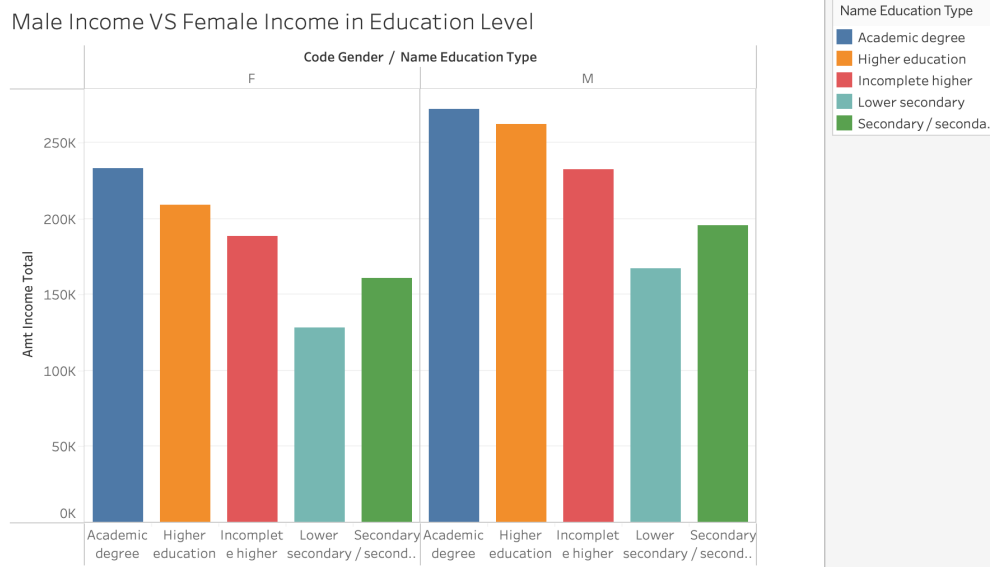
1. Male Income VS Female Income



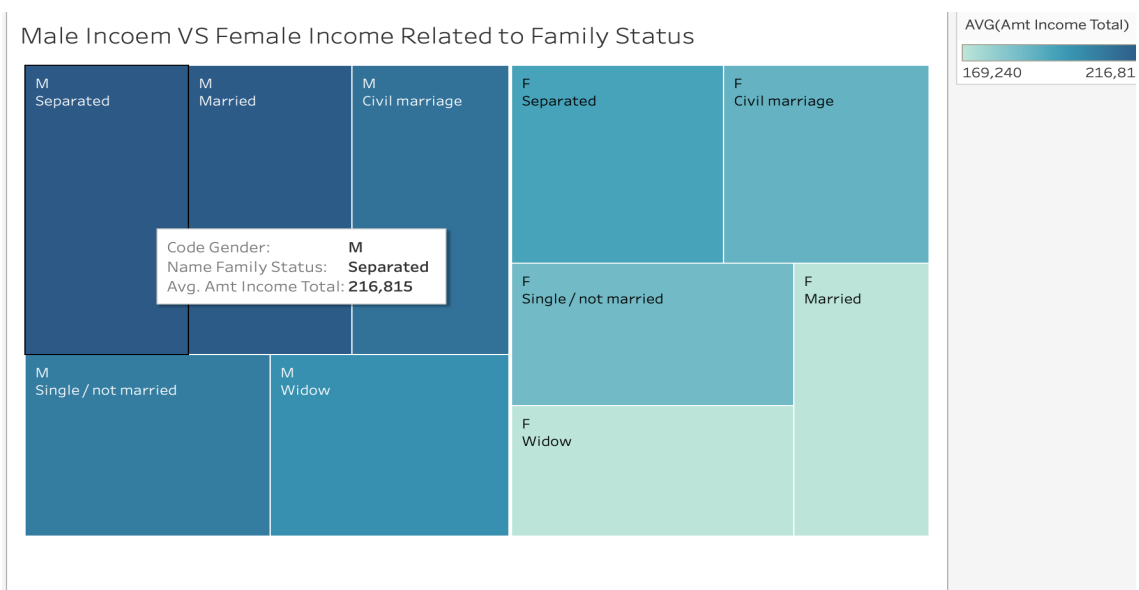
2. Male Income VS Female Income In Job Categories



3. Male Income VS Female Income in Education Level



4. Male Income VS Female Income Related to Family Status



Data Source:

https://www.kaggle.com/rikdifos/credit-card-approval-prediction?select=application_record.csv

Visualization Description

1. The first image is a visualization for male and female income in general. The reason I did this is because I want to check if the result(male has higher income than females) obtained also applies for work type, education and family status(as shown above). The work I did is average male and female income and use bar charts to visualize it. Based on the result of the chart, males' income is higher than females in general.
2. The second image is a visual representation for male and female income in different job categories. The choice for this data visualization is treemap, because the treemap uses colors to represent the amount of income and ranks the job categories by income(left to right then top to bottom). Based on the chart, the result obtained in the first visualization(male has higher income than female) also applies for job categories in most cases except for students. According to the chart, at the student level, girls usually earn more than boys.
3. The third data visualization theme is the effect of educational background on the income levels of men and women. The chart I choose is side-by-side bar , because this data visualization can divide the chart into men's income and women's income, and after changing the color of each bar chart, it can intuitively see the income comparison of men and women under the same education level. According to the result of the third chart, under the same educational background, the income of men is higher than that of women, which is the same as our first conclusion in general.
4. The purpose of the fourth data visualization is to study the effect of male and female family status on income. For this reason, the visualization method chosen here is the tree map, and the reason is very similar to the second one, because the tree map can intuitively see the amount of income through the brightness of the color (the darker the color, the higher the income). In addition to that, the treemap is sorted by the income levels of men and women in different family statuses. Based on the chart, male and female have the highest incomes when they are separated. In

addition to that, for men, the second highest income family status is when they are married, while for women, their income level is the lowest after marriage.