**GA1 Table 2 Report**

Table 2 of the census educational attainment data contains information about certain groups of the population over 25 years of age. These various characteristics include marital status, household relationships, citizenship, employment, and various others. My first step in this data analysis was to break up the data into groups that I thought might output interesting results. I decided to focus on analyzing marital status (married vs. divorced educational attainment) and employment status (employed vs. unemployed educational attainment). First I read the whole csv into a dataframe using pandas, and then selected the various rows I needed for these two different dataframes, as seen below.

**Marital status dataframe:**

Table

Description automatically generated

**Employment dataframe:**

Graphical user interface

Description automatically generated

After creating these dataframes, I created bar charts to visualize the distributions of data for married, divorced, employed and unemployed individuals. These can be seen below.

Chart, histogram

Description automatically generated

Chart, histogram

Description automatically generated

Chart, histogram

Description automatically generatedChart, histogram

Description automatically generated

These bar charts allowed me to see two different trends between the data. With respect to marital status, married individuals tended to have a greater proportion of higher education than divorced individuals. This was also the case with employed individuals vs. unemployed individuals. After seeing these bars, I then created pie charts to visualize the percentages of educational attainment for these dataframes. These can be seen below.

Chart, pie chart

Description automatically generated

Chart, pie chart

Description automatically generated

Chart, pie chart

Description automatically generated

Chart, pie chart

Description automatically generated

These pie charts show the prior trends discussed above about higher education being more common in employed and married individuals.