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ECON495S – Connolly

Stata Assignment 1

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1. **census13.dta**
   1. The units of observation are by state.
   2. There are 9 variables.
   3. Summarize the variables
      1. The average birthrate is 167.94
      2. The maximum divorce rate is .0236739
      3. The standard deviation of median age is 1.693445
   4. Tabulate the census divisions by region. (Code in .do file and output in .log file)
   5. Create a table of the mean birthrate, marriage rate, and divorce rate by division.
      1. The mountain region is the outlier in marriage rates
      2. Chart, histogram

         Description automatically generatedNevada has a very high marriage rate of .1955433
   6. Create a variable that is the ratio of the marriage rate to divorce rate. Generate, label, and save a histogram of this new variable.
2. The file **wage\_educ.dct** contains education and salary data for respondents of the National Longitudinal Study of Youth 1997 (NLSY97). The data are in a dictionary file (.dct), which is a text format. **wage\_educ.cdb** is the codebook. Import the data into Stata (Hint: use the *infile* command).
   1. Code in .do file
   2. Code in .do file
   3. 1188 for father, 523 for mother skipped
   4. Highest variance is degree level 8 (professional degree), this makes sense given that individuals with the highest education have large variance in outcomes to the upside (combination of “rich” and “very rich” people) due to the variation in salary across specialties.
   5. Code in .do file
3. **unemp\_rate.csv**
   1. Code is in .do file
   2. Merge code in .do file
   3. Code in .do file
      1. 3 represents the number of observations that were correctly merged.
      2. 1 and 2 represent observations for which there was either missing data in the wage dataset for all other characteristics (e.g. years outside 2008) or missing data in the unemployment dataset (e.g. regions outside 1-4 – observations coded as not having a region)
      3. Code in .do file
   4. Code in .do file