Complete the following tasks:

* Find a dataset that you find interesting. You can look at a variety of sources for data including:
  + Religion, health, etc.: [www.Thearda.com](http://www.Thearda.com)
  + Census, Education, Wealth, Time-Use, etc: [www.ipums.org](http://www.ipums.org)
  + Education: [www.nces.ed.gov](http://www.nces.ed.gov)
  + Mental Health: [www.cdc.gov/mentalhealth/data\_publications/index.htm](http://www.cdc.gov/mentalhealth/data_publications/index.htm)
  + Many Other Sources
* Once you have identified a dataset, explain how you accessed it. What links did you click? Was there any registration required? Did you download directly or was there an online system you navigated? **I used** [**www.Thearda.com**](http://www.Thearda.com) **for my data set and downloaded the entire set from the website. I did not need to register but I did need to change it to a csv file instead of an excel.**
* In R:
  + Import the data
  + Provide a list of variables in the dataset
    - Copy and paste this list in your word document
    - [1] "CaseID." "CASENUM" "AGE" "CLERGY" "EDUC"
    - [6] "RACE" "EVANG" "INTEV1" "INTEV2" "INTEV3"
    - [11] "INTEV4" "BELCHG" "SEXINFL" "SEXORI" "FEMCOMOT"
    - [16] "AFFECT1" "AFFECT2" "DISSON" "RESOLU" "CHGBEL1"
    - [21] "CHGBEL2" "SIBS" "PARENTS" "BOSS" "CHURMEM"
    - [26] "DR" "GENPUB" "EXTFAM" "COWRKS" "PASTOR"
    - [31] "OTHLBG" "HETERO" "PROFES" "NORMAL1" "AMBI1"
    - [36] "PASS1" "GROUP1" "MINST1" "PASS2" "GROUP2"
    - [41] "PASS3" "SUPER1" "PASS4" "MINST2" "AMBI2"
    - [46] "PASS5" "GROUP7" "SUPER2" "AMBI3" "MINST4"
    - [51] "NORMAL2" "PASS6" "MINST5" "MINST6" "NORMAL3"
    - [56] "GROUP3" "NORMAL4" "SUPER3" "GROUP6" "AMBI4"
    - [61] "NORMAL5" "SUPER4" "PASS7" "SUPER5" "GROUP4"
    - [66] "GROUP5" "AMBI5" "PREEV1" "PREEV2" "PREEV3"
    - [71] "PREEV4" "POSTEV1" "POSTEV2" "POSTEV3" "POSTEV4"
    - [76] "AGEXIAN" "AGEMALE" "AGEFEM" "AGESUSL" "AGELES"
    - [81] "AGESUSB" "AGEIDBI" "BORNAGE" "CURCH3" "EVANSCT"
    - [86] "FEMIN" "MOREFEM" "COMOUT" "PERSONAL" "UNIVERS"
    - [91] "TOTPASS" "PRETOT" "POSTTOT" "TOTMINST" "TOTNORM"
    - [96] "TOTGRP" "TOTSUP" "TOTAMBIV" "INTREVAN" "TOTLEVAN"
    - [101] "PRECOM" "XIANORES" "CATHPROT" "MODXIAN2" "I.RELIGION"
    - [106] "I.RACE" "I.EDUC"
  + What is the structure of the data? Which variables are character and which are numeric?
    - Copy and paste this list in your word document
    - 'data.frame': 186 obs. of 107 variables:
    - $ CaseID. : int 1 2 3 4 5 6 7 8 9 10 ...
    - $ CASENUM : int 1 2 3 4 5 6 7 8 9 10 ...
    - $ AGE : num 41 36 37 53 21 31 26 44 36 58 ...
    - $ CLERGY : int 0 0 0 0 0 1 0 0 0 0 ...
    - $ EDUC : int 7 5 4 5 4 5 4 4 4 5 ...
    - $ RACE : int 1 1 1 1 1 1 1 2 1 2 ...
    - $ EVANG : int 0 1 0 0 0 0 1 0 0 1 ...
    - $ INTEV1 : int NA 0 NA NA 0 0 0 1 1 NA ...
    - $ INTEV2 : int NA NA NA NA NA 0 0 1 0 NA ...
    - $ INTEV3 : int NA NA NA NA NA 0 NA 0 1 NA ...
    - $ INTEV4 : int NA NA NA NA NA 0 NA NA 0 NA ...
    - $ BELCHG : int 0 1 NA NA 0 1 1 1 0 0 ...
    - $ SEXINFL : int 1 1 NA NA 0 0 0 NA 0 0 ...
    - $ SEXORI : int 1 0 1 1 1 1 1 1 0 1 ...
    - $ FEMCOMOT : int 2 0 2 4 4 NA 1 NA NA 4 ...
    - $ AFFECT1 : int 1 1 NA NA NA 2 2 2 2 NA ...
    - $ AFFECT2 : int 2 NA NA NA NA 3 NA 3 3 NA ...
    - $ DISSON : int 2 2 2 NA 2 2 0 1 1 1 ...
    - $ RESOLU : int 2 0 0 NA 1 1 NA 0 0 1 ...
    - $ CHGBEL1 : int NA 1 0 1 1 0 NA 1 1 1 ...
    - $ CHGBEL2 : int NA 1 1 1 1 1 1 1 1 1 ...
    - $ SIBS : int 1 0 1 0 1 1 1 0 0 1 ...
    - $ PARENTS : int 1 0 1 0 0 1 1 0 0 1 ...
    - $ BOSS : int 1 1 0 0 0 1 0 0 0 1 ...
    - $ CHURMEM : int NA 1 1 0 0 1 0 0 1 0 ...
    - $ DR : int 1 0 0 1 0 1 1 0 0 1 ...
    - $ GENPUB : int 1 0 0 0 0 0 0 0 0 0 ...
    - $ EXTFAM : int 1 0 1 0 0 0 0 0 0 0 ...
    - $ COWRKS : int 1 1 0 0 0 1 1 0 0 1 ...
    - $ PASTOR : int NA 1 1 0 1 0 0 1 1 0 ...
    - $ OTHLBG : int 1 1 1 1 1 1 1 1 1 1 ...
    - $ HETERO : int 1 1 0 0 1 1 1 1 1 1 ...
    - $ PROFES : int 1 1 0 0 0 1 0 0 0 0 ...
    - $ NORMAL1 : int 2 1 4 1 3 1 1 1 3 NA ...
    - $ AMBI1 : int 2 1 2 3 2 1 2 4 1 2 ...
    - $ PASS1 : int 2 2 1 1 1 2 2 1 1 2 ...
    - $ GROUP1 : int 2 2 2 2 1 2 3 1 1 4 ...
    - $ MINST1 : int 3 2 2 1 4 2 2 2 4 2 ...
    - $ PASS2 : int 1 2 1 4 3 1 1 2 4 1 ...
    - $ GROUP2 : int 2 3 1 1 1 2 1 1 1 1 ...
    - $ PASS3 : int 2 1 1 2 2 2 1 3 3 2 ...
    - $ SUPER1 : int 4 3 2 NA 2 1 3 1 2 2 ...
    - $ PASS4 : int 3 3 3 1 4 3 4 3 4 4 ...
    - $ MINST2 : int 3 3 2 1 2 2 2 2 3 4 ...
    - $ AMBI2 : int 2 3 3 3 2 2 3 4 2 4 ...
    - $ PASS5 : int 1 1 2 NA 2 2 1 1 3 1 ...
    - $ GROUP7 : int 3 3 2 2 2 3 2 1 1 NA ...
    - $ SUPER2 : int 4 2 2 NA 2 2 2 1 1 NA ...
    - $ AMBI3 : int 2 2 2 3 2 2 3 4 1 3 ...
    - $ MINST4 : int 2 3 2 1 2 2 2 2 3 1 ...
    - $ NORMAL2 : int 3 4 2 3 1 3 3 1 2 4 ...
    - $ PASS6 : int 1 NA 2 3 NA 1 2 NA 3 1 ...
    - $ MINST5 : int 3 3 2 2 3 2 2 1 4 2 ...
    - $ MINST6 : int 2 2 3 1 2 2 1 1 2 1 ...
    - $ NORMAL3 : int 3 3 3 4 3 3 3 4 1 4 ...
    - $ GROUP3 : int 3 4 3 4 3 3 4 4 3 2 ...
    - $ NORMAL4 : int 3 3 3 4 4 3 4 4 3 4 ...
    - $ SUPER3 : int 3 3 3 4 4 3 4 4 4 4 ...
    - $ GROUP6 : int 3 2 2 1 2 2 2 1 3 1 ...
    - $ AMBI4 : int 1 1 2 2 2 1 1 1 1 1 ...
    - $ NORMAL5 : int 2 2 2 4 3 1 1 1 2 3 ...
    - $ SUPER4 : int NA 2 1 NA 2 1 2 1 2 2 ...
    - $ PASS7 : int 1 1 2 3 2 2 2 4 2 2 ...
    - $ SUPER5 : int 4 2 2 NA 2 4 2 1 1 NA ...
    - $ GROUP4 : int 3 3 4 4 3 4 4 4 4 3 ...
    - $ GROUP5 : int 2 3 2 2 2 2 2 1 2 3 ...
    - $ AMBI5 : int 2 2 2 3 2 2 2 2 1 2 ...
    - $ PREEV1 : int 4 4 1 1 3 2 2 3 3 3 ...
    - $ PREEV2 : int 4 4 3 4 3 3 3 4 4 4 ...
    - $ PREEV3 : int 4 4 2 3 2 2 3 2 4 3 ...
    - $ PREEV4 : int 4 3 3 3 2 3 2 1 2 3 ...
    - $ POSTEV1 : int 4 1 1 1 1 1 1 1 2 2 ...
    - $ POSTEV2 : int 4 3 2 4 3 4 0 4 4 4 ...
    - $ POSTEV3 : int 4 3 2 3 1 1 1 2 4 3 ...
    - $ POSTEV4 : int 4 2 2 3 2 4 1 1 3 3 ...
    - $ AGEXIAN : int NA 16 10 NA 15 NA 3 22 14 12 ...
    - $ AGEMALE : int 19 24 6 31 NA 15 NA 19 21 18 ...
    - $ AGEFEM : int 25 26 23 43 NA 18 19 23 NA 24 ...
    - $ AGESUSL : int 25 20 23 43 20 18 18 13 14 24 ...
    - $ AGELES : int 27 26 24 43 21 26 19 27 NA 24 ...
    - $ AGESUSB : int NA 36 NA NA NA NA NA NA 30 NA ...
    - $ AGEIDBI : int NA NA NA NA NA NA NA NA 30 NA ...
    - $ BORNAGE : int 0 1 0 0 0 0 0 1 1 0 ...
    - $ CURCH3 : int 2 2 0 0 0 2 2 2 0 0 ...
    - $ EVANSCT : int 32 24 16 22 17 20 13 18 26 25 ...
    - $ FEMIN : int 0 1 0 0 0 0 0 0 0 0 ...
    - $ MOREFEM : int 1 1 0 0 0 0 0 0 0 0 ...
    - $ COMOUT : int 0 0 0 0 0 0 1 0 0 0 ...
    - $ PERSONAL : int 1 0 0 0 0 1 1 1 1 0 ...
    - $ UNIVERS : int 0 0 0 0 0 1 0 1 1 0 ...
    - $ TOTPASS : int 11 NA 12 NA NA 13 13 NA 20 13 ...
    - $ PRETOT : int 16 15 9 11 10 10 10 10 13 13 ...
    - $ POSTTOT : int 16 9 7 11 7 10 3 8 13 12 ...
    - $ TOTMINST : int 13 13 11 6 13 10 9 8 16 10 ...
    - $ TOTNORM : int 13 13 14 16 14 11 12 11 11 NA ...
    - $ TOTGRP : int 18 20 16 16 14 18 18 13 15 NA ...
    - $ TOTSUP : int NA 12 10 NA 12 11 13 8 10 NA ...
    - $ TOTAMBIV : int 9 9 11 14 10 8 11 15 6 12 ...
    - $ INTREVAN : int 0 0 0 0 0 0 0 0 2 0 ...
  + Describe the data through Central Tendencies:
    - Give me the mean, median, and mode of **five variables**.
      1. summary(wow$CLERGY)
    - Min. 1st Qu. Median Mean 3rd Qu. Max.
    - 0.00000 0.00000 0.00000 0.08602 0.00000 1.00000
    - > mode(wow$CLERGY) [1] "numeric"

2) > summary(wow$AGE)

Min. 1st Qu. Median Mean 3rd Qu. Max.

18.00 31.00 37.50 38.39 45.00 70.00

> mode(wow$AGE) [1] "numeric"

3) > summary(wow$RACE)

Min. 1st Qu. Median Mean 3rd Qu. Max. NA's

1.000 1.000 1.000 1.133 1.000 6.000 13

> mode(wow$RACE) [1] "numeric"

4) > summary(wow$EDUC)

Min. 1st Qu. Median Mean 3rd Qu. Max. NA's

1.000 4.000 5.000 4.497 5.000 8.000 1

> mode(wow$EDUC) [1] "numeric"

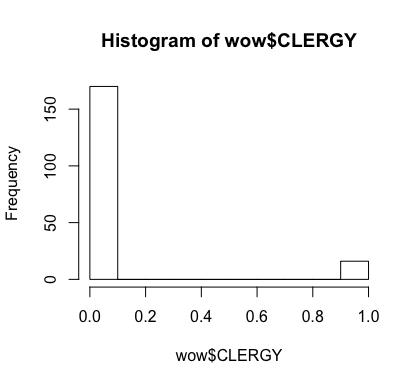
5) > summary(wow$SIBS)

Min. 1st Qu. Median Mean 3rd Qu. Max. NA's

0.0000 1.0000 1.0000 0.8125 1.0000 1.0000 10

> mode(wow$SIBS)

[1] "numeric"

* + Describe the data through variation:
    - Choose one variable and give me:
    - The variance, range, and standard deviation.
    - > var(wow$CLERGY)
    - [1] 0.07904679
    - > sd(wow$CLERGY)
    - [1] 0.2811526
    - A histogram and either box-plot or stem-leaf plot
* 

**What to turn in**

* Publish your homework to GitHub under your user account, the appropriate format (check syllabus for instructions). This means turn in a separate document from your code that answers the questions above.
* Upload the code you used to GitHub.
* Provide me the links of these two files via e-mail no later than Thursday, September 20th at 6:00pm.