library(here)  
library(rio)  
library(tidyverse)  
library(datawizard)  
library(psych)  
library(sjPlot)  
  
  
gad\_data <- import(here("Data", "gad.csv"),  
 na = "NA")  
phq\_data <- import(here("Data", "phq.csv"),  
 na = "NA")

Merge files together

full\_data <- full\_join(gad\_data, phq\_data,   
 by = "ID") %>%   
 select(-c(V1.x, V1.y)) %>%   
 mutate(gad\_mean = row\_means(.,select = c(GAD1:GAD7),   
 min\_valid = 5),  
 phq\_mean = row\_means(.,select = c(PHQ1:PHQ9),   
 min\_valid = 7))

Look into rowMeans() to see what it accomplishes

Descriptive Statistics

describe(full\_data)

## vars n mean sd median trimmed mad min max range skew  
## ID 1 200 100.50 57.88 100.50 100.50 74.13 1 200.00 199.00 0.00  
## GAD1 2 188 0.19 0.62 0.00 0.01 0.00 0 3.00 3.00 3.56  
## GAD2 3 191 0.39 0.89 0.00 0.16 0.00 0 3.00 3.00 2.08  
## GAD3 4 196 0.37 0.90 0.00 0.12 0.00 0 3.00 3.00 2.23  
## GAD4 5 187 0.29 0.77 0.00 0.07 0.00 0 3.00 3.00 2.55  
## GAD5 6 195 0.32 0.83 0.00 0.08 0.00 0 3.00 3.00 2.50  
## GAD6 7 184 0.26 0.73 0.00 0.04 0.00 0 3.00 3.00 2.87  
## GAD7 8 189 0.29 0.73 0.00 0.09 0.00 0 3.00 3.00 2.57  
## PHQ1 9 190 0.34 0.83 0.00 0.11 0.00 0 3.00 3.00 2.28  
## PHQ2 10 189 0.35 0.82 0.00 0.14 0.00 0 3.00 3.00 2.16  
## PHQ3 11 188 0.29 0.74 0.00 0.08 0.00 0 3.00 3.00 2.48  
## PHQ4 12 187 0.30 0.76 0.00 0.09 0.00 0 3.00 3.00 2.49  
## PHQ5 13 184 0.35 0.85 0.00 0.11 0.00 0 3.00 3.00 2.32  
## PHQ6 14 193 0.41 0.89 0.00 0.17 0.00 0 3.00 3.00 2.05  
## PHQ7 15 189 0.25 0.72 0.00 0.04 0.00 0 3.00 3.00 2.71  
## PHQ8 16 193 0.26 0.75 0.00 0.03 0.00 0 3.00 3.00 2.72  
## PHQ9 17 194 0.37 0.88 0.00 0.12 0.00 0 3.00 3.00 2.22  
## gad\_mean 18 199 0.30 0.32 0.29 0.26 0.42 0 1.57 1.57 1.20  
## phq\_mean 19 197 0.33 0.29 0.33 0.30 0.33 0 1.12 1.12 0.68  
## kurtosis se  
## ID -1.22 4.09  
## GAD1 12.00 0.05  
## GAD2 2.85 0.06  
## GAD3 3.41 0.06  
## GAD4 5.16 0.06  
## GAD5 4.89 0.06  
## GAD6 7.10 0.05  
## GAD7 5.76 0.05  
## PHQ1 3.82 0.06  
## PHQ2 3.29 0.06  
## PHQ3 4.94 0.05  
## PHQ4 5.13 0.06  
## PHQ5 3.97 0.06  
## PHQ6 2.80 0.06  
## PHQ7 6.07 0.05  
## PHQ8 6.09 0.05  
## PHQ9 3.37 0.06  
## gad\_mean 1.64 0.02  
## phq\_mean -0.27 0.02

full\_data %>%   
 select(GAD1:GAD7) %>%   
 describe()

## vars n mean sd median trimmed mad min max range skew kurtosis se  
## GAD1 1 188 0.19 0.62 0 0.01 0 0 3 3 3.56 12.00 0.05  
## GAD2 2 191 0.39 0.89 0 0.16 0 0 3 3 2.08 2.85 0.06  
## GAD3 3 196 0.37 0.90 0 0.12 0 0 3 3 2.23 3.41 0.06  
## GAD4 4 187 0.29 0.77 0 0.07 0 0 3 3 2.55 5.16 0.06  
## GAD5 5 195 0.32 0.83 0 0.08 0 0 3 3 2.50 4.89 0.06  
## GAD6 6 184 0.26 0.73 0 0.04 0 0 3 3 2.87 7.10 0.05  
## GAD7 7 189 0.29 0.73 0 0.09 0 0 3 3 2.57 5.76 0.05

Correlation Table <https://strengejacke.github.io/sjPlot/reference/tab_corr.html>

full\_data %>%   
 select(contains("phq")) %>%   
tab\_corr(triangle = "lower")

PHQ1

PHQ2

PHQ3

PHQ4

PHQ5

PHQ6

PHQ7

PHQ8

PHQ9

phq\_mean

PHQ1

PHQ2

-0.057

PHQ3

0.075

0.042

PHQ4

-0.063

0.246\*\*

-0.053

PHQ5

-0.038

-0.099

-0.041

0.078

PHQ6

-0.098

0.102

0.026

0.090

0.068

PHQ7

0.025

-0.164

-0.006

0.058

0.036

-0.117

PHQ8

0.167

-0.077

0.045

0.097

0.040

-0.042

0.061

PHQ9

-0.064

-0.084

0.051

0.049

-0.019

-0.043

0.030

0.040

phq\_mean

0.316\*\*\*

0.312\*\*\*

0.379\*\*\*

0.461\*\*\*

0.315\*\*\*

0.332\*\*\*

0.263\*\*

0.383\*\*\*

0.346\*\*\*

Computed correlation used pearson-method with listwise-deletion.