**Dataset:**

350 students were given a short questionnaire about their perception of parking space available on campus. The participants were first asked demographic information:

* Gender
* Class level (freshman, sophomore, junior, senior)

Next, participants were asked to indicate their opinion on three questions on parking lot space a 1-7 likert-type scale (1 = strongly disagree, 7 = strongly agree).

* I always drive to campus.
* I spend several minutes each day looking for parking.
* I think MSU should build additional parking.

**Data screening:**

Screen the dataset for the following problems:

1. Accuracy:
   1. Include output and indicate how the data *are not* accurate.
   2. Include output to show how you fixed the accuracy errors, and describe what you did.
2. Missing data:
   1. Include output that shows you have missing data.
   2. Include output and a description that shows what you did with the missing data.
      1. Replace all participant data if they have less than 20% of missing data by row.
      2. You can leave out the other participants (i.e. you do not have to create filled in \_ missing).
3. Outliers:
   1. Include a summary of your mahal scores.
   2. What are the *df* for your Mahalanobis cutoff?
   3. What is the cut off score for your Mahalanobis measure?
   4. How many outliers did you have?
   5. Delete all outliers.
4. Assumptions:
   1. Additivity:
      1. Include the symnum bivariate correlation table of your continuous measures.
      2. Do you have issues with multicollinearity or singularity?
   2. Linearity:
      1. Include a picture that shows how you might assess multivariate linearity.
      2. Do you think you’ve met the assumption for linearity?
   3. Normality:
      1. Include a picture that shows how you might assess multivariate normality.
      2. Do you think you’ve met the assumption for normality?
   4. Homogeneity:
      1. Include a picture that shows how you might assess multivariate homogeneity.
      2. Do you think you’ve met the assumption for homogeneity?
   5. Homoscedasticity:
      1. Include a picture that shows how you might assess multivariate homoscedasticity.
      2. Do you think you’ve met the assumption for homoscedasticity?