Data screening homework dataset is posted on the assignment page with this word file. Please make grading easy – cut and paste the output after the question that box applies to.

Dataset contains the following variables:

* Pre and Post scores for the following:
  + Holistic
  + Content
  + Structure
  + Stance
  + Sentence Fluency
  + Diction
  + Conventions
* This dataset is part of the Ozark’s Writing Project. One school was given a teacher development workshop to see if they could improve writing in their high school English courses. We will be comparing this school to a comparison school in town. These scores are English papers that have been graded pre-development workshop and post-development workshop.

Test the following:

1. Accuracy – cut and paste ranges/frequency table (not the individual ones, the big one).
   1. Scores should not exceed 6 – if any scores are more than 6, please change them to 6s.
2. Missing data
   1. Show with a descriptive data table that you have missing data.
   2. Replace the missing data with linear trend at point.
3. Outliers
   1. Do you have any multivariate outliers (use all variables)?
      1. What is your cut off score?
      2. What are the highest Mahalanobis values?
      3. Please eliminate all multivariate outliers.
      4. Why might these be outliers (i.e. look at the pattern of the scores before you delete them)?
4. Correlations
   1. Cut and paste the bivariate correlation table for one pre-post combination (like both holistic scores).
   2. Are any of these problematic?
5. Normality
   1. Univariate – show the skew and kurtosis values for the pre-post data.
      1. Are any of these bad?
   2. Multivariate – cut and paste the multivariate histogram.
      1. Does this look ok?
6. Linearity
   1. Cut and paste the PP Plot.
   2. Do you have linearity?
7. Homogeneity
   1. Cut and paste the residuals plot.
   2. Is this chart ok? Why or why not (be specific)?
8. Homoscedasticity
   1. Is this chart ok? Why or why not?

Include a write up of this analysis. Please see the attached dummy guide (under notes) for an example.