Chick Weight Analysis

The spreadsheet shows the daily weight gain (in grams, column B) for 50 chicks with unique identifiers (column D) fed one of four different diets (column E). Save a copy to your Google Drive so you can edit the file. Use your knowledge of statistics (mean, mode, median, standard deviation, t-test, Pearson's correlation coefficient, answer the following questions in your notebooks and the spreadsheet, where appropriate.

1. What questions can you answer from the given data? Write down at least three different questions. You don't have to include the answers.

2. Identify any outliers in the data? Use chick number to do so, and explain why that chick is considered an outlier.

3. What kind of statistical analyses could you use on the data provided?

4. What type(s) of graph could you create to display this data? Bar, line, pie, scatter plot? Identify the type of data you are displaying (x-axis and y-axis or other). Explain why you think the graph type you chose is best for the type of data you want to display. There might be more than one graph needed depending on the data you are choosing to display.

5. Create two different graphs, and save it on your Excel worksheet. They can be the same type of graph (i.e. both line) but displaying different data, or they can be two different types of graph (line and bar, bar and scatter plot, etc).