**Data Viz: Assignment 2 of 4**

**RUBRICS**

- Correct values and approach.

- Number of additional data wrangling techniques demonstrated.

- Any added comment on the exercise.

- Provide a single Jupyter Notebook file for your solution.

**QUESTIONS**

1. Download 5 datasets of your choice from <https://www.fao.org/faostat/en/#data> (the dataset chosen should have a date value) and combine them into a single file and store the dataframe of the data as fao for the rest of the exercises:
   1. Read in each file in your Jupyter Notebook file.
   2. Add a column to each dataframe, called “newColumn”, with data of your choice that could be a manipulation of any other column.
   3. Append all the dataframes from (A) together into a single dataframe.
   4. Save the result in a CSV file called fao.csv.
2. With fao, use type conversion to cast the values of the year column into datetimes and, sort by date and value.
3. Find the seven rows in fao with the lowest value for a column of your choice.
4. Right now, the data is somewhere between long and wide format. Use melt() to make it completely long format.
5. Based on your downloaded datasets, suppose on a given day, say December 2, 2016 there was a glitch in how the data was recorded. How would you handle such a scenario?
6. Employ any other data wrangling technique in your solution (label each technique as a – z)