**Ryan Long**

**DSC640**

**2.2 Exercises: Charts**

**Datasets used:**

world-population.xlsm

**Summary**

The charts were straight forward this week. The given dataset required few adjustments prior to coding the charts. I did create a column to display the population in billions to simply the chart. We’ve had discussion in the class Teams group the last few weeks on starting the y-axis at 0. Initially, I agreed it should always start at zero, but now after this exercise I feel it should be situation dependent. When comparing two things, it likely should start at zero. But in this situation for this dataset, I think it make sense to start nearer the first datapoint. A reader wouldn’t assume the world started at 1960 with approximately 3 billion people. I’m glad this exercise caused me to rethink my initial opinions on one of our discussion topics.

As far as the type of chart for this data, I prefer the step chart. I think it shows greater variation and confirms with the reader the data isn’t a mistake. With the simple line chart, aside from a slight undulation in the line, a reader may think there is something off with the data.

**The following pages contain:**

Power BI – Line chart

Power BI – Step chart

Python – Step chart

Python – Bar chart

R – Line chart

R – Step chart

**Appendix**

Code support for both Python and R notebooks

Chart, line chart

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APPENDIX