Data Collection and Structure Homework and Lab

The January-reactors-operating file was downloaded from Data.gov in January of 2020 and contains information about location and power capacity of nuclear reactors in the United States.

Open the reactors-operating.xls file in Tableau.
Drag Operating Rx-data.gov sheet into the data connection canvas.
Run interpreter.
Review the excel file that Tableau generated.
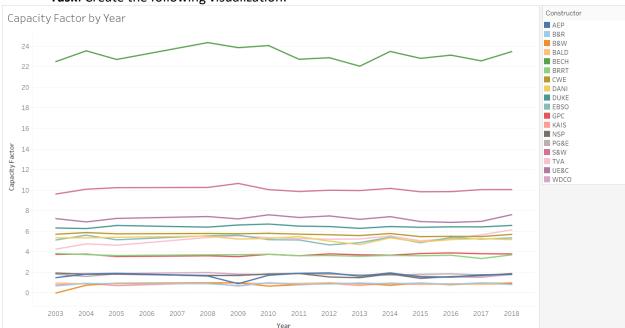
> **Question:** Note the changes that interpreter made.
> a) What data (if any) did interpreter ignore?
> b) What data were interpreted as column headers?
> c) How many rows did interpreter remove?

Select "2018 capacity factor" through "2003 capacity factor" columns and pivot.

> **Question:** How many rows does your dataset contain after pivoting? (Note that Tableau displays a maximum of 1000 rows. You can increase the maximum number by clicking the box containing "1,000" and increasing the number).

> **Question:** Is this dataset ready for analysis? Would you make any other changes? Explain.

Using the "Split" functionality, create a field "Year". Change the data type of "Year" to date. Rename "Pivot Field Value" to "Capacity Factor".

> **Task**: Create the following visualization: