Response Summary:

1. Student Information *

First Name	Keegan
Last Name	Palonis
Major	Data Visualization
Course (e.g. CGT 270-001)	CGT 270-003
Term (e.g. F2019)	S2022

2. Email Address *

(University Email Address is required.) kpalonis@purdue.edu

- 3. Visualization Assignment *
 - Lab Assignment

Analyze

4. Basic Descriptors: for each data component from the Parse Worksheet, identify basic descriptors (basic statistics). Explain *

Basic descriptors of the float data is temperature, and what the shadow looked like for Punxsutawney Phil.

5. Categorize: consider what is similar and what is different? Categorize the data. Are the variables categorical (normal, ordinal, or rank). Are they quantitative (discrete or continuous)? Show categories. Explain. *

Categories could include February and March temperatures by region (normal, continuous). Then the shadow (normal, discrete).

6. Temporal: is the data streaming data? How is it stored (all at one time, over several years in years, days, minutes, seconds)? Explain. *

The data is stored over years, as groundhog day is a once a year occurrence, and monthly in order to gather the average temperatures per month.

7. Range and Distribution: what is the distribution of the data? Few values, small size, evenly spread, sparse or dense? Explain. *

Distribution of the data is dense, as the temperatures have a range of 20-25 for 120 years of data collection.

Evaluate

8. Questions and Assumptions: list at least 3 questions you plan to answer with the data or list the questions if they were provided. Must be complete sentences and end in a question mark. What assumptions are you making? *

Question 1	Has the average temperatures in February and March changed from 1895 to 2016?
Question 2	Does Punxsutawney Phil seeing his shadow on Groundhog day (indicating 6 more weeks of winter) lead to colder average temperatures in February and March?
Question 3	How different is the average temperature in Pennsylvania from the Midwest and Northeast in February and March?
Assumptions	Temperature in Fahrenheit