Response Summary:

1. Student Information *

First Name	Rae
Last Name	Fu
Major	Animation and Visual Effects
Course *(e.g. CGT 270-001)*	CGT 270-004
Term *(e.g. F2019)*	S2022

2. Email Address *
(University Email Address is required.)
fu345@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 *
Year: Ranges from 1886 to 2016.
Punxsutawney Phil: No record-12, Full Shadow-102, Partial Shadow-1, No Shadow- 16
February Average Temperature: Average-33.803, Range-25.23 to 41.41
February Average Temperature (Northeast): Average-22.692, Range-10.4 to 31.6
February Average Temperature (Midwest): Average-32.696, Range-20.3 to 41.4
February Average Temperature (Pennsylvania): Average-26.523, Range-15.2 to 35.8
March Average Temperature: Average-41.697, Range-35.44 to 50.41
March Average Temperature (Northeast): Average-32.367, Range-24.2 to 43.4
March Average Temperature (Midwest): Average-42.567, Range-28.5 to 56.3
March Average Temperature (Pennsylvania): Average-35.908, Range-24.5 to 47.7

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. *
Year: discrete, there are no partial years and Punxsutawney Phil is ordinal since there is a slight ranking between no shadow, partial, and full shadow.

6. Temporal: is the data streaming data? How is it stored (all at one time, over several years in years, days, minutes, seconds)? Explain. *
Th data is not streaming data, they are stored in one file and user cannot change or update the existing data.

7. Range and Distribution: what is the distribution of the data? Few values, small size, evenly spread, sparse or dense? Explain. *
There is a not a wide range, it is evenly spread and dense.

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	Is there a correlation between having a shadow and the weather?
Question 2	How often is there a shadow throughout the years?
Question 3	Does the temperature have a similar pattern in the northeast and midwest?
Assumptions	The data is accurate and the values for temperature are in the same units (in Fahrenheit)