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 *
Type: 18 types
HP: Ranges from 1 to 255; average is 68.931.
Attack: Ranges from 5 to 190; average is 77.318.
Defense: Ranges from 5 to 230; average is 72.552.
Special Attack: Ranges from 10 to 194; average is 71.182.
Special Defense: Ranges from 20 to 230; average is 70.626.
Speed: Ranges from 5 to 180; average is 55.759.
Category: 3 categories
Power: Ranges from 10 to 250; average is 73.161.
Accuracy: Ranges from 50 to 100; average is 95.1261.
PP: Ranges from 1 to 40; average is 15.629.
Effectiveness: 4 levels of effectiveness.

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. *
Type: Nominal
HP: Continuous
Attack: Continuous
Defense: Continuous
Special Attack: Continuous
Special Defense: Continuous
Speed: Continuous
Category: Nominal
Power: Continuous
Accuracy: Continuous
PP: Continuous
Effectiveness: Ordinal

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 not streaming data. The data is stored at one time because users are unable to add values to the data, it is based on the 8 generations of Pokémon.

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

There are many values and are evenly spread. The average of the values falls around 100 and the data points all remain close to the average.

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	Are there type differences in HP or attack values?
Question 2	Is there a relationship between power and accuracy?
Question 3	Does type correlate to a change in speed?
Assumptions	- Pokémon type affects HP or attack values more than defense values. - Effectiveness is due to high accuracy and power. - The special attacks and special defense values correlate to the attacks and defenses.