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

Q16. How many questions have visualizations?
- Three

Q17. Question 1
Has the average temperatures in February and March changed from 1895 to 2016?

Q18. 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?

Q19. Question 3
How different is the average temperature in Pennsylvania from the Midwest and Northeast in February and March?

Remember

Question 1: *

Has the average temperatures in February and March changed from 1895 to 2016?

Apply

5. Filter the data: Remove any duplicate or any data unrelated to answering your question. Provide a description of the filtered data (what is needed to answer your question). *
The Original Data Set has data from 1886 to 2016, but I filtered to 1895 to 2016 as those are the only data points that have all the temperatures listed.

Evaluate

6. Next Step: Answer the following questions: *

Do you have enough data? Explain. If no, explain then revisit the Acquire Worksheet.	Yes!
Do you have the right data to answer Question 1? If yes, explain then proceed. If no, then revisit 'Filter the Data' question. Repeat until this answer is yes.	I do, I need to show the change in temperature in February and March over time (in different regions) and I have that information.

8. View 1 for Question 1 *
Please upload a .jpeg file
[Click here]

9. View 1 for Question 2 *
Please upload a .jpeg file
[Click here]

Remember

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?

Apply

Q41. Filter the data: Remove any duplicate or any data unrelated to answering your question. Provide a description of the filtered data (what is needed to answer your question). *

Only Data Needed is whether Punxsutawney Phil Saw His shadow or not, and the Average Temperatures overall.

Evaluate

Q43. Next Step: Answer the following questions: *

Do you have enough data? Explain. If no, explain then revisit the Acquire Worksheet.	Yes
Do you have the right data to answer Question 2? If yes, explain then proceed. If no, then revisit 'Filter the Data' question. Repeat until this answer is yes.	Yes, can tie the Average Temperatures with either shadow or no shadow

Q44. View 1 for Question 2 *
Please upload a .jpeg file
[Click here]

Q45. View 2 for Question 2 *
Please upload a .jpeg file
[Click here]

Remember

Question 3: *

How different is the average temperature in Pennsylvania from the Midwest and Northeast in February and March?

Apply

Q49. Filter the data: Remove any duplicate or any data unrelated to answering your question. Provide a description of the filtered data (what is needed to answer your question). *
Data Needed is the Year, and Average Temperatures in the Midwest, Northeast, and Pennsylvania

Evaluate

Q51. Next Step: Answer the following questions: *

Do you have enough data? Explain. If no, explain then revisit the Acquire Worksheet.	Yes, all data needed is present
Do you have the right data to answer Question 3? If yes, explain then proceed. If no, then revisit 'Filter the Data' question. Repeat until this answer is yes.	Yes, we are able to determine that Pennsylvania averages a lower temperature than the Midwest and higher than the northeast

Q52. View 1 for Question 3 *
Please upload a .jpeg file
[Click here]

Q53. View 2 for Question 3 *
Please upload a .jpeg file
[Click here]