

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.)

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3. Visualization Assignment *

- Lab Assignment

Q16. How many questions have visualizations?

- Three

Q17. Question 1

Where do Category 6 Earthquakes occur?

Q18. Question 2

How does the magnitude of earthquakes change over time?

Q19. Question 3

Does the depth of the earthquake have any impact on magnitude?

Remember

Question 1: *

Where do Category 6 Earthquakes occur?

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). *

Data needed are the latitude and longitude of the earthquakes recorded.

Evaluate

6. Next Step: Answer the following questions: *

<i>Do you have enough data? Explain. If no, explain then revisit the Acquire Worksheet.</i>	Yes!
<i>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>	Yes, the latitude and longitude is present in the data.

8. View 1 for Question 1 *

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9. View 1 for Question 2 *

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Remember

Question 2: *

How does the magnitude of earthquakes change over time?

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). *

Data needed for this question is the magnitude and date of each earthquake. I also calculated the max, min, and average of each year.

Evaluate

Q43. Next Step: Answer the following questions: *

<i>Do you have enough data? Explain. If no, explain then revisit the Acquire Worksheet.</i>	Yes
<i>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.</i>	Yes! Taking the average magnitude of earthquakes per year will allow us to see if there has been a change in magnitude over time, and the min and max graph will add perspective.

Q44. View 1 for Question 2 *

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Q45. View 2 for Question 2 *

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Remember

Question 3: *

Does the depth of the earthquake have any impact on magnitude?

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 depth and the magnitude of the earthquakes, magnitude was averaged per depth.

Evaluate

Q51. Next Step: Answer the following questions: *

<i>Do you have enough data? Explain. If no, explain then revisit the Acquire Worksheet.</i>	Yes
<i>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.</i>	Yes, the data shows that there isn't really a relationship between depth and magnitude.

Q52. View 1 for Question 3 *

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Q53. View 2 for Question 3 *

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