Quiz 1: Introduction to Data Science

TOTAL POINTS 8

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1. Which of the following statements that are true about data science? Select all that apply.   `1 point`

   - [x] An important part of data science is the ability to tell a compelling story from the data

   - [x] Data science is more relevant today because we have more data available

   - [ ] Only programmers and statisticians can do data science

   - [ ] Data science refers only to problems where the data is too big for a single computer

   - [x] Data science is used to help inform critical decisions

2. Which is NOT a typical question to ask when doing data science?   `1 point`

   - ( ) Why did this happen?

   - ( ) What happened?

   - ( ) What will happen next?

   - (•) Who will fix it?

   - ( ) What should be done about it?

3. Which of the following statements is true regarding the data science workflow.   `1 / 1 point`

   - ( ) Machine Learning often works best on the raw data.

   - ( ) Keeping missing, incomplete, or duplicate data unmodified will generate better results.

   - ( ) During the data analysis state, you need to set your goals after first visualizing the data.

   - ( ) Visualizations like histograms and scatter plots are not useful when trying to identify potential relationships between variables.

   - (•) Once you are confident in your qualitative results, you can share your finding through visualizations, presentations, and reports.

4. True/False: The three global tabs available in the MATLAB toolstrip are: Home, Plots, and Editor   `1 / 1 point`

   - ( ) True

   - (•) False

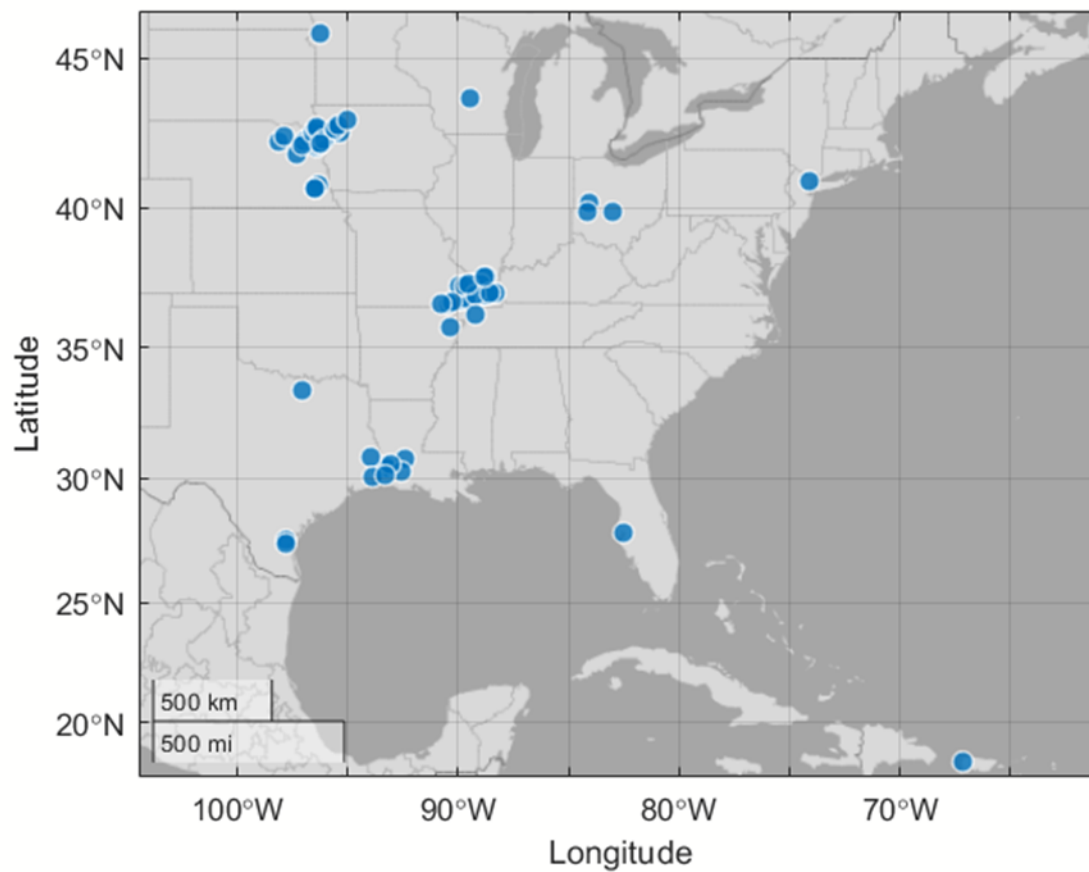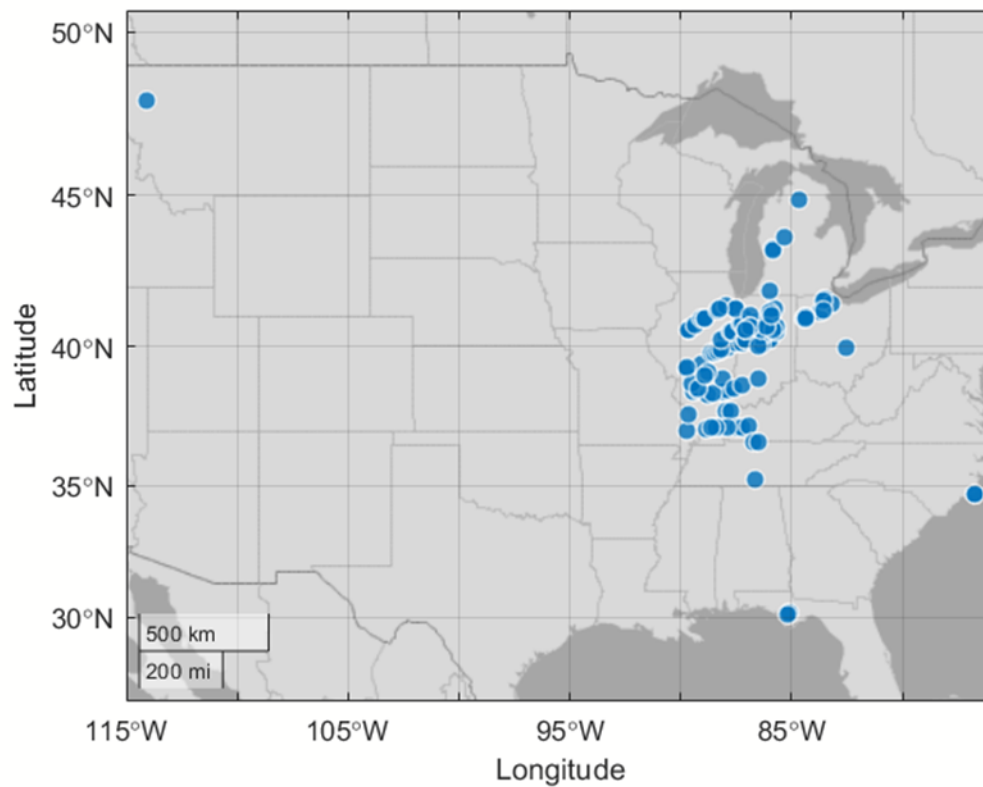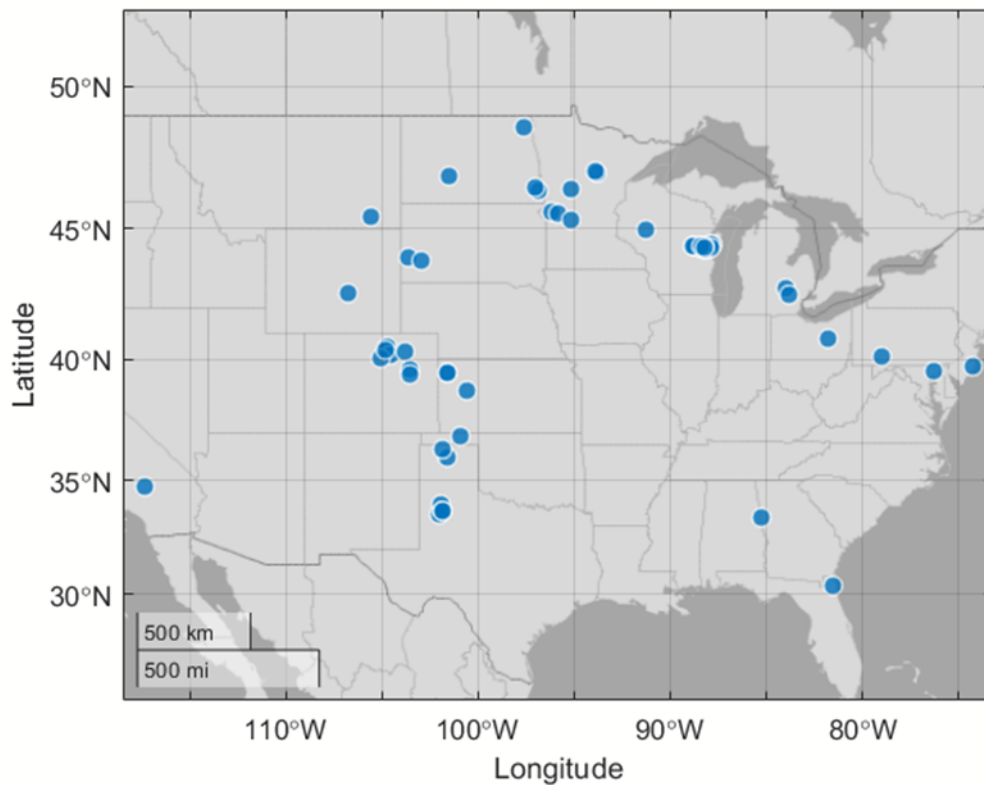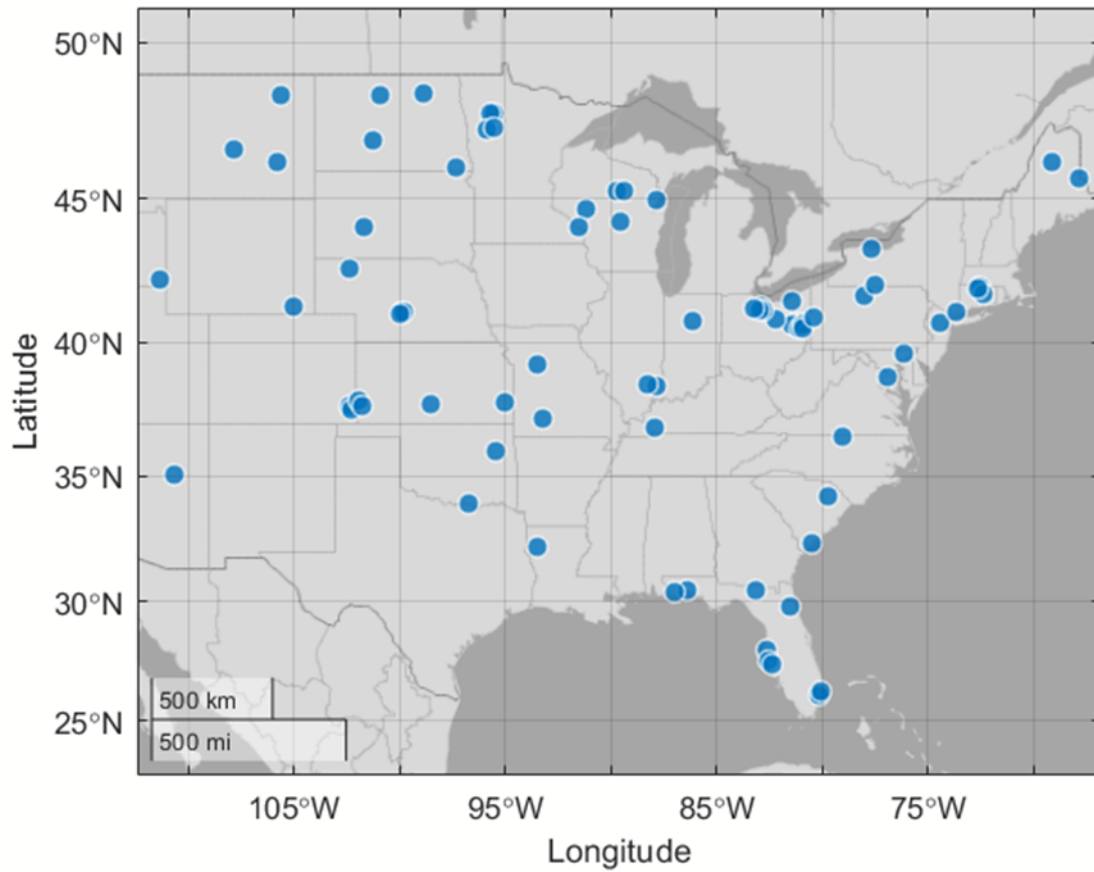5. In the MATLAB environment you create new files using the   `1 point`

   - ( ) Plots Tab

   - ( ) Apps Tab

   - ( ) Workspace

   - (•) Home Tab

   - ( ) None of the above

6. The following three questions require you to use the live script analyzing tornado events in 2013 from the reading.

Run the script to import the 2013 weather events data. Then, go to the "Plot tornadoes for a given month" section and select November from the drop-down menu. Which figure below is closest to the figure created in the script.

7. In the live script analyzing tornado events, run the script and and move to "Part 3: Calculate Group Statistics." What month had the most tornadoes?

1 point

May

8. Continuing from the previous question, move to "Total damage by month" and select "sum" from the drop-down menu. Sort the cost table by sum_Total_Damage form largest to smallest. Look at the third most damaging month. What was the cost for that month?

- ○ $353,490,500
- ◉ $88,605,000
- ○ $102,210,000
- ○ $40,211,000