PLTW 3.2.4 project notes Template

Making Meaning from Data

PLTW 3.2.4

Period: 2

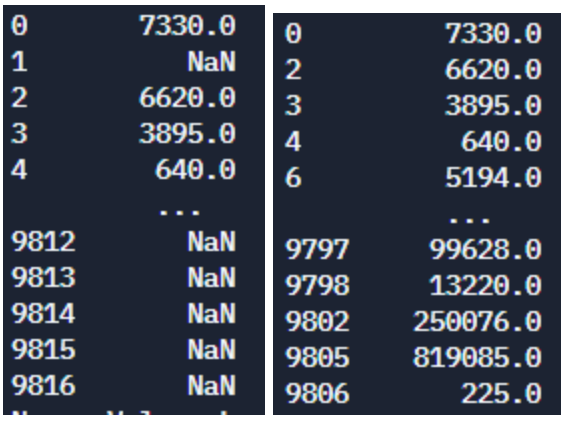
Partner Names .

Date:	Date:	Date
1. Justin Lopez	1.	1.
2. Joshua Johnson	2.	2.
2.	2.	2.

4.

Yes it contains the data that I think I'll need
In the value column there is some unusual data that will need to be fixed.

11. Show a Sample of the before and after data



0	7330.0
1	NaN
2	6620.0
3	3895.0
4	640.0
...	
9812	NaN
9813	NaN
9814	NaN
9815	NaN
9816	NaN

0	7330.0
2	6620.0
3	3895.0
4	640.0
6	5194.0
...	
9797	99628.0
9798	13220.0
9802	250076.0
9805	819085.0
9806	225.0

Document with pseudocode the data-cleansing algorithm you used and include a brief description of the cleaning effect.

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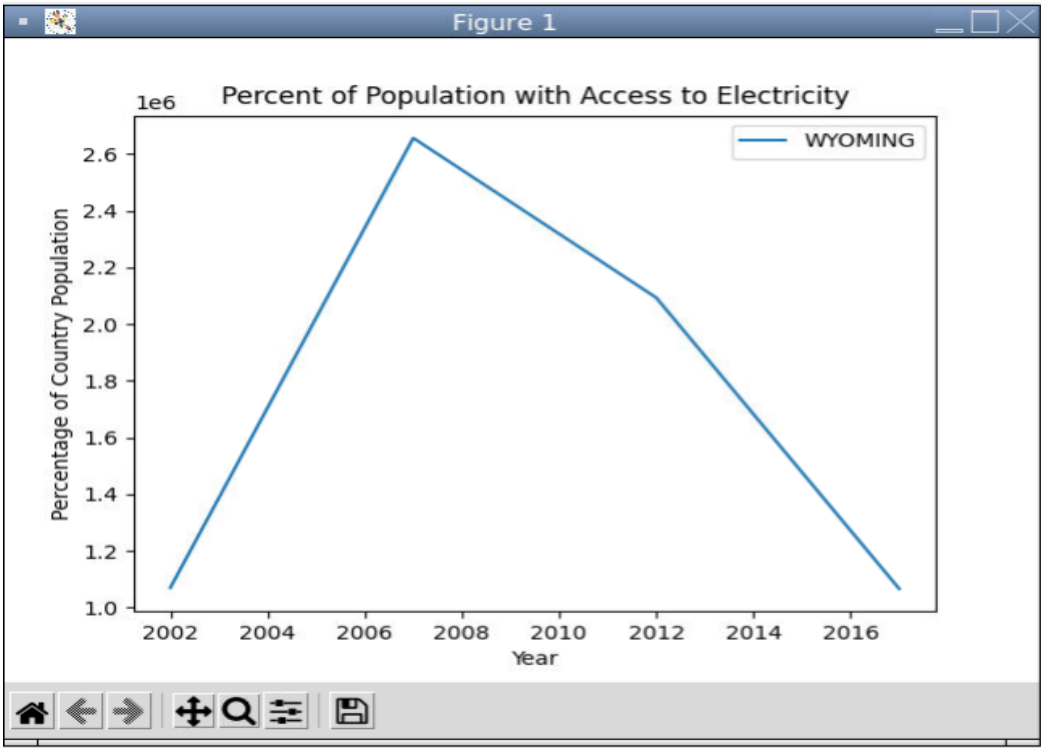
13. Describe how your data collection algorithm works using the `groupby` method.

We used the groupby method to show specific data from each state, collecting data from each state and each year.

16. Show Plot



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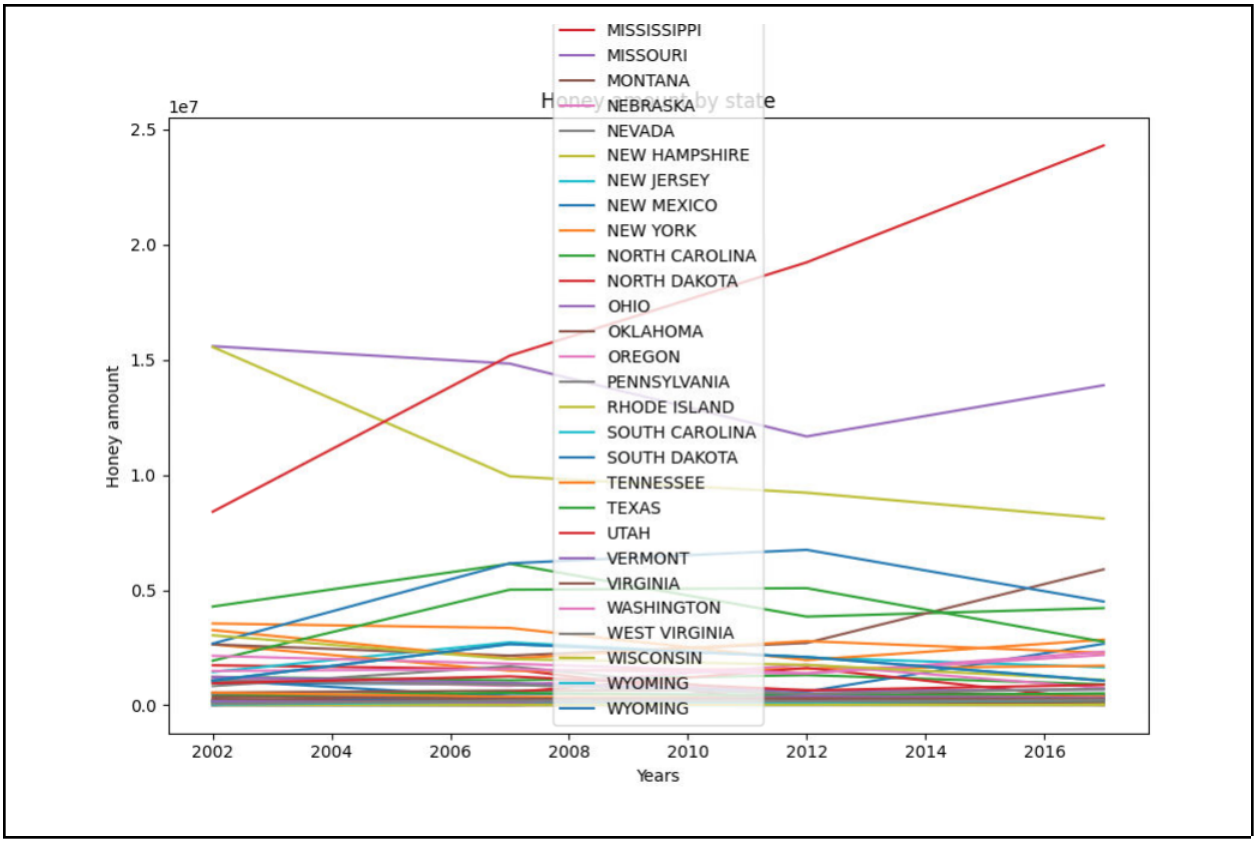
17. Show the new plot



19. Show the three plots

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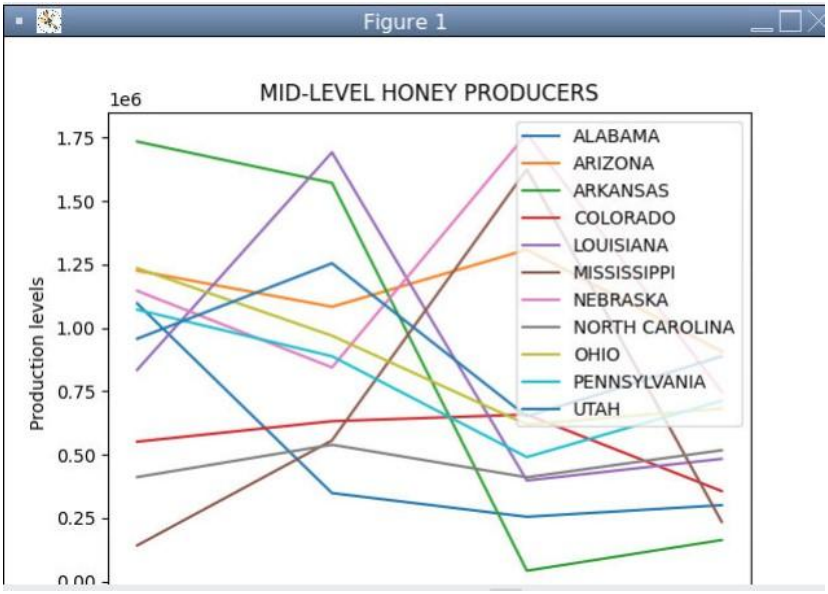

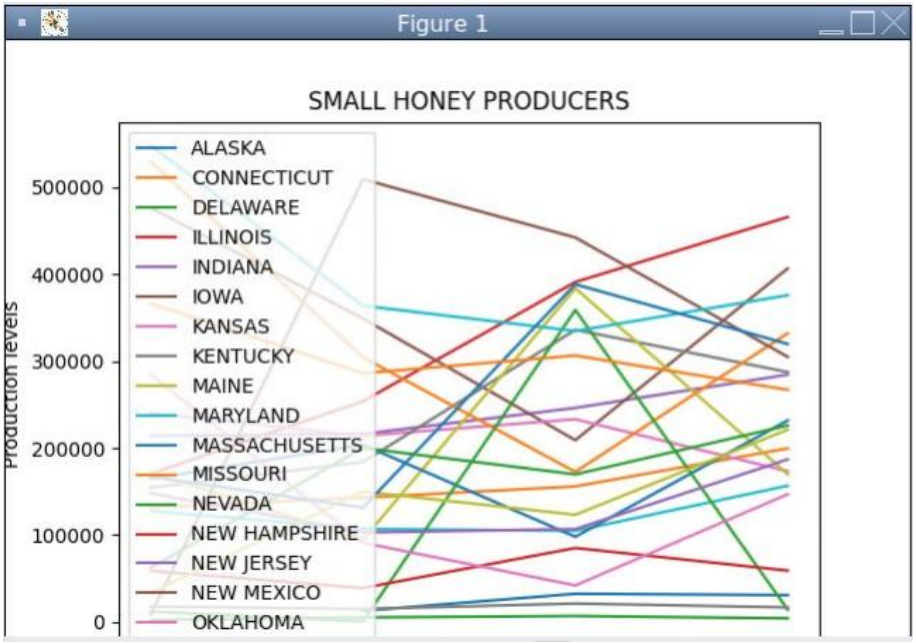

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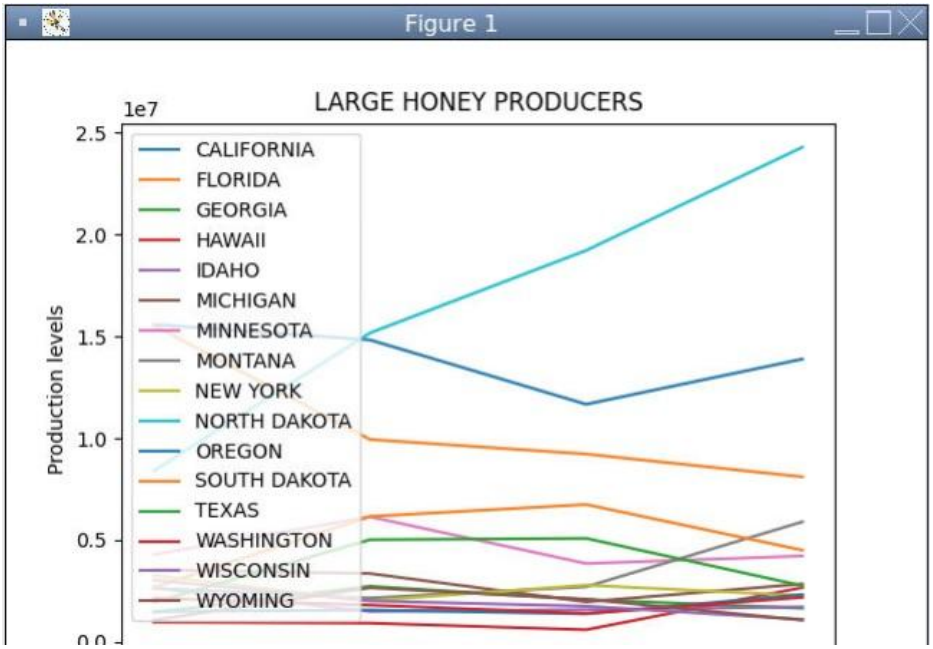

What are some other ways you could have divided this data onto different graphs other than the total honey production?

20.

All Alabama's honey production from the year 2017 was 300575.
300575 for 2017.
ALABAMA Year 2002 1095643.0 2007 348244.0 2012 254742.0 2017 300575.0

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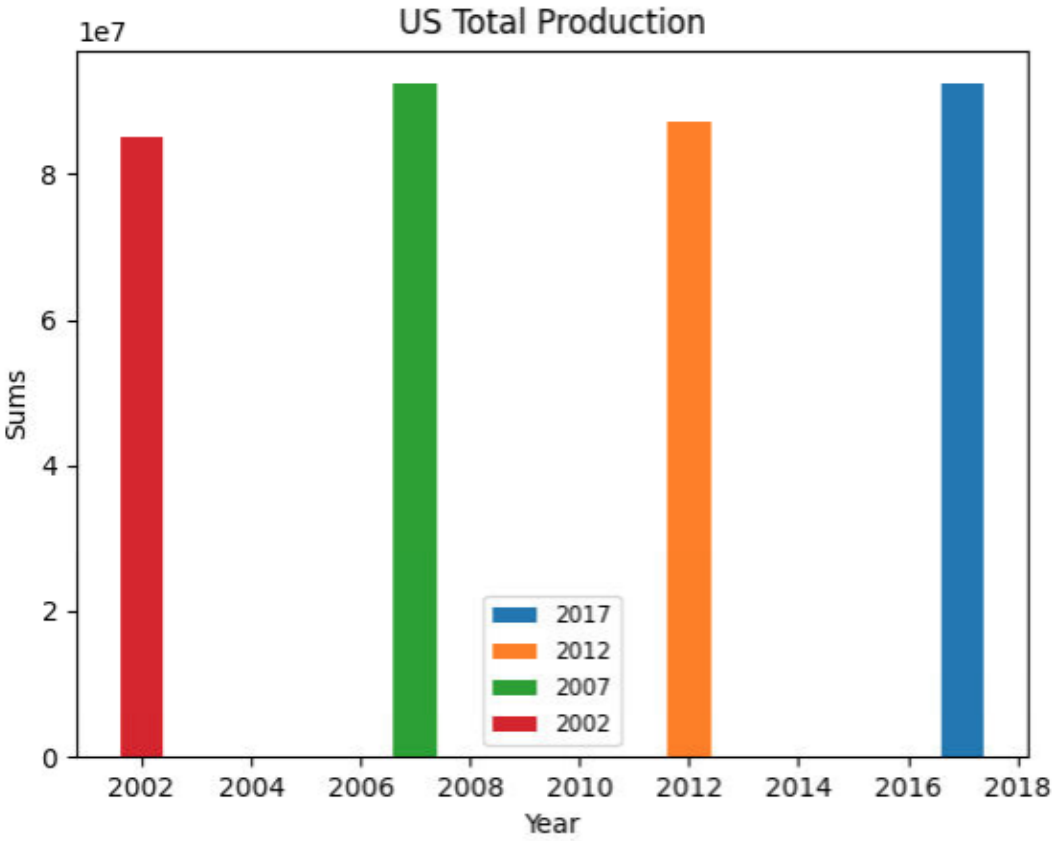
21. Show Plot



23. What is the value of manually validating the data?

By manually validating your data, you can get the most out of your data by making sure all the data is correct.

Conclusions:

1. The challenges we faced were data files with multiple sets and cleaning the data files

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2. It helped us understand where the bee colonies come from mostly and where they originate.

Vocabulary:

Keys: “Part of a key-value data structure often referred to as key-value pairs. Each key maps to a value.”