



Data Visualization Assignment

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Description of the Dataset:

This dataset contains these columns: id, date, price, bedrooms, bathrooms, sqft_living, sqft_lot, floors, waterfront, view, condition, grade, sqft_above, sqft_basement, yr_built, yr_renovated, zip code, lat, long, sqft_living15, sqft_lot15.

Data Visualization

1. Which of the following libraries should be imported for creating charts in python?
 - a. Pandas
 - b. Random
 - c. Math
 - d. Matplotlib
2. How to visualize the correlation pattern in the dataset?
 - a. Histogram
 - b. Bar plot
 - c. Scatterplot
 - d. Heatmap
3. Which function can we use for plotting the boxplot?
 - a. sns.box()
 - b. plt.bplot()
 - c. sns.boxplot()
 - d. pl.boxplt()
4. What insights can we extract from the boxplot?
 - a. 2nd quartile
 - b. 1st quadrille
 - c. 3rd quartile
 - d. All of the above
5. Which visualization is not part of matplotlib?
 - a. Table plot
 - b. Area plot
 - c. Violin plot
 - d. All of the above

6. From which visualization we can find the median/mean value of the data?

- a. Bar plot
- b. Boxplot
- c. Violin plot
- d. All of the above

7. Which of the following is correct?

- a. `plt.scatter(data['gender'],data['age'])`
- b. `plt.boxpt(data['gender'],data['age'])`
- c. `plt.scatter(data['salary'],data['age'])`
- d. None of the above

8. What error you will get after executing the below code: `data.box('bedrooms','grade')`

- a. Attribute error
- b. Syntax error
- c. Runtime error
- d. None of the above

9. Which of the following code you can use for plotting the pie chart:

- a. `plt.pie(x)`
- b. `sns.pie(x)`
- c. Both of the above
- d. None of the above

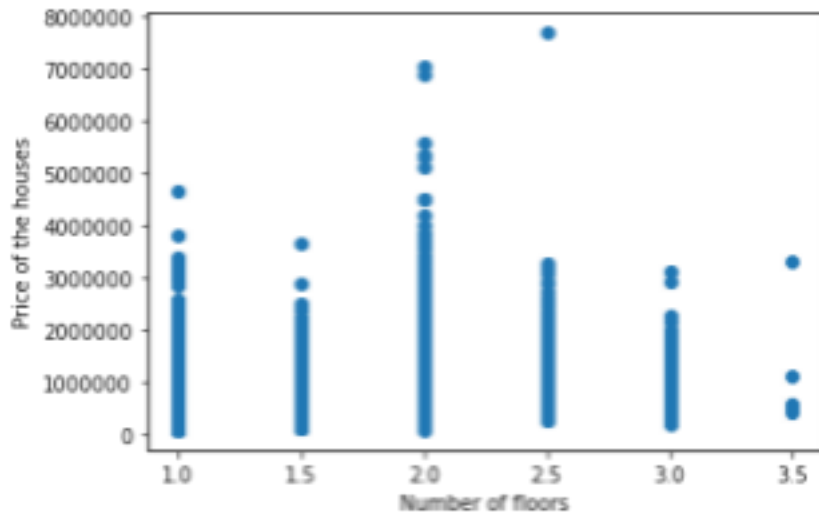
10. What is the correct way of plotting violin plot?

- a. `sns.violinplot(data=data, y = 'price',x 'waterfront')`
- b. `sns.violin(data=data, y = 'price',x = 'waterfront')`
- c. `plt.violinplot(data=data, y = 'price',x='waterfront')`
- d. All of the above

11. Select the incorrect syntax:

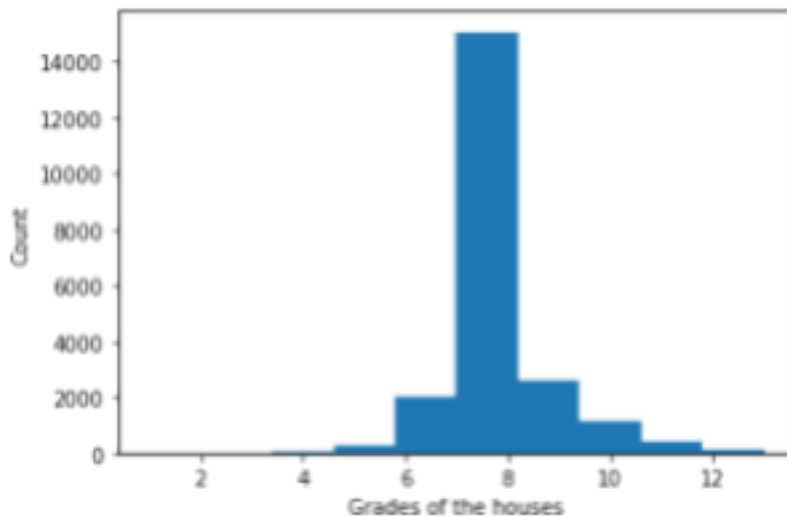
- a. `plt.figsizes()`
- b. `plt.figtext()`
- c. `plt.figpic()`
- d. Both A and C

12. What inference you can extract from the below graph:



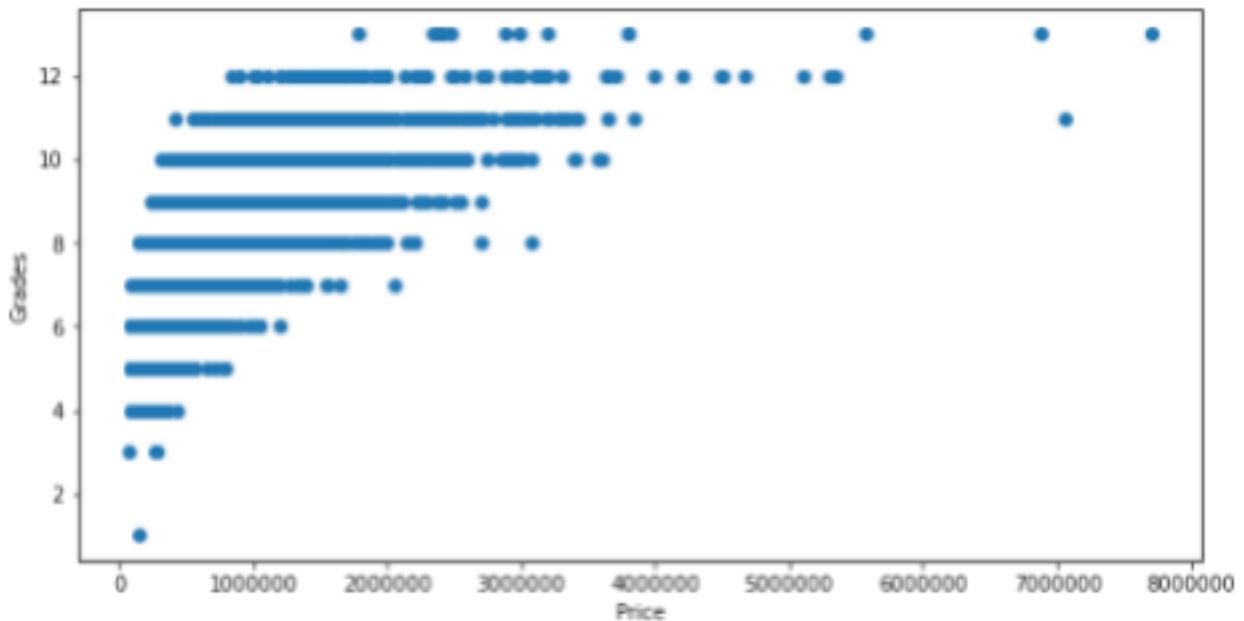
- a. The cheapest house is having 3 floors.
- b. The costliest house is having 2.5 floors.
- c. The maximum number of houses are having 1 floor only
- d. All of the above

13. Which of the following statements are correct with respect to the below image:



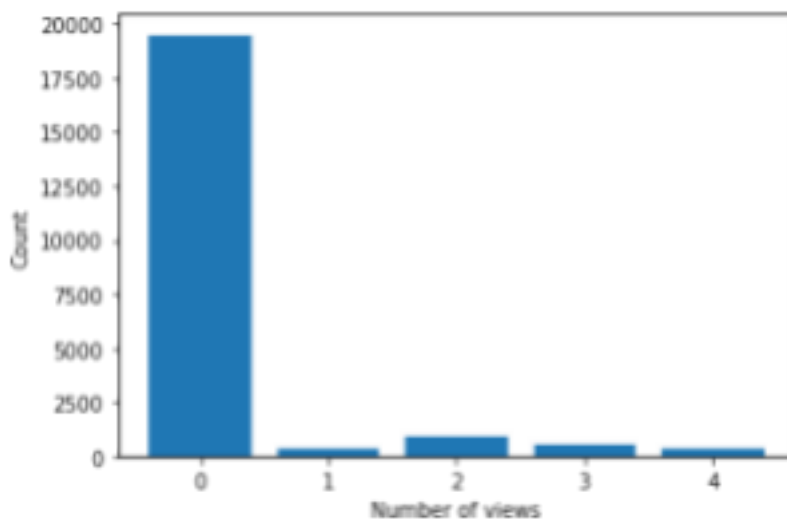
- a. The maximum number of houses have grades of either 7 or 8.
- b. Around 2000 houses are having grades between 6 and 7.
- c. Both of the above.
- d. None of the above.

14. Which of the following statements is/are correct with respect to the below image:



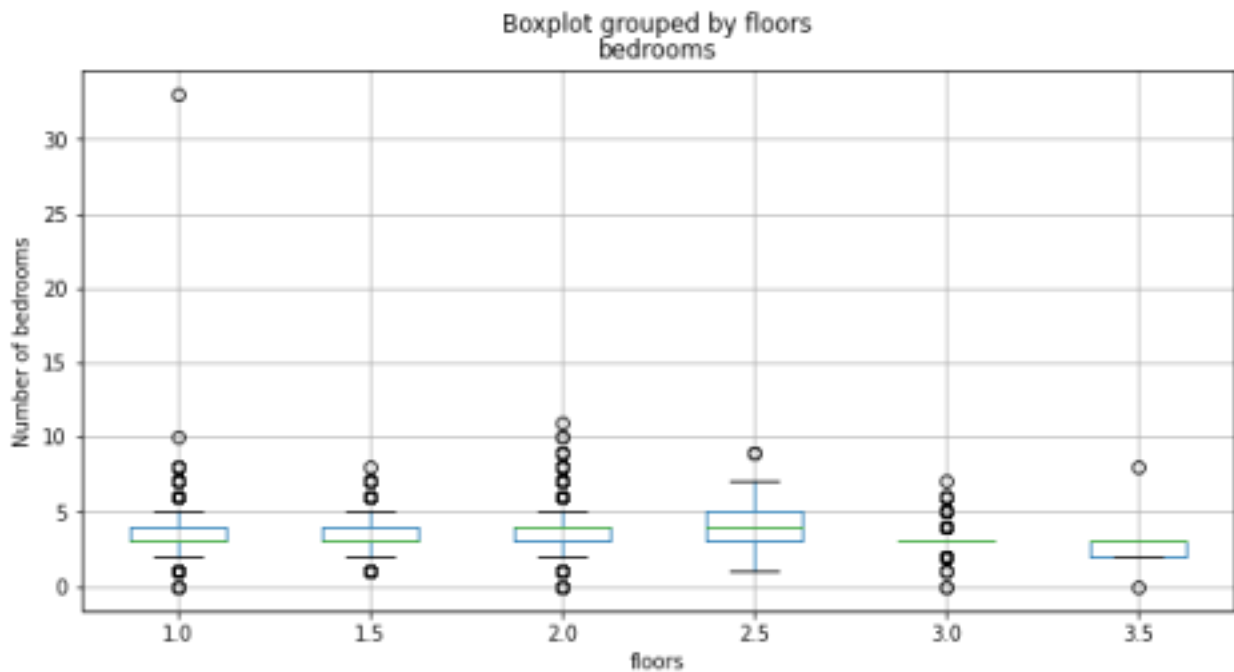
- a. The average-priced house has grades between 10 and 12.
- b. The costliest house is having a grade below 10.
- c. As the price is getting higher, grades are also getting higher.
- d. The average-priced house is having average grades.

15. Which statement is correct with respect to the below image:



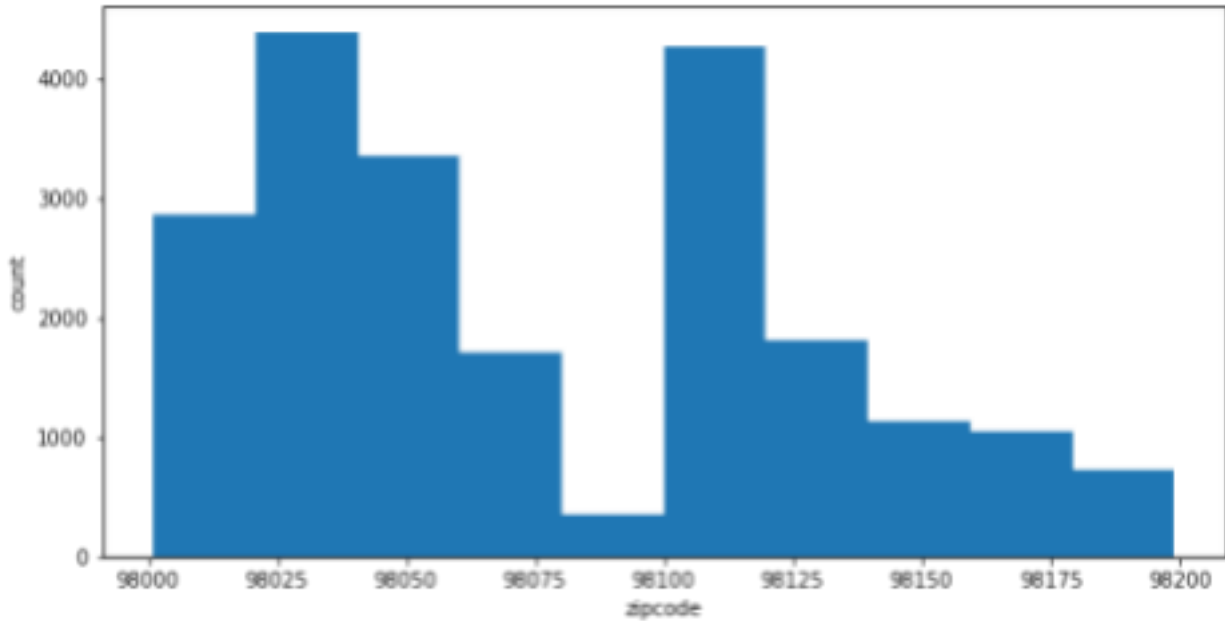
- a. The maximum number of houses are not having any view.
- b. Around 300 houses are having only one view.
- c. The 4th category is having the least count of houses.
- d. All of the above.

16. Which of the following statements are correct with respect to the below image:



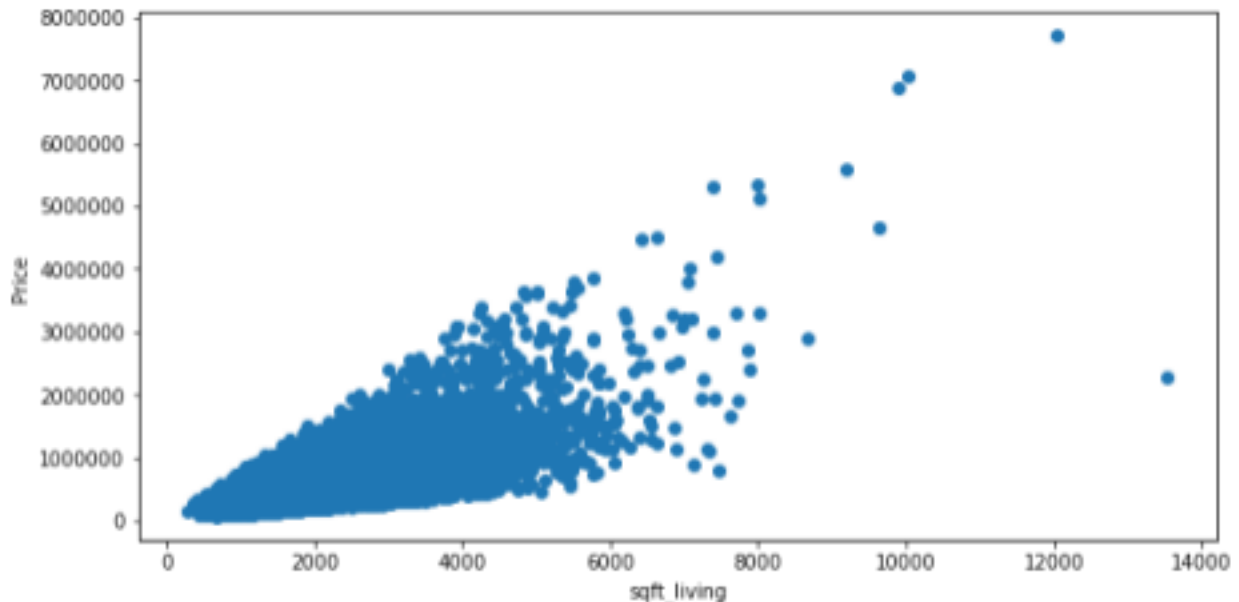
- a. All categories of floors are having outliers.
- b. We can handle the outliers by replacing them with the mean of the column.
- c. We can handle the outliers by replacing them with the mode of the column.
- a. Only a is correct
- b. a&c are correct
- c. b&c are correct
- d. All statements are correct.

17. Which statement is correct with respect to the below image:



- Maximum houses have zip codes between 98100 and 98125.
- A Smaller number of houses have zip codes between 98075 and 98100.
- The houses that are having zip codes between 98000 and 98050 are having the costliest houses.
- All of the above.

18. Which of the following statements is/are correct with respect to the below image:

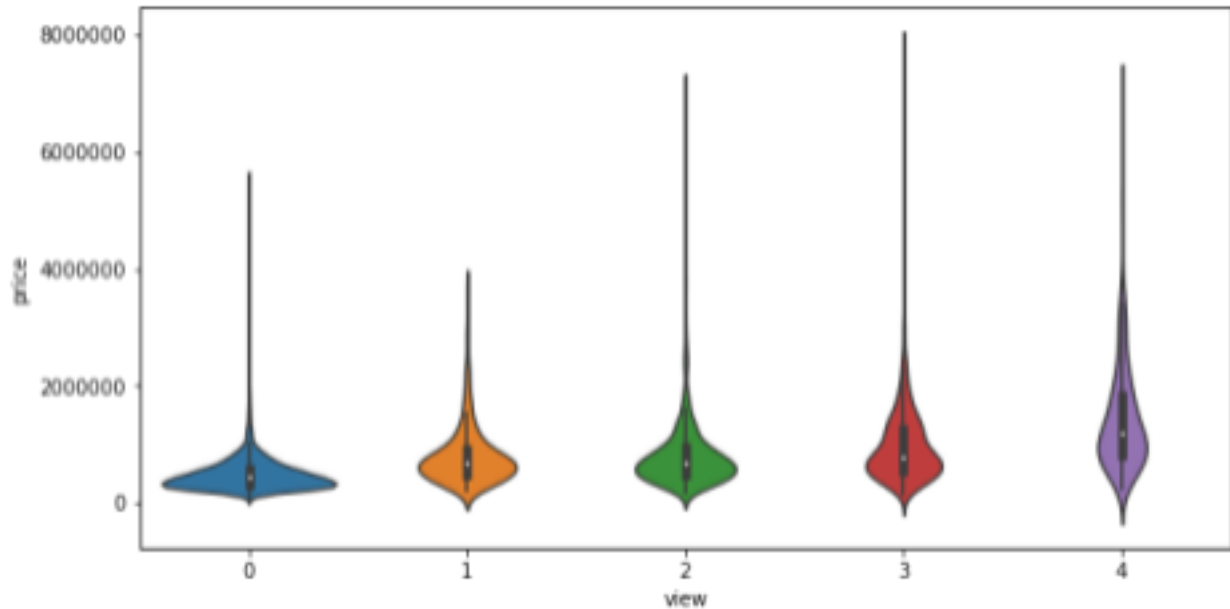


- If the price is getting higher, the area of sqft_living is also increasing.
- If the price is getting lower, the area of sqft_living is decreasing.

c. The costliest house has the maximum sqft of living area.

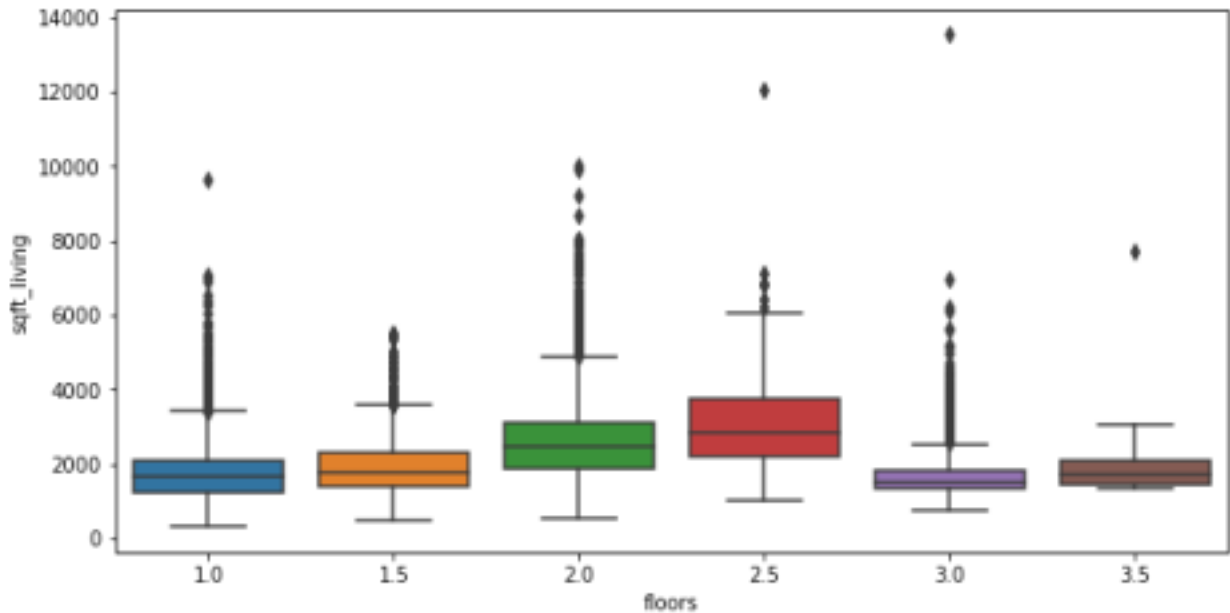
- A. A and B
- B. A and C
- C. B and C
- D. Only A
- E. Only B
- F. Only C

19. Which of the following statements are correct with respect to the below image:



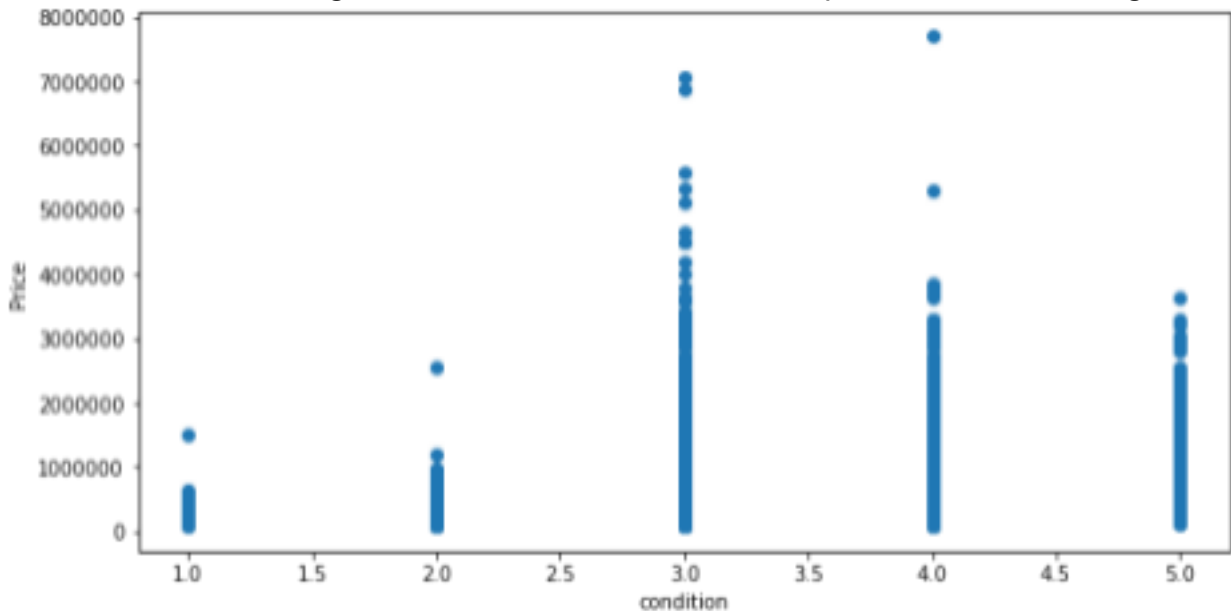
- a. The interquartile range for the 4th category of view is the highest among the rest of the views.
- b. The houses that are having no view, are having a high probability of having a cheap house.
- c. Both of the above.
- d. None of the above.

20. Which of the following statements is/are correct with respect to the below image:



- The average area of square foot living in 3 number floors is very close to its 1st quartile value.
- The 1st quartile value and the minimum square feet of living space are almost the same.
- Each category of floors are having outliers.
- All of the above.

21. Which of the following statements is/are correct with respect to the below image:



- If the condition is increasing, the price of the house is also increasing.
- The costliest house is having the 5th category of condition.
- The 4th category of the condition is having the maximum number of houses.
- None of the above.