DATA CLEANİNG PART

There were many unclean data in our data set.Firstly, I changed data types that are not true. I changed the construction year data type to Date &Time from number(whole). Then I changed the last review data type Date&Time from a string. I changed the price data type to a number(whole). I changed the service fee data type to number(whole) from string. After that, I choose non-null values in each category as I eliminate null values.That is,I used filter. In some categories, there are not any null values but I still filter as non-null values. However, some data values were still unclean. For instance, availability has a -5 value and I changed its least value for 0 so it has the only positive values.

1) What is the number of reviews per month in neighbourhoods of US related to cancellation policy?
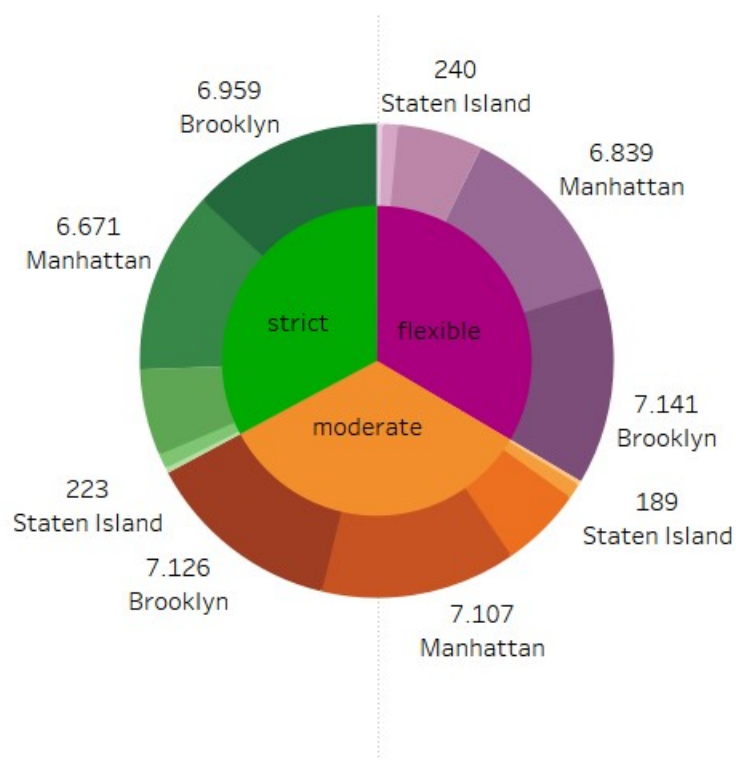
My Tableau dashboard topic is Brooklyn because of this sunburst graph. Brooklyn has the most value in all of the categories so it is an important neighborhood group.This sunburst graph is divided into the cancellation policy of the US and colors help to classify them. Purple is utilized for a flexible cancellation policy, orange is utilized for a moderate cancellation policy and green is utilized strict cancellation policy. Also, the moderate cancellation policy has the most value and its value is 17,944. However, a strict cancellation policy has the least value and its value is 17,481 and flexible cancellation policy has the 17.840 value. Also, this sunburst graph is sorted from the least number of reviews per month to the most number of reviews per month. Brooklyn has the most number of reviews per month in the US which applies a strict cancellation policy and its value is 6,959. Staten Island has the least number of reviews per month in the US which applies a strict cancellation policy and its value is 223. Brooklyn has the most number of reviews per month in the US which applies a flexible cancellation policy and its value is 7,141. Staten Island has the least number of reviews per month in the US which applies a flexible cancellation policy and its value is 240. Brooklyn has the most number of reviews per month in the US which applies a moderate cancellation policy and its value is 7,126. Staten Islands has the least number of reviews per month in the US which applies a moderate cancellation policy and its value is 189.That is,Brooklyn generrally has the highest number of rewiews per month.On the other side,Staten Island generally has the lowest number of reviews per month.

2) Which cities have the most service fee in the entire home/apt of Brooklyn's neighborhood?

| room type	neighbour hood group	neighbourhood	service fee
Entire home/apt	Brooklyn	Williamsburg	185.062
		Bedford-Stuyvesant	178.935
		Crown Heights	82.557
		Bushwick	72.429
		Greenpoint	55.411
		Clinton Hill	34.952
		Park Slope	31.979
		Fort Greene	31.261
		Prospect-Lefferts G..	31.197
		Flatbush	31.000

This lollipop chart demonstrates that Williamsburg, Bedford-Stuyvesant, Crown Heights, Bushwick, Greenpoint, Clinton Hill, Park Slope, Fort Greene, Prospect-Leffert Gardens and Flatbush have the most service fee among Brooklyn's neighborhoods in the Entire home/apt. Also, the value of service fees in Williamsburg is the biggest and value is 185,062. However,the value of the service fee in Flatbush is the smallest and its value is 31,000.This graph sorted from the most service fee to least service fee.

3) What is the review per month in Brooklyn when we classified the instant bookable situation?

TRUE
Brooklyn
10.463,0

FALSE
Brooklyn
10.763,0
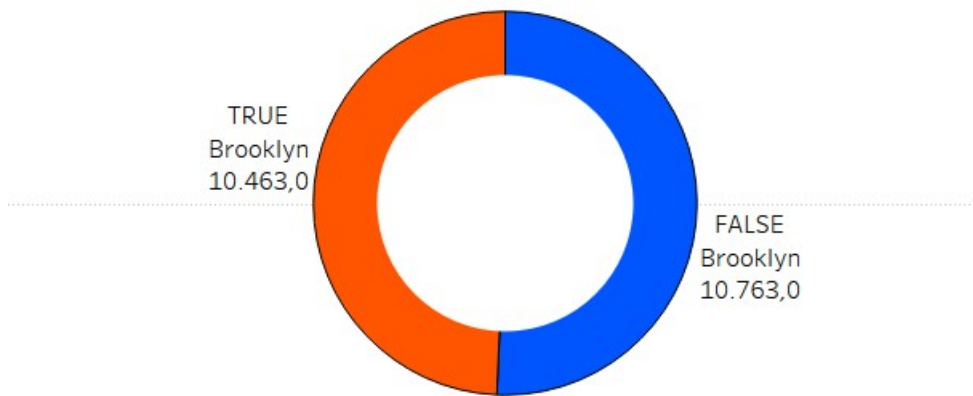
This doughnut chart is divided by red and blue whether it is instantly bookable in Brooklyn. Red is utilized to show that instant bookable. However, blue is utilized to show that there is not instant bookable. Also, this chart shows the number of reviews per month in Brooklyn. The value of a review per month is 10.463 when there is an instant bookable and the value of a review per month is 10.763 when there is not instant bookable.

4)What is the most 3 price when we compare Entire home/apt and Private room in Brooklyn neighborhoods which classified their cancellation policy?

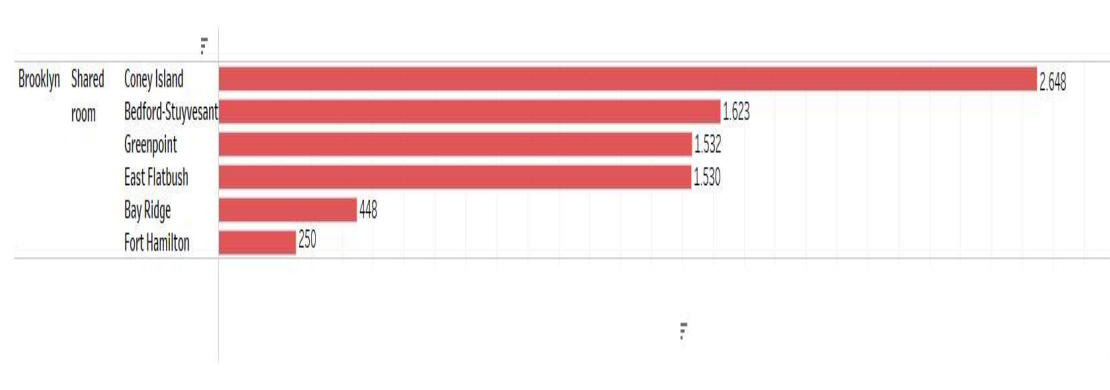**neighbourhood group / room type / neighbourhood**
Brooklyn
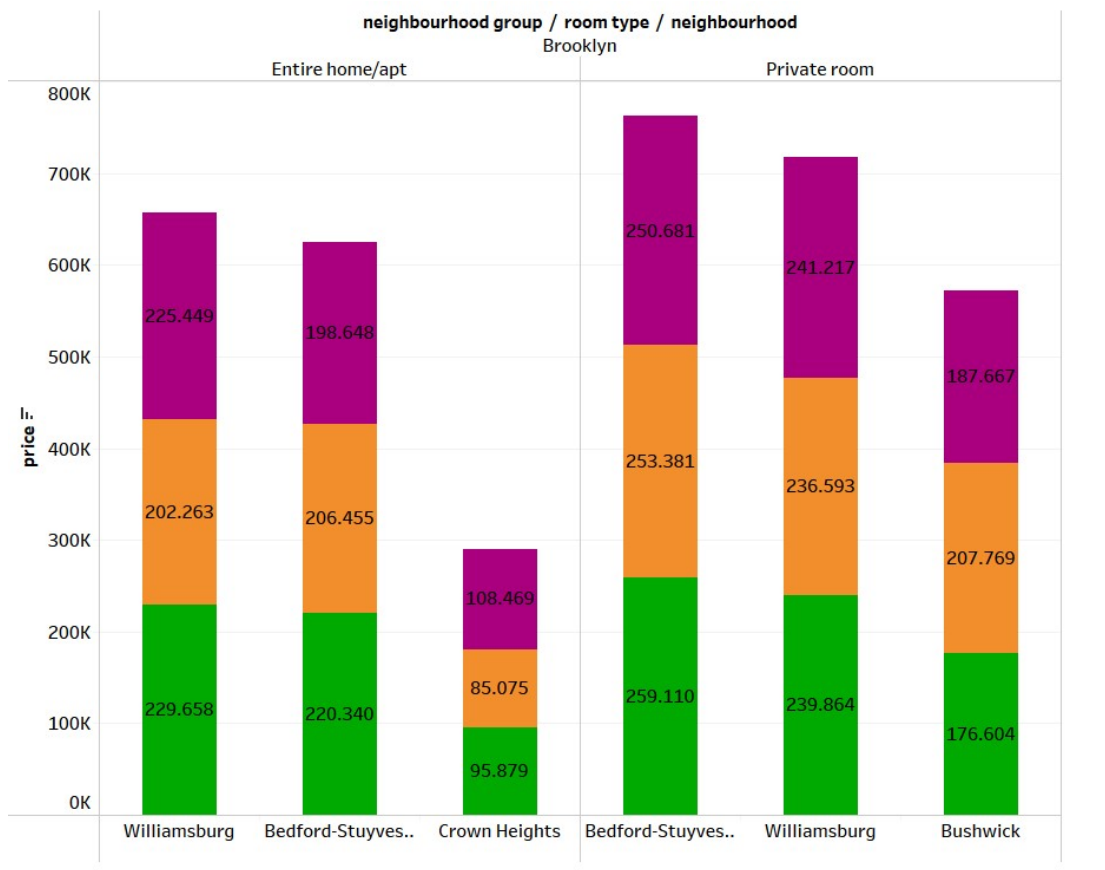
These stacked bars compare the price of the Entire home/apt and private room in 3 Brooklyn neighborhoods which have the most price. It indicates not only the prices of the neighborhood, but also it shows prices which are classified into their cancellation policy. Purple indicates a flexible cancellation policy, orange indicates a moderate cancellation policy and green indicates a strict cancellation policy. In Entire home /apt, Williamsburg is the most expensive neighborhood. Furthermore, it is the most expensive among the other neighborhood which applies a strict cancellation policy. However, Crown Heights is the cheapest neighborhood. Moreover, it is the cheapest among the other neighborhood which applies a strict cancellation policy.

In a Private room, Bedford-Stuyvesant is the most expensive neighborhood. Furthermore, it is the most expensive among the other neighborhood which applies a strict cancellation policy. However, Bushwick is the cheapest neighborhood. Moreover, it is the cheapest

among the other neighborhood which applies a strict cancellation policy.

5) What is the prices of Shared room which is constructed in 2022 in Brooklyn's neighborhoods?

|			
Brooklyn	Shared room	Coney Island	2.648
		Bedford-Stuyvesant	1.623
		Greenpoint	1.532
		East Flatbush	1.530
		Bay Ridge	448
		Fort Hamilton	250

This bar graph shows that prices of Shared rooms in Brooklyn neighborhoods.Bay Ridge,Bedford-Stuyvesant,Coney Island,East Flatbush,Fort Hamilton,Greenpoint have a shared room. Furthermore, they are constructed in 2022.That is, these rooms are new.I want to show that these rooms are new so I restricted the graph for construction year in 2022. Coney Island has the most price and its value is 2.648. Fort Hamilton has the least price and its value is 250. Also, this graph is right (positively) skewed. The value of the mean> The value of the median> The value of the mode in this graph.

6) What is the review rate number and host identity in Brooklyn's neighborhoods ?

This bar graph shows Brooklyn neighborhoods which just last reviewed in 2022. I choose 2022 year because it is more recent and it gives more accurate information to people. Also, colors are classified as their host identity verified or unconfirmed. For instance, pink is utilized for unconfirmed and green is utilized for verified host identity. Furthermore, this bar graph gives information about the review rate number. Bedford Stuyvesant has the most review rate number and its value is 5. The review rate number of Prospect Heights is 1. Sunset Park has a review rate number. Prospect Heights and Sunset park have equal value.

7)What is the calculated host listings count in US neighborhoods group which do not allow loud music?
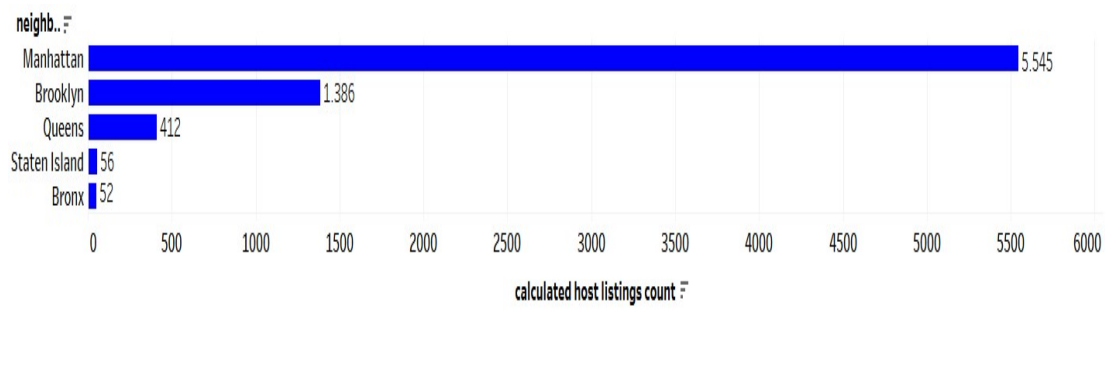
This bar graph shows that amount of listing per host in US neighborhoods. Also, no loud music in these neighborhood groups. I think loud music can be annoying for many people and they want to have information about the music level before they go. Therefore, I show the just limited music rooms. This graph sorted from most calculated host listings count to least. So, Manhattan has the most calculated host listings count and its value is 5.545. On the other side, Bronx has the lowest calculated host listings count and its value is 52.

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