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AGENDA

Objective

Background

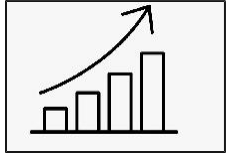
Key findings

Recommendations

Appendix:

- *Data sources*
- *Data methodology*
- *Data model assumptions*

OBJECTIVE



To Provide insight into the current market situation



Enhance our understanding of property and host acquisition, operation , and customer preferences



Provide early recommendation to our marketing and operation team

BACKGROUND

For the past few months, Airbnb has seen a major decline in revenue.



Now that the restrictions have started lifting and people have started to travel more.



Airbnb wants to make sure that it is fully prepared for this change.

THE PROBLEMS WITH SHARED ROOMS



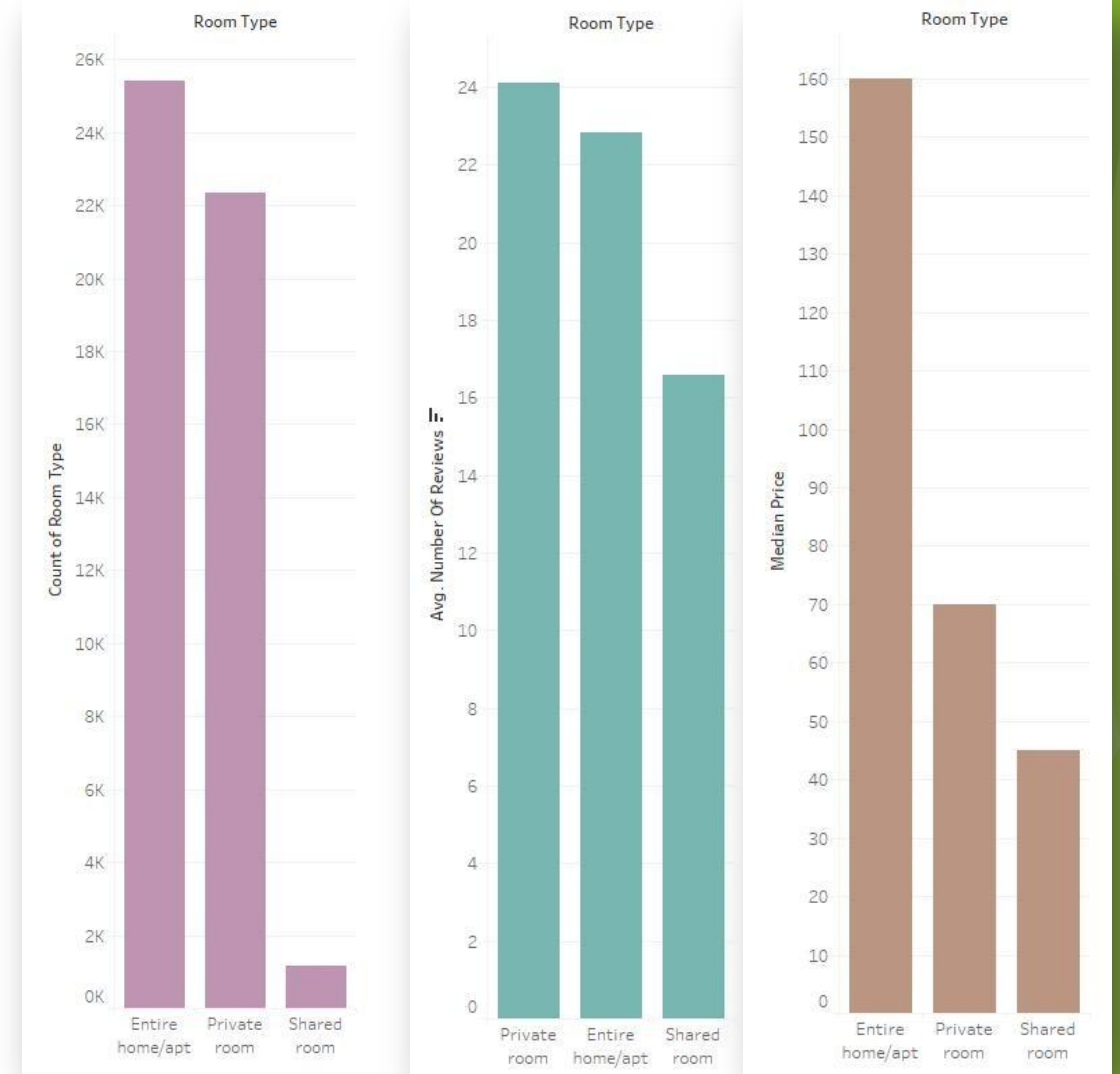
Shared rooms only account for 2 % of the total types of rooms.

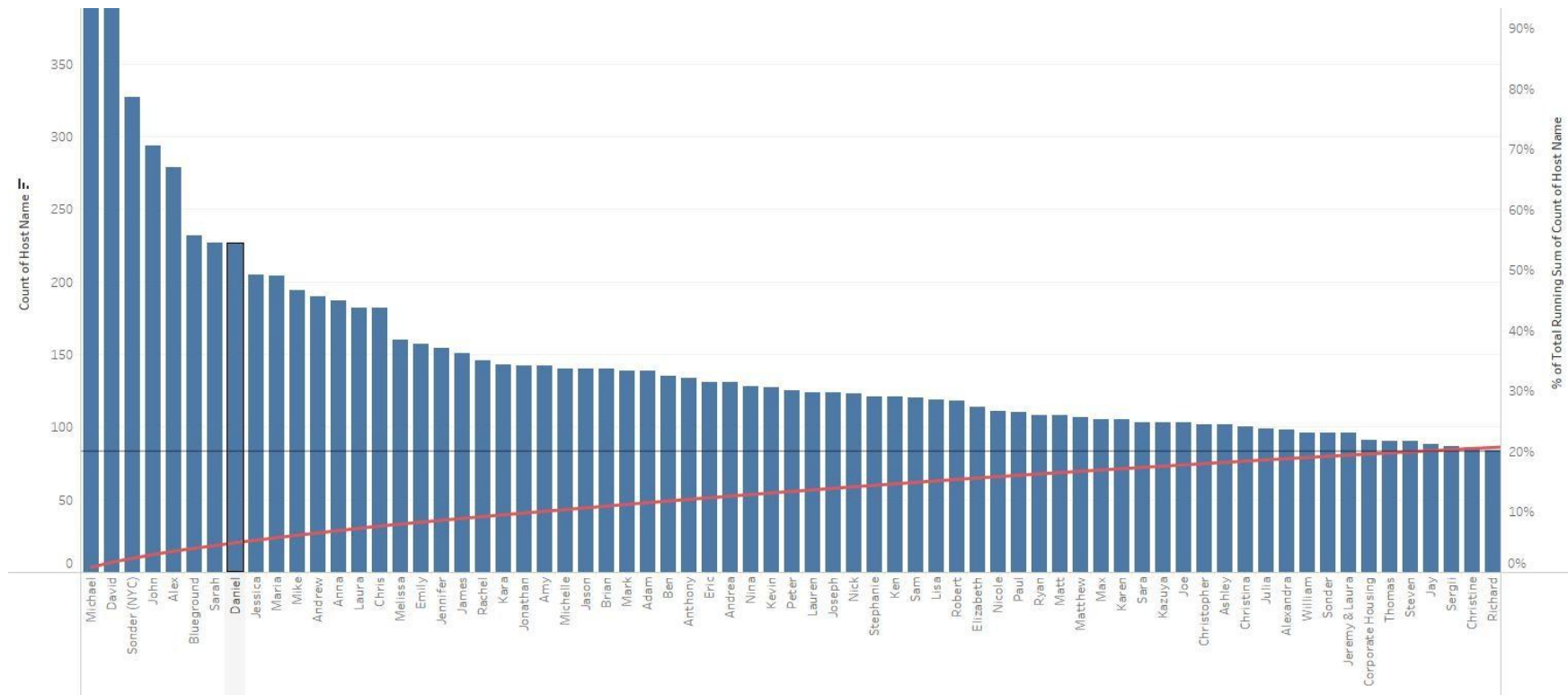


They are less likely to be reviewed.



Median rates for shared rooms are significantly lower.

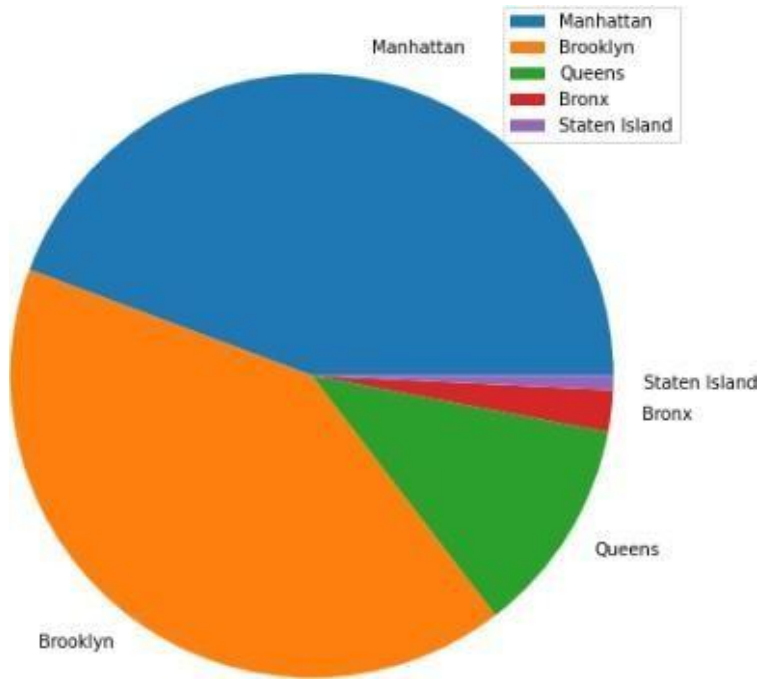




EVERY HOST MATTER

The top 60 hosts only make up 20% of the total host count!

MOST CONTRIBUTING NEIGHBORHOODS

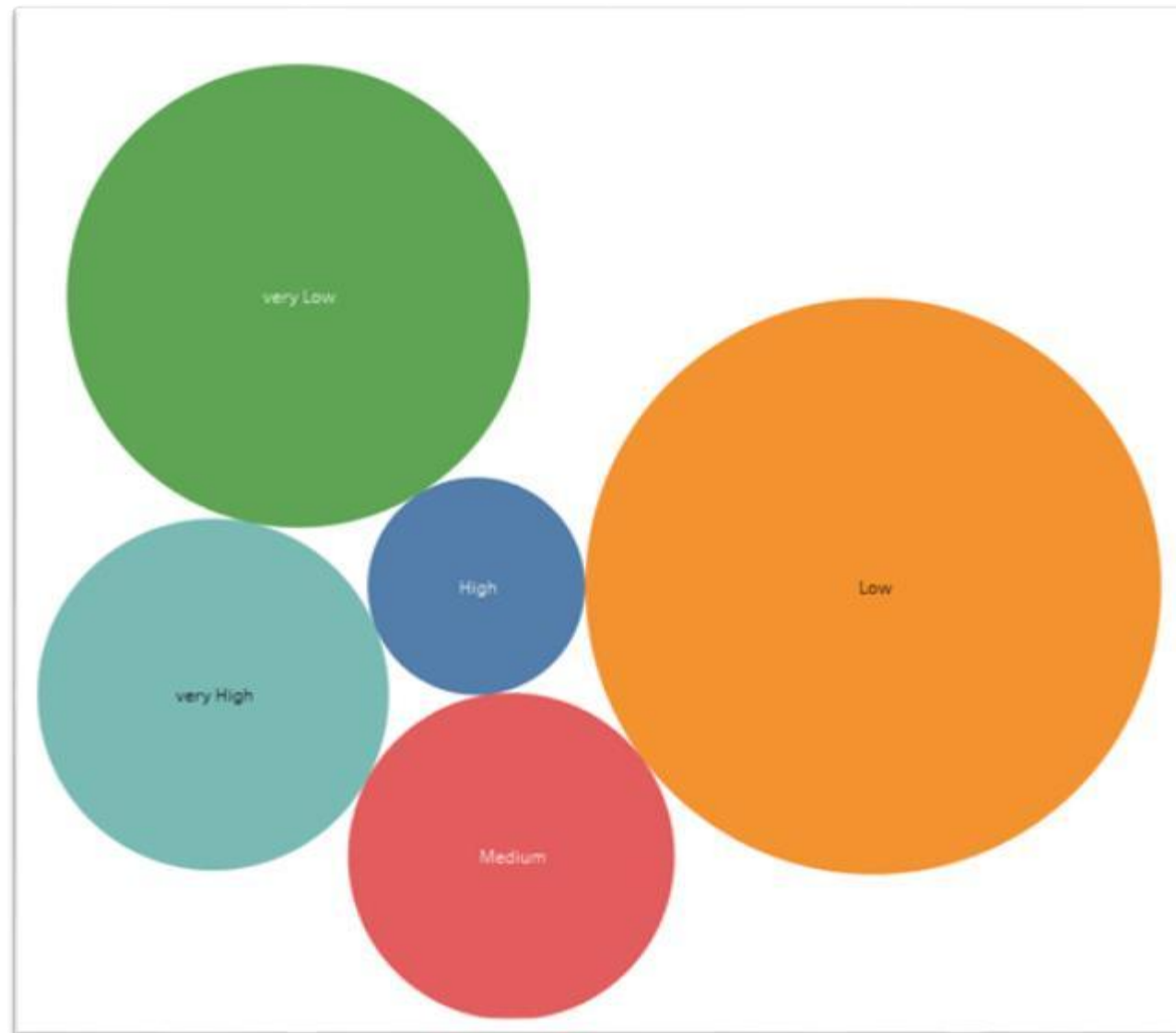


NEIGHBORHOOD GROUP
PERCENTAGES

Manhattan	44.301053
Brooklyn	41.116679
Queens	11.588097
Bronx	2.231312
Staten Island	0.762859

- **81 % of the listing are *Manhattan* and *Brooklyn* neighborhood group**
- ***Staten Island* has the lowest contribution.**

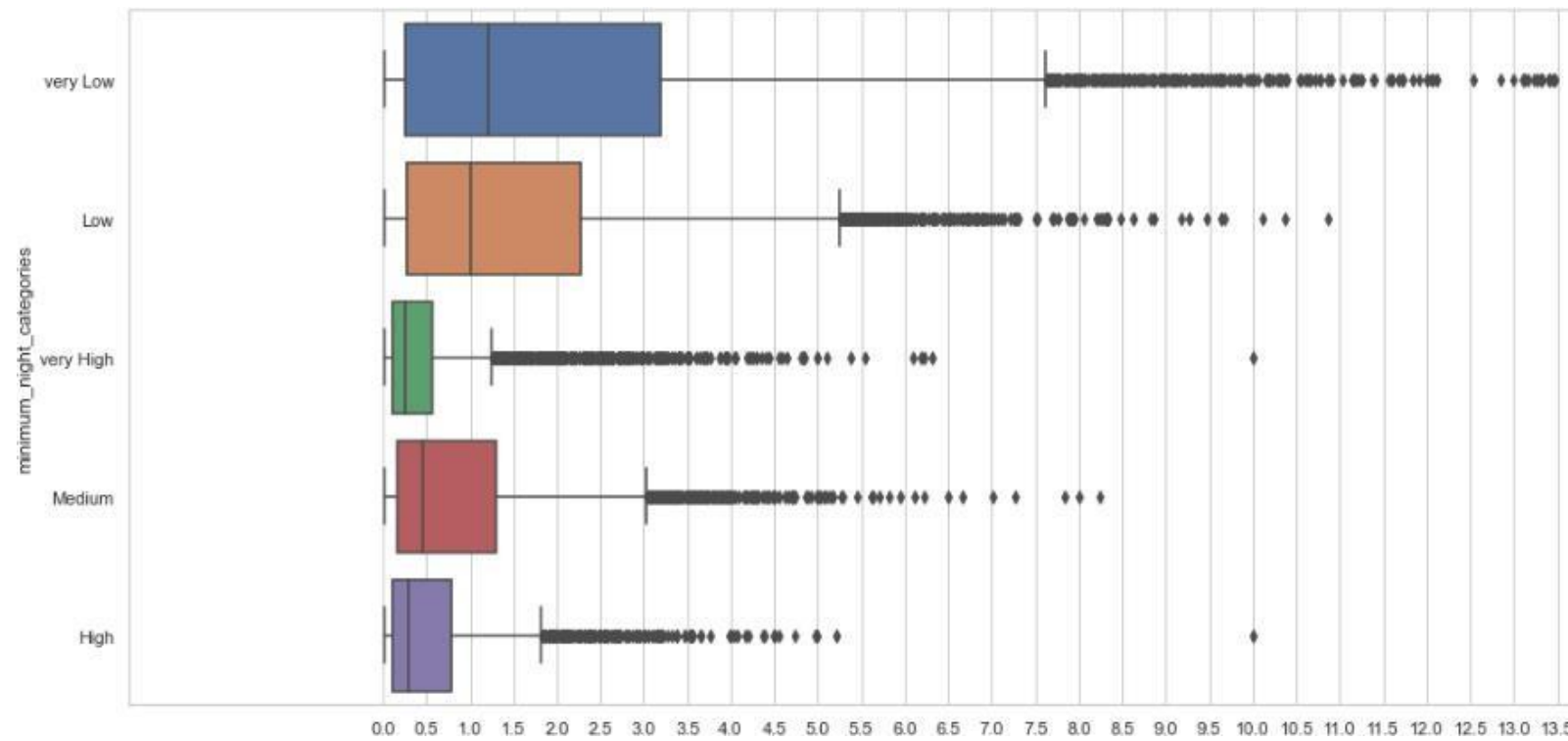
MINIMUM NIGHT CATEGORIES



**MINIMUM NIGHT CATEGORY
PERCENTAGES**

Low	40.280192
very Low	26.014930
very High	14.997444
Medium	12.960425
High	5.747009





- *Low category in minimum night feature contributes 40 %*



EFFECT OF MINIMUM NIGHT ON REVIEWS

Customers are more likely to leave reviews for lower number of minimum nights.

CONCLUSION & RECOMMENDATIONS

-  • Shared rooms need to be *inspected* upon.
-  • The *cumulative contribution* of all hosts is better than a few hosts doing well.
-  • More than 80 % of the listing are *Manhattan* and *Brooklyn* neighborhood group
-  • Minimum nights threshold should be on the *lower side* to make properties more customer-oriented

APPENDIX - DATA SOURCES

► *The columns in the dataset are self-explanatory. You can refer to the diagram given below to get a better idea of what each column signifies.*

Column	Description
id	listing ID
name	name of the listing
host_id	host ID
host_name	name of the host
neighbourhood_group	location
neighbourhood	area
latitude	latitude coordinates
longitude	longitude coordinates
room_type	listing space type
price	
minimum_nights	amount of nights minimum
number_of_reviews	number of reviews
last_review	latest review
reviews_per_month	number of reviews per month
calculated_host_listings_count	amount of listing per host
availability_365	number of days when listing is available for booking

APPENDIX -DATA METHODOLOGY



*CONDUCTED A
THOROUGH ANALYSIS
OF NEWYORK AIRBNBS
DATASET.*



*CLEANED THE DATA
SET USING PYTHON.*



*DERIVED THE
NECESSARY FEATURES.*



*USED GROUP
AGGREGATION, PIVOT
TABLE AND OTHER
STATISTICAL METHODS.*



*CREATED CHARTS AND
VISUALIZATIONS USING
TABLEAU.*

APPENDIX - DATA ASSUMPTIONS

Categorical Variables:

- room_type
- neighbourhood_group
- neighbourhood

Continous Variables(Numerical):

- Price
- minimum_nights
- number_of_reviews
- reviews_per_month
- calculated_host_listings_count
- availability_365
- Continous Variables could be binned in to groups too

Location Variables:

- latitude
- longitude

Time Varibale:

- last_review