



Data Storytelling Case Study Presentation – II

Acquisitions, Operations, and User
Experience

By

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Agenda

- Objective
- Background
- Key findings
- Recommendations
- Appendix:
 - Data sources
 - Data methodology
 - Data assumptions

Objective

- Acquisition of the best properties in Newyork
- Optimal price negotiation, and negotiating the services
- Optimising the order of property listings in certain neighbourhoods and cities

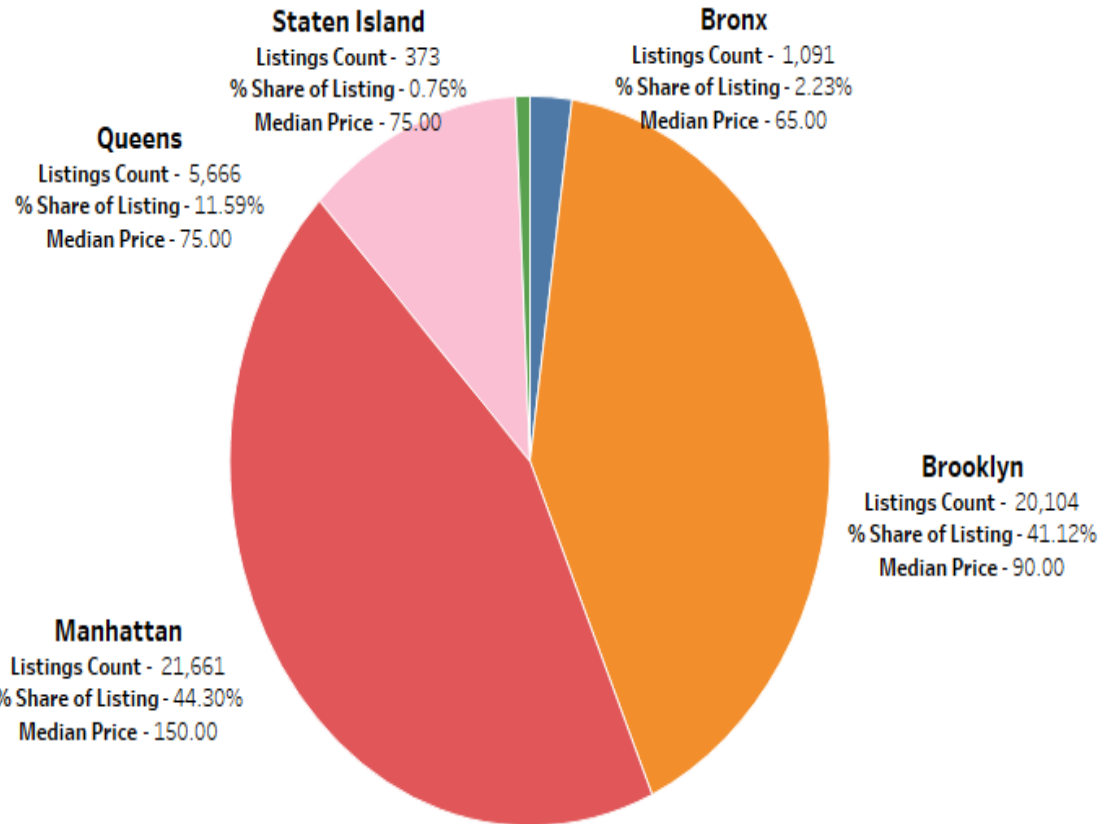
Background

- For the past few months, Airbnb has seen a major decline in revenue. due to Covid pandemic
- Recently most of countries have lifted Covid restrictions and people have started to travel more
- Airbnb wants to make sure that it is fully prepared for this change.

Manhattan and Brooklyn have major share of Listings



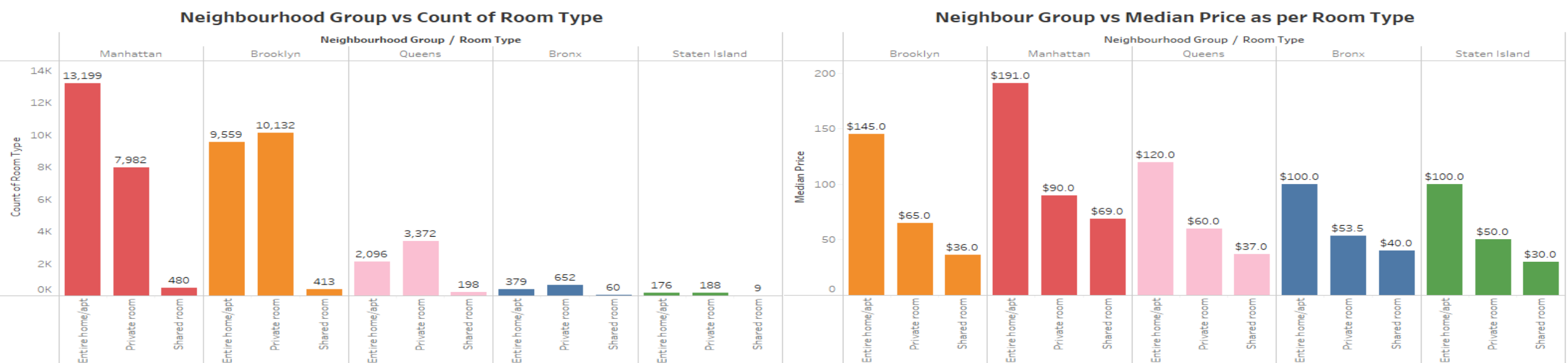
Neighbourhood Groupwise Listing Count vs Median Price



- Almost 85 % of the listings are from Manhattan and Brooklyn
- Even the Median Price of the listings is on the higher side of these two boroughs of Newyork
- The high median price of Manhattan Borough may be because of its proximity to Mainland

Entire Home/Apt and Private Room are more preferred

- The Location is a major attribute in having more number of listings and a higher median price
- Hence, Manhattan borough has a higher median price level and more number of listings for every room type with respect to other boroughs
- Except Brooklyn, Entire Home/Apt are highly priced than other room types



Recommendations

- Concentrate on increasing the listings in Staten Island and the Bronx where the listings are less
- Acquire more properties in Manhattan and Brooklyn as median prices are high in these boroughs
- Market the entire home/apt to customers as that can generate more revenue

Appendix – Data Sources

- We were provided with a New York Airbnbs Dataset
 - The data dictionary consists

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

- We have done an in-depth analysis of the data sets. The process included:
 - Cleaning the data by removing the null values of some columns with median values
 - Outliers were not dealt with as that did not affect our analysis (as during visualizations we have taken median where outliers were found)
 - The cleaning was conducted in Python and the visualisations were done in Tableau

Appendix – Assumptions

- There were certain gaps in the data due to data unavailability hence, we assumed:
 - That number of reviews shows the preference of the customers
 - Not all customers send reviews
 - Sum of Price is assumed to the revenue generated for the getting valuable insights

Thank You