Wireframe Document

New York Airbnb Analysis

Revision Number - 1.2

Last Date of Revision - 15/05/2025

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Document Control

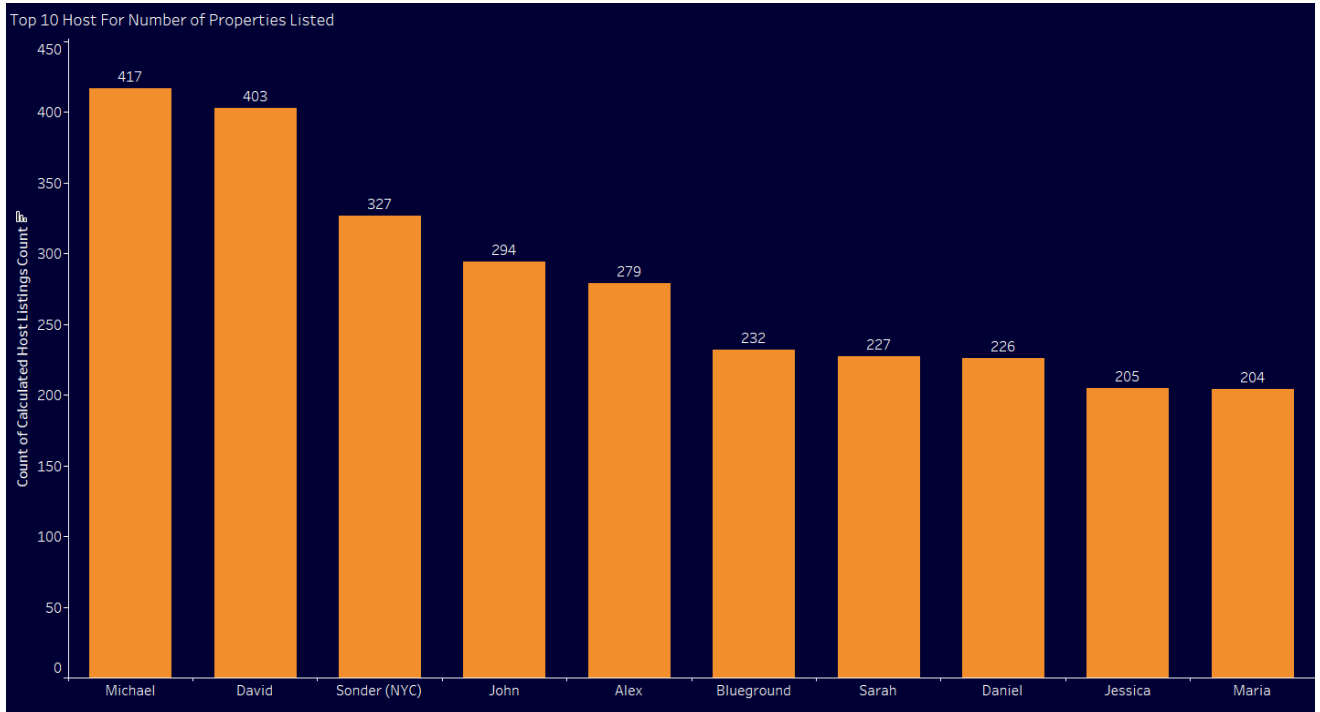| Date	Version	Description	Author
02/05/2025	1.0	Introduction, Problem Statement	Shubham tembhurne
02/05/2025	1.1	Dataset Information, Vi Architecture Description	Shubham tembhurne
02/05/2025	1.2	Final Revision	Shubham tembhurne

We Performed Exploratory Data Analysis on Jupyter Notebook and then created a Tableau Desktop Dashboard.

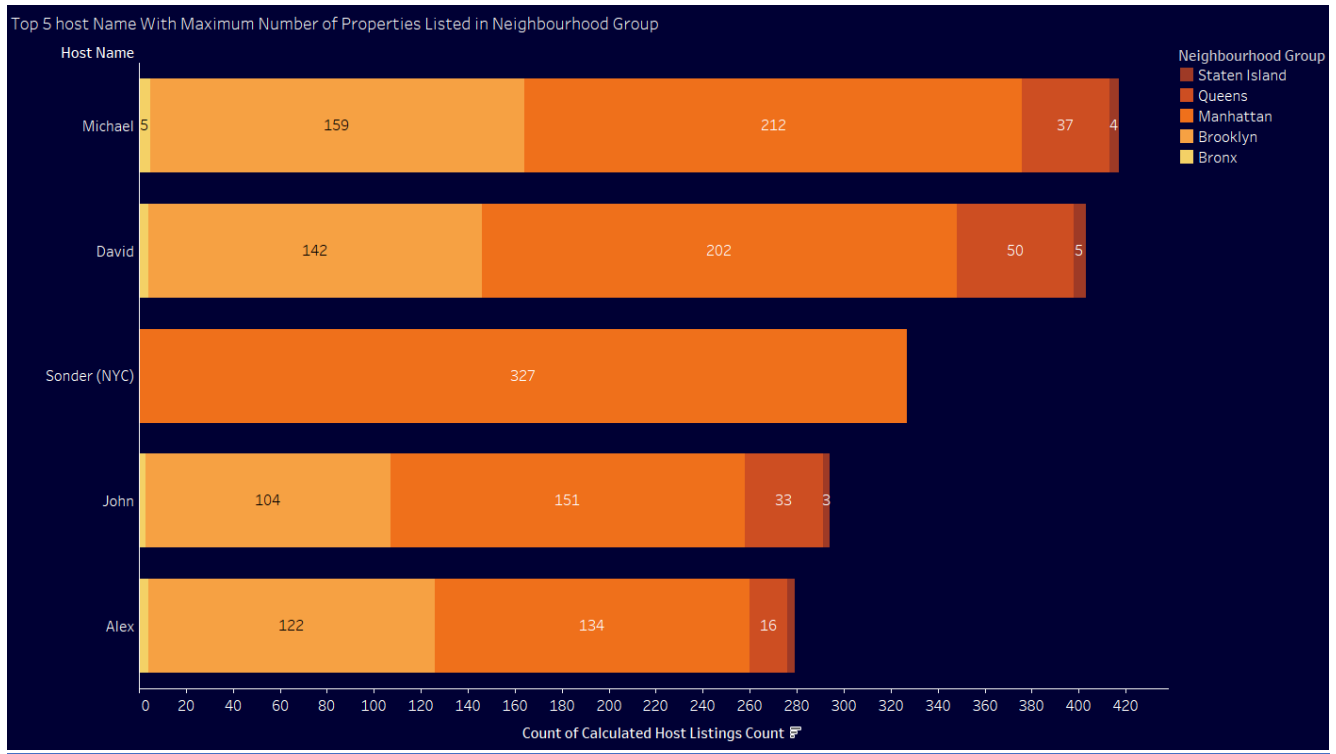**1. In which Neighborhood group there is maximum number of properties listed?**

> ➢ The maximum number of properties in neighborhood group is Manhattan with 44.40% of property count.

2. Which host has maximum number of properties listed?

Top 10 Host For Number of Properties Listed

➢ The host has maximum number of properties listed are Michael, David, Songer (NYC), John, Alex, Blueground, Sarah, Daniel, Jessica, Mari

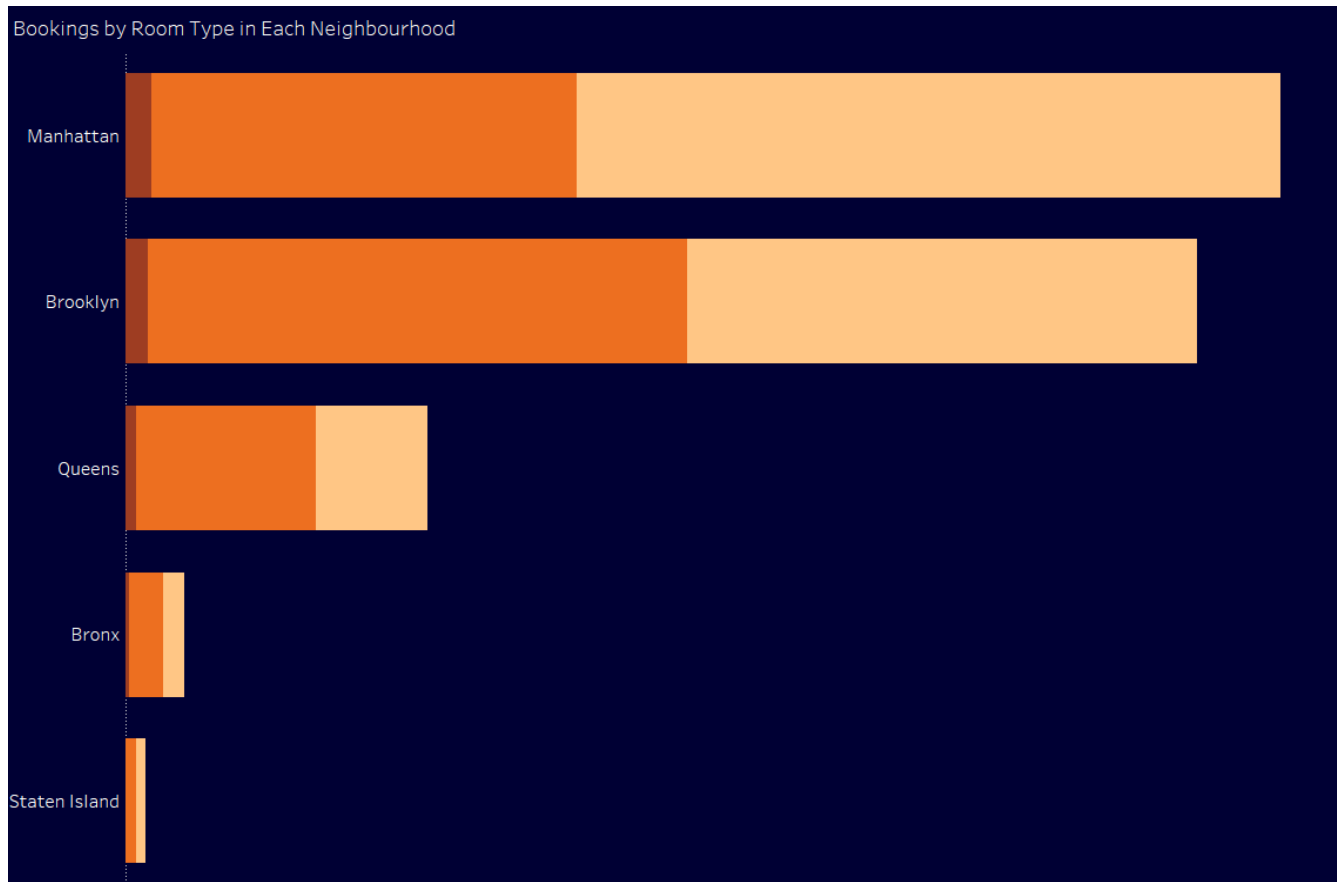**3. Which host has maximum properties listed in neighborhood groups having maximum properties listed?**

Top 5 host Name With Maximum Number of Properties Listed in Neighbourhood Group

Host Name						Neighbourhood Group
						Staten Island
						Queens
						Manhattan
						Brooklyn
						Bronx

Michael 5 | 159 | 212 | 37 | 4

David | 142 | 202 | 50 | 5

Sonder (NYC) | 327

John | 104 | 151 | 33 | 3

Alex | 122 | 134 | 16

Count of Calculated Host Listings Count

➢ The host which has the maximum properties listed is Sonder (NYC) in Manhattan.

4. What is the average price in different properties listed?

Average Price by Room Type

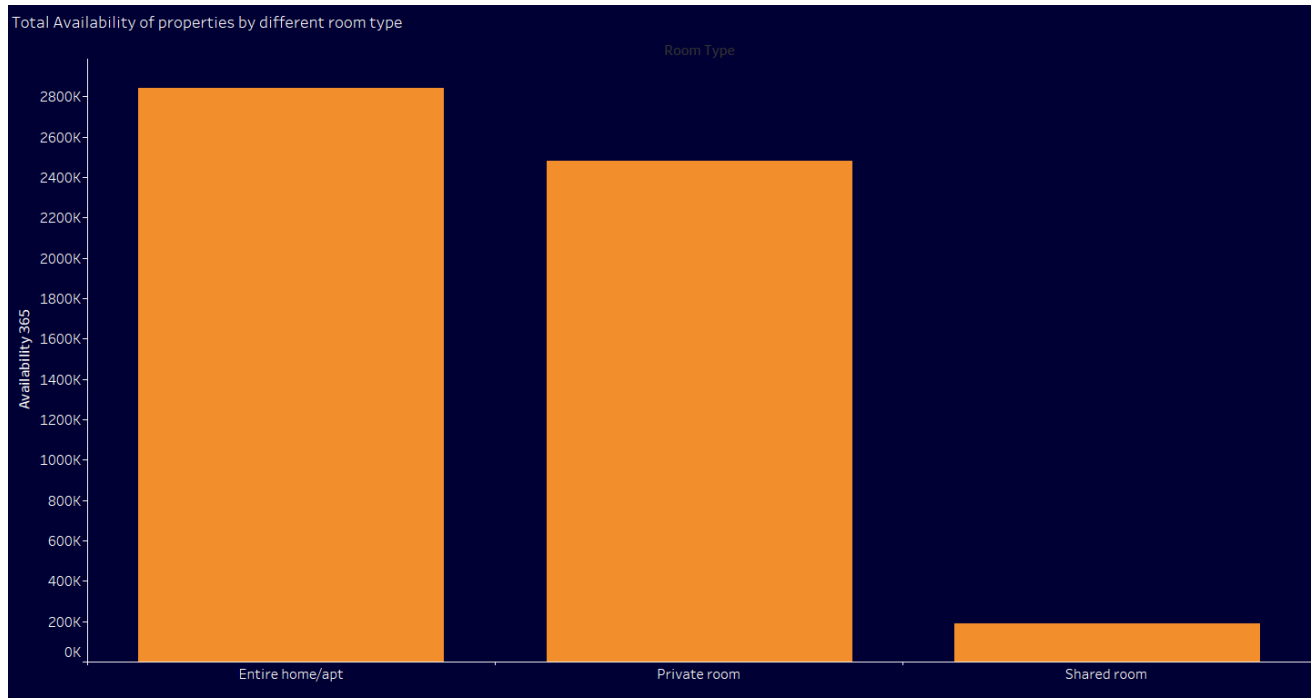| Room Type	
Entire home/apt	$211.8
Private room	$89.8
Shared room	$70.1

➢ The Average price for Entire home/apt is $211.8, Private room - $89.8 and $70.1
➢ Entire home/apt is most expensive on average.

5. What is the most preferred room type in every neighborhood groups?

Bookings by Room Type in Each Neighbourhood

➢ Entire home/apt is most common in Manhattan and Brooklyn, while private rooms are also popular.

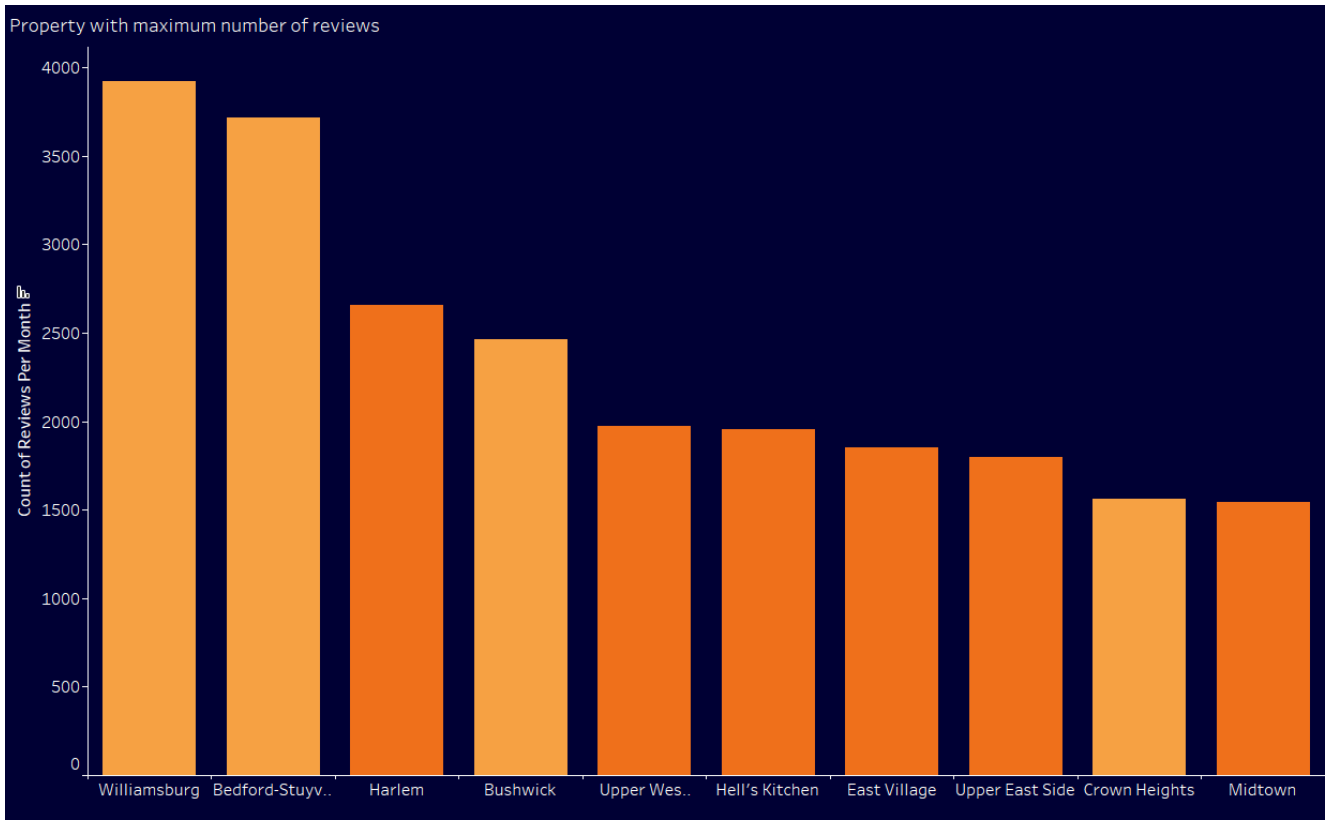**6. Total availability of properties having different room type?**

➤ The Entire home/pt have the higher total availability.

7. Which one is the busiest host?

Busiest Host

Dona
629
Room near JFK Queen Bed

> ➢ Dona's property "Room near JFK Queen Bed" has the most reviews.

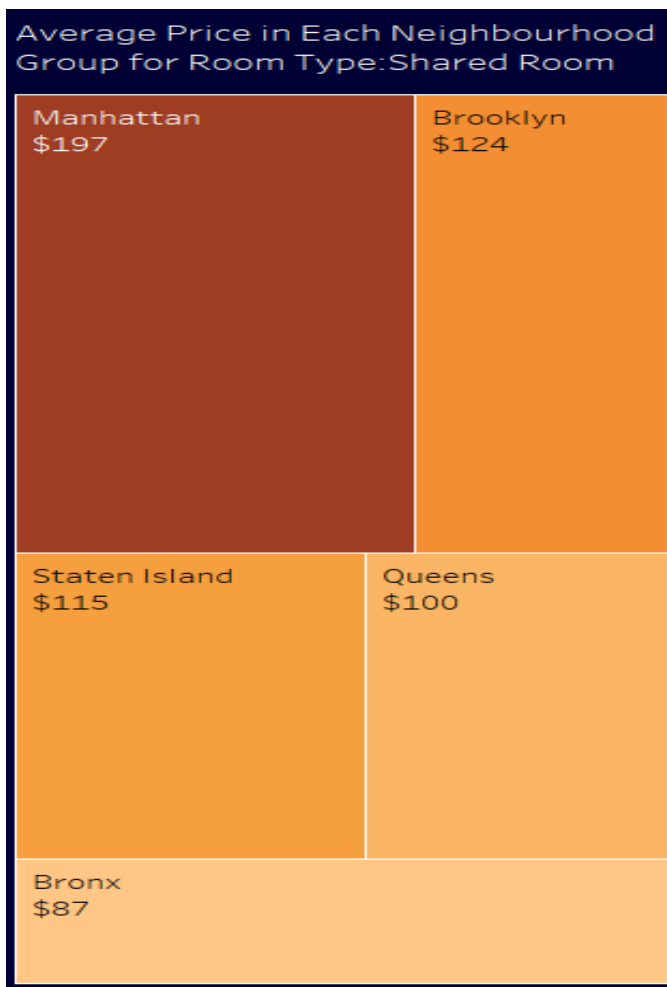## 8. Which property has maximum number of reviews?

Property with maximum number of reviews

> ➢ Williamsburg in Brooklyn have the highest number of reviews.

9.What are the average reviews per month by room type and neighborhood group?

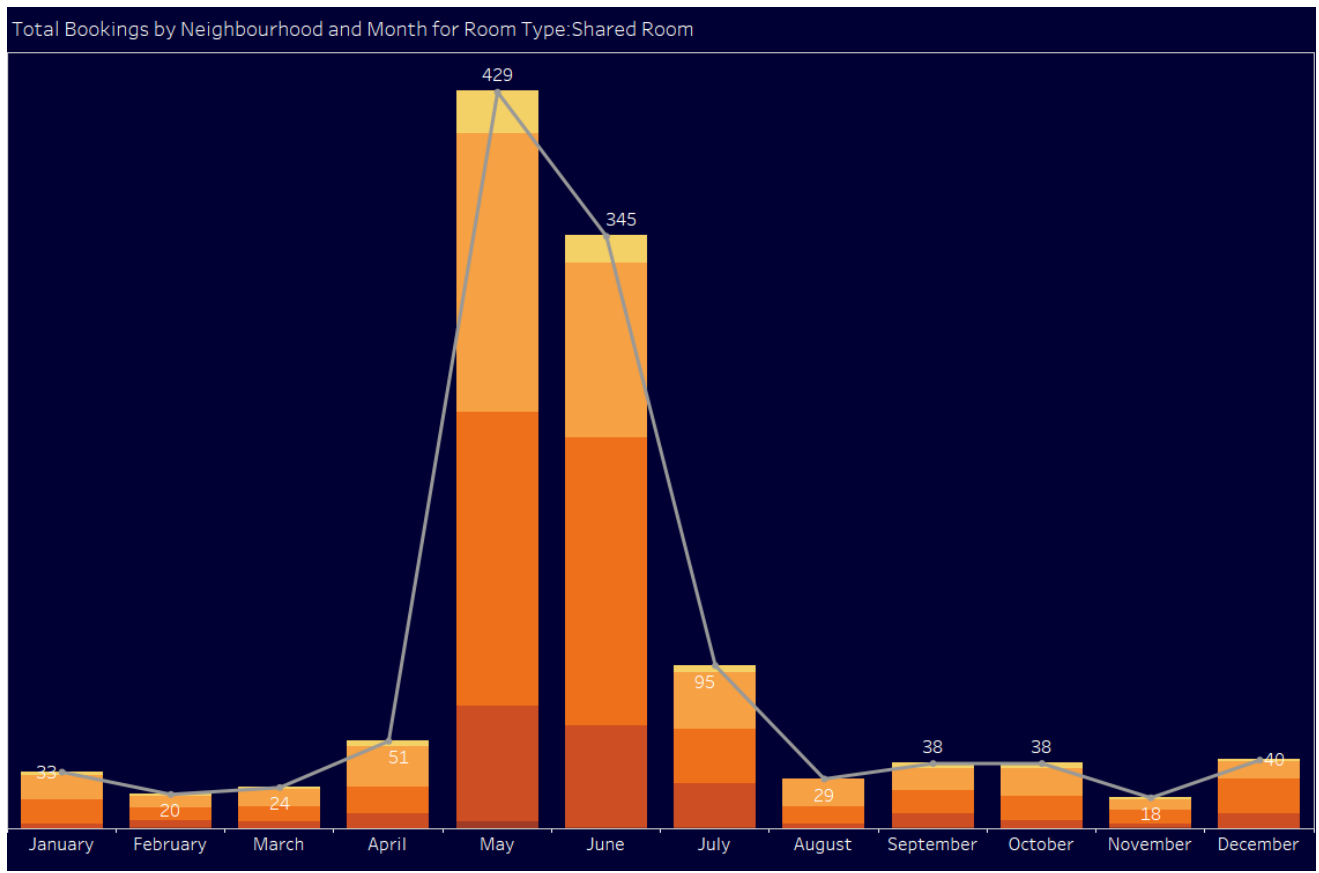| Average Reviews per Month by Room Type And Neighbourhood Group					
	Bronx	Brooklyn	Manhattan	Queens	Staten Isl..
Entire home/apt	1.9577	1.2304	1.0384	1.7566	1.8743
Private room	1.4607	1.1427	1.2962	1.6960	1.5481
Shared room	1.1728	0.9664	1.5156	1.3364	1.0600

> ➢ We can see almost 1 or 2 reviews per month in different room type and with respective to neighborhood group

10.What is the average price for each neighborhood group for room type shared room?

Average Price in Each Neighbourhood Group for Room Type:Shared Room
Manhattan $197
Brooklyn $124
Staten Island $115
Queens $100
Bronx $87

➢ The Average price starts from Manhattan ($197) highest in all and Brooklyn ($124), Staten Island ($115), Queens ($100), Bronx ($87) in each neighborhood group for room type shared room.

11. What are the total bookings by neighborhood and month for room type shared room?

Total Bookings by Neighbourhood and Month for Room Type:Shared Room

➢ We have the highest number of bookings in the month of May and June for room type shared room.
➢ Manhattan have maximum booking in May and June month, 171 in May and 167 in June.
➢ Staten island have the least booking in may month ,4 and none in June.

12.What are the top 10 host by reviews?

Top 10 Host by Reviews			
Host Name	Neighbourhood	Avg. Price	Reviews
Arnie	Sunset Park	$35	1
Catherine	Long Island City	$90	21
Eric	Clinton Hill	$69	1
Jennifer	Midtown	$162	46
John	Bensonhurst	$76	55
	Gravesend	$114	41
	Kensington	$149	9
Letha M.	Bedford-Stuyvesant	$60	2
Loli	Bedford-Stuyvesant	$59	390
Nataraj	Fresh Meadows	$59	4
Tasos	Williamsburg	$95	1
Teedo	Bedford-Stuyvesant	$182	27

> ➢ Arnie, Catherine, Eric, Jennifer, John, Letha M, Loli, Nataraj, Tasos, Teedo are the top host with maximum reviews.