

AIRBNB LISTINGS

OVERVIEW

For your next project, you will be working with a dataset on Airbnb listings in New York City. The dataset includes variables like Id, Host Id, Host name, Neighbourhood Group, and Host identity verification. Your task is to perform exploratory data analysis and visualization using Power BI. The goal is to generate insights that can help understand the distribution of listings and prices across different locations and neighborhoods in New York City.

Here are the business questions you should aim to answer:

1. **Which Neighbourhood Group has the highest number of listings?**
 - **Guide:** Use the "Neighbourhood Group" column to create a bar chart that displays the count of listings for each neighborhood group. Sort the chart in descending order to easily identify the group with the highest number of listings.
2. **What is the average price of Airbnb listings in each Neighbourhood Group?**
 - **Guide:** Calculate the average price by creating a measure or using the "Price" column. Then, create a bar chart or table to visualize the average prices for each neighborhood group.
3. **Is there a correlation between the number of bedrooms and the price of listings?**
 - **Guide:** Create a scatter plot with "Number of Bedrooms" on the x-axis and "Price" on the y-axis. Analyze the trend to determine if there is a positive or negative correlation.
4. **Which types of properties (e.g., entire home/apt, private room) are the most common in each Neighbourhood Group?**
 - **Guide:** Use the "Property Type" and "Neighbourhood Group" columns to create a stacked bar chart or a matrix that shows the distribution of property types within each neighborhood group.
5. **How does the verification status of hosts (verified vs. unconfirmed) impact the number of listings they manage?**
 - **Guide:** Create a bar chart comparing the count of listings between verified and unconfirmed hosts. Use the "Host identity verification" column for this analysis.
6. **Which hosts have the highest number of listings, and in which Neighbourhood Group are they concentrated?**
 - **Guide:** Use the "Host Id" and "Neighbourhood Group" columns to create a table or bar chart that highlights the hosts with the most listings and the neighborhoods where their listings are concentrated.
7. **Are there any outliers in the price distribution of Airbnb listings in New York City?**
 - **Guide:** Create a box plot of the "Price" column to identify any outliers. Investigate these outliers to see if they are concentrated in specific Neighbourhood Groups or property types.

Submission Guidelines

- **Video Presentation:** After completing the analysis, you need to create a video presentation that is at least 2 minutes long. This video should cover your key findings and insights.
- **LinkedIn Submission:** Upload the video to your LinkedIn account. Include a link to the GitHub repository where you have uploaded the dataset.
- **Deadline:** The deadline for submission is **4th September 2024**.