AIRBNB DATA ANALYSIS

OBJECTIVE

LEARN HOW TO DEVELOP AIRBNB DATA ANALYSIS DASHBOARD DEVELOPMENT PROJECT IN POWER BI FOR IDENTIFYING WHO IS THE TOP EARNERS, IS THERE ANY RELATIONSHIP BETWEEN MONTHLY EARNING AND PRICES. ALSO CREATE A HIDDEN FILTER WITHIN THE DASHBOARD FIND KEY METRICS AND FACTORS AND SHOW THE MEANINGFUL RELATIONSHIPS BETWEEN ATTRIBUTES.

ACKNOWLEDGEMENTS

- PROJECT TITLE :- AIRBNB DATA ANALYSIS
- TECHNOLOGIES :- BUSINESS INTELLIGENCE
- PROJECT DIFFICULTIES LEVEL :- ADVANCED

ABOUT THE PROJECT

AIRBNB IS AN ONLINE MARKETPLACE THAT CONNECTS PEOPLE WHO WANT TO RENT OUT THEIR PROPERTY WITH PEOPLE WHO ARE LOOKING FOR ACCOMMODATIONS IN SPECIFIC LOCALES. AIRBNB OFFERS PEOPLE AN EASY, RELATIVELY STRESS-FREE WAY TO EARN SOME INCOME FROM THEIR PROPERTY.

THESE DATA CAN BE USED FOR VARIOUS TYPES OF ANALYSIS DEPENDING ON THE SCOPE OF THE SPECIFIC WORK.

THE DATA-SET CONTAINS INFORMATION ABOUT THE HOSTS, GEOGRAPHICAL AVAILABILITY.

3119K
Revenue

18,723
No. of Rooms

12
Min_Price

6000
Max_Price

167
Average price

15,943
No. of host

July
Month

Bedrooms

0 1 2 3 4 5

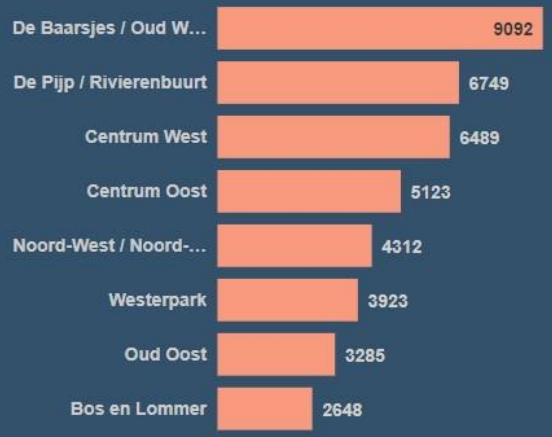
16.74
Average reviews

532
Max reviews

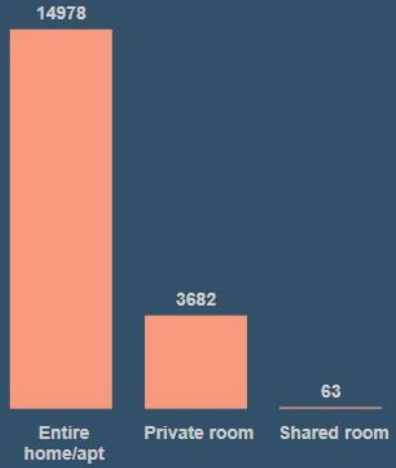
55K
Total Accomodates

3.30
Average satisfaction

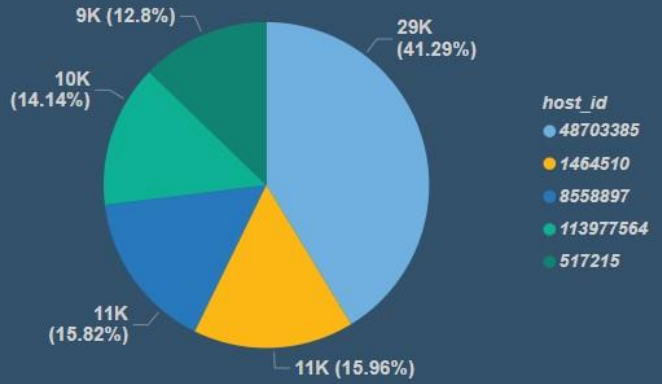
No. of Accomodates in Neighborhood



Room Type



Top 5 Earners (Host_id)



ARCHITECTURE

Dataset

Exploratory Data Analysis (EDA)

Data Preprocessing

Dashboard

APPROACH

THE TOOL USED IN THIS PROJECT IS POWER BI.

-THE DATA WAS DOWNLOADED VIA THE LINK PROVIDED.

-AFTER UPLOADING THE DATA IN POWER BI PUBLIC, THE COLUMNS AND DETAILS ABOUT THE DATA WAS EXPLORED.

-ALSO CREATE A HIDDEN FILTER WITHIN THE DASHBOARD.

DATASET INFORMATION

- AIRBNB DATASET CONTAINS A WIDE RANGE OF DATA FOR COUNTRIES AROUND THE WORLD, INCLUDING BOTH DEVELOPING AND HIGH-INCOME COUNTRIES.

- THIS DATA FILE INCLUDES ALL NEEDED INFORMATION TO FIND OUT MORE ABOUT HOSTS, GEOGRAPHICAL AVAILABILITY.

DATASET INFORMATION

THE AIRBNB DATA ANALYSIS DATASET INCLUDES A RANGE OF ATTRIBUTES. SOME OF THE KEY ATTRIBUTES INCLUDED IN THE DATASET ARE:

- HOST NAME
- LOCATION
- NEIGHBOURHOOD
- PRICE
- REVIEW SCORE AND
- NUMBER OF REVIEWS.

Q & A

Q1) WHAT IS THE SIZE OF YOUR DATA ?

- THE SIZE OF THE DATA IN TERMS OF MB IS 3.99, WITH 299536 ROWS AND 20 COLUMNS.

Q2) WHAT ARE THE DATA TYPE ?

- THE DATA WAS THE COMBINATION OF NUMERICAL AND CATEGORICAL VALUES.

Q3) WHERE DID YOU GET THE DATA ?

- THE DATA WAS PROVIDED BY INEURON.
- HTTPS://DRIVE.GOOGLE.COM/DRIVE/FOLDERS/1ANKGTAT0PDP2R86IXFKV9VKYMNSYJJDO?USP=SHARING

Q & A

Q4) WHAT TECHNIQUES WERE YOU USING FOR DATA PRE-PROCESSING?

- REMOVING UNWANTED ATTRIBUTE
- CLEANING DATA AND IMPUTING IF NULL VALUES ARE PRESENT.
- CONVERTING CATEGORICAL DATA INTO NUMERIC VALUES.
- SCALING THE DATA.