PORTFOLIO

Fitri Cahyani

Mathematics Graduate

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ABOUT ME

Here will be displayed information about me.

ABOUT ME

Hai I am Fitri ! ... a Mathematics graduate, which always adds to my experience and knowledge. A well rounded person with interests in Data Analytics and Data Scienties. I am also known as an active student in organizations, I have some knowledge of Data Analytics through the courses I take, and a hard worker who likes to collaborate in diverse environments.

MY EDUCATION

2018 | 2022

UNIVERSITAS DIPONEGORO

Semarang, Indonesia

- Bachelor Degree Mathematics
- GPA : 3.70/4.00

2015 | 2018

SMA N 1 KOTAAGUNG

Lampung, Indonesia

AWARDS

- Bidikmisi Scholarship (2018-2022)
- Presenter The 10 th International Conference on Global Optimization and its Application (2021)
- Funding research from Fakulty of Sains and Mathematics (2021)
- Recipient of funding in the Student Creativity Program (PKM) (2020)
- 2nd of chemistry laboratory skills competition se-Sumbagsel (2017)

PERSONAL DATA

Palace, Date of Birth

Lampung, Sept' 99

Nasionality

Indonesia

Marital Status

Single

WORK EXPERIENCE

2022-Now — **BIMBEL ANTOLOGI**
Private Tutor-Freelancer

2021 — **GLOBAL MILLENNIAL MUN**
Staff Media Sosial-Internship

2019 | 2022 — **BIMBEL ANTUSIAS**
Private Tutor-Freelancer

ORGANIZATION EXPERIENCE

HIMPUNAN MAHASISWA MATEMATIKA — **2020-2021**
Head of Secretary

KESIMA UNIVERSITAS DIPONEGORO — **2020-2021**
Staff Expert

HIMPUNAN MAHASISWA MATEMATIKA — **2019 | 2020**
Staff Secretary

COURSES AND SERTIFICATIONS

RevoU — Data Analytics

- Introduction Data Analyst
- Learn Spreadsheet (Excel), Google Bigquery (SQL), Google Colaboration (Python), Google Data Studio
- Visualization and Insight

Kelas.Work — Data Analyst

- Introduction Data Analyst
- Learn analytics in SQL, Statistic, Exploratory Data Analysis (EDA)
- Visualization
- How to make dashboard

MY SKILLS

Hard Skills: Microsoft Word, Microsoft Powerpoint, Microsoft Excel, Elementary Machine Learning (SQL, Google Collab, Power BI, Google Data Studio)

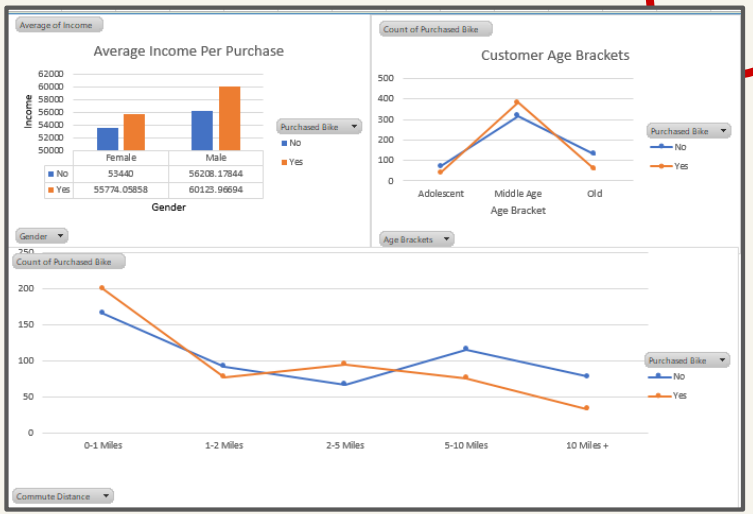
Soft Skills: Analytical Thinking, Professional, Thorough, Problem Solving, Able to learn new things quickly, Leadership, Teamwork, Adapt quickly, and Work under pressure

MY PROJECT

There are two projects that I will show here.

PROJECT 01

In this 01 project I use Microsoft Excel and Pivot Table as a tool to analyze information from bike sales data.



WHAT I DO

STEP 1 List down trends or points that I want to show.

STEP 2 Explore the data and make changes, filter, do the data preparation and cleaning as needed.

STEP 3 Create Dashboard with the insight I got.

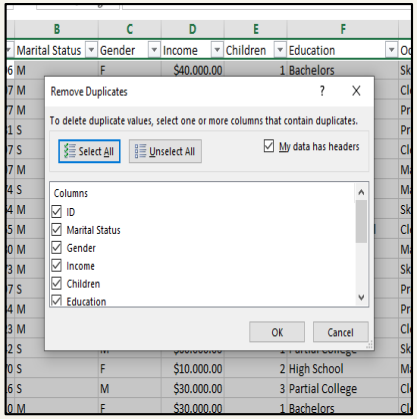
Defining The Problems

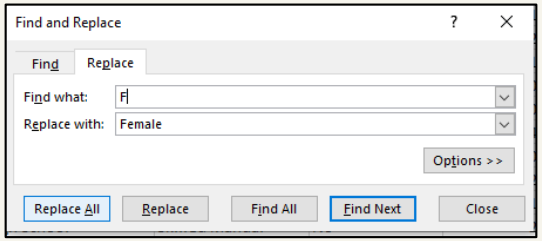
Bike are one type of vehicle that is favored by various groups, ranging from children, teenagers, to the elderly.
For key question I devised are:

1. How is the Average Income Per Purchase?
2. How is Count of bike purchased based on Customer Age Brackets?
3. How is Count of bike purchased based on Commute Distance?

Data Cleaning

- Remove duplicates data
- Replace data
- Add column
- Change data type

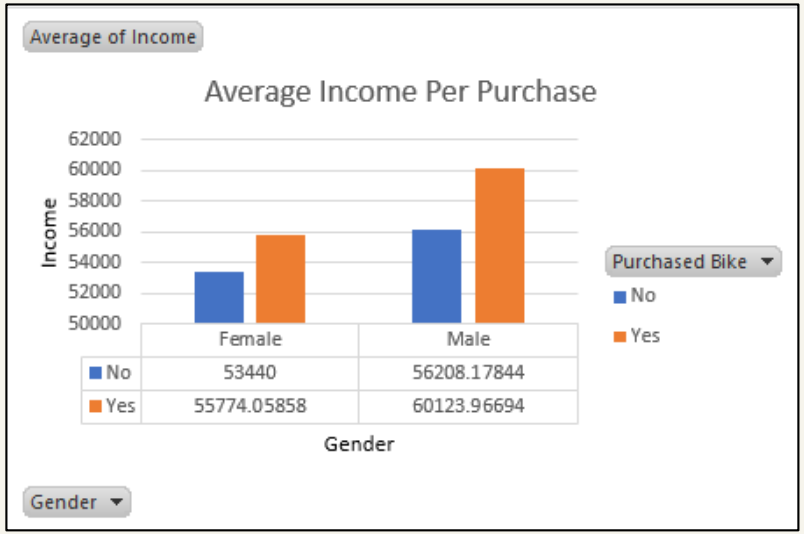




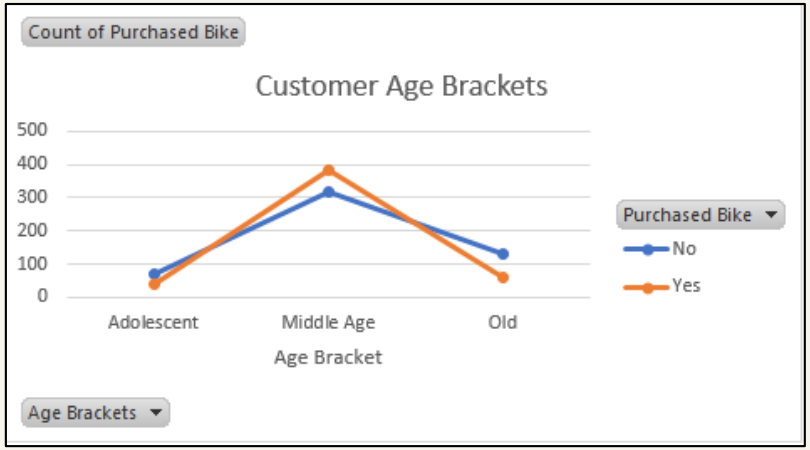
Age	Age Brackets	Purchased Bik
42	=IF(L2>54,"Old",IF(L2>=31,"Middle Age",IF(	
43	L2<31,"Adolescent","Invalid")))	
60		No
41		Yes
36		Yes
50		No
33		Yes
43		Yes
58		No
40		Yes
54		Yes
36		No
55		No

Visualization with Insight

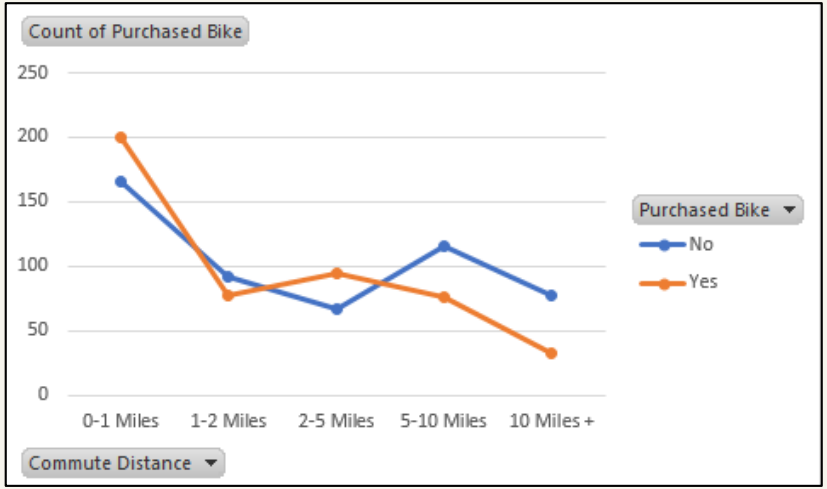
We can see from the chart below, for the average income per bikepurchase. Based on bikepurchases, the average income for men is $60,123 and for women the average income is $55,774. Meanwhile, based on not buying a bicycle, the average income for men is $56,208 and for women the average income is $53,440.



From the chart, we can see that the Count of bikepurchases is based on the age of the customer. For the adolescent age period the Count of bike purchased is 39, for the middle age the Count of bike is 383, and for the old the Count of bike is 59.



From the chart we can see, for the count of bike purchases based on the commute distance. For a distance of 0-1 miles the Count of bikepurchases is 200, a distance of 1-2 miles the Count of bikepurchases is 77, a distance of 2-5 miles the Count of bikepurchases is 95, a distance of 5-10 miles the Count of bikepurchases is 76, and for a distance of 1- 2 miles the amount of bikepurchase is 33.

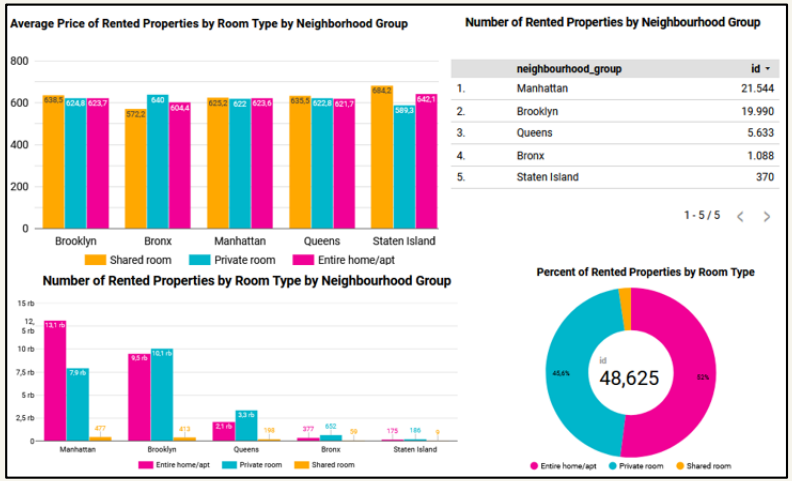


Conclusion

1. The average income per purchase is highest for those who are male.
2. Based on the age of the customer, the highest count of bikepurchases was made by the middle age group
3. The count of bike purchases is based on commute distance, with a commute distance of 0-1 miles, the most purchases of bike are 200 bike.

Full excel : please click here

PROJECT 02



In this 02 project I use Google Colaboratory (Python), Google Bigquery (SQL), and Google Data Studio (GDS) to analyze information from Airbnb data.

WHAT I DO

STEP 1 List down trends or points that I want to show.

STEP 2 Explore the data and make changes, filter, do the data preparation and cleaning as needed.

STEP 3 Create visualization with the insight I got.

Defining The Problems

For key question I devised are:

1. What is the AirBnB largest segment of rented properties?
2. How many properties are there in each borough?
3. How is the rental price distribution for each room type?

Data Cleaning

Things to do in data cleaning:

- Change data type
- Remove duplicated data
- Remove empty data
- Remove outliers
- Remove unnecessary data

```
airbnb.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 48625 entries, 0 to 48624
Data columns (total 17 columns):
 #   Column                          Non-Null Count  Dtype
---  ------                          --------------  -----
 0   Unnamed: 0                      48625 non-null  int64
 1   id                              48625 non-null  float64
 2   host id                         48625 non-null  float64
 3   host name                       48625 non-null  object
 4   neighbourhood group             48625 non-null  object
 5   neighbourhood                   48609 non-null  object
 6   lat                             48617 non-null  float64
 7   long                            48617 non-null  float64
 8   room type                       48625 non-null  object
 9   price                           48489 non-null  float64
 10  minimum nights                  48341 non-null  float64
 11  number of reviews               48525 non-null  float64
 12  last review                     38603 non-null  object
 13  reviews per month               38615 non-null  float64
 14  calculated host listings count  48513 non-null  float64
 15  availability 365                48354 non-null  float64
 16  Lat, Long                       48625 non-null  object
dtypes: float64(10), int64(1), object(6)
memory usage: 6.3+ MB
```

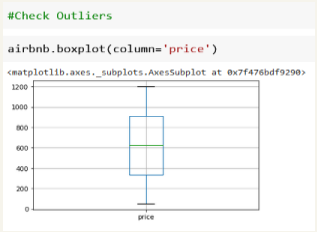
Full data cleaning with Google Colab:
click here

```
[10] airbnb['last review']=pd.to_datetime(airbnb['last review'], format='%m/%d/%Y')
```

```
[7] airbnb=airbnb.drop_duplicates()
```

```
airbnb[~airbnb['host name'].isna()]
```

```
#Check Outliers
airbnb.boxplot(column='price')
```



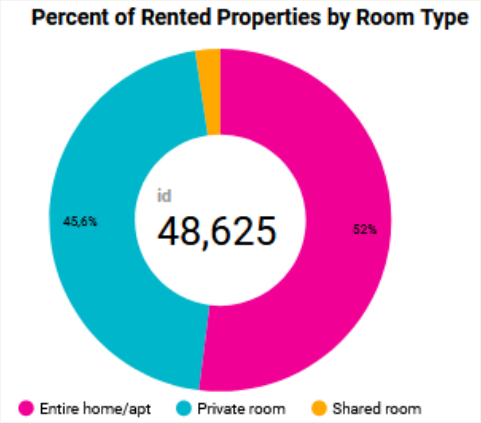
- Add column with Google Bigquery

RUN SAVE SHARE SCHEDULE MORE

```
select * ,
case when price <= 50 then 'Cheap (<=50)'
  when price > 50 and price <= 150 then 'Moderate (50-150)'
  when price > 150 then 'Expensive (>150)'
end as price_category,
case when last_review is null then 'No Review'
  else 'With Review'
end as review_category
from project-airbnb-366907.airbnb.airbnb_cleaned;
```

Visualization with Insight

With total of almost 49k listings, the biggest segment of rented AirBnB properties in NYC is “Entire Home/Apartment”. Most properties are located in Manhattan and Brooklyn.



Number of Rented Properties by Neighbourhood Group

	neighbourhood_group	id
1.	Manhattan	21.544
2.	Brooklyn	19.990
3.	Queens	5.633
4.	Bronx	1.088
5.	Staten Island	370

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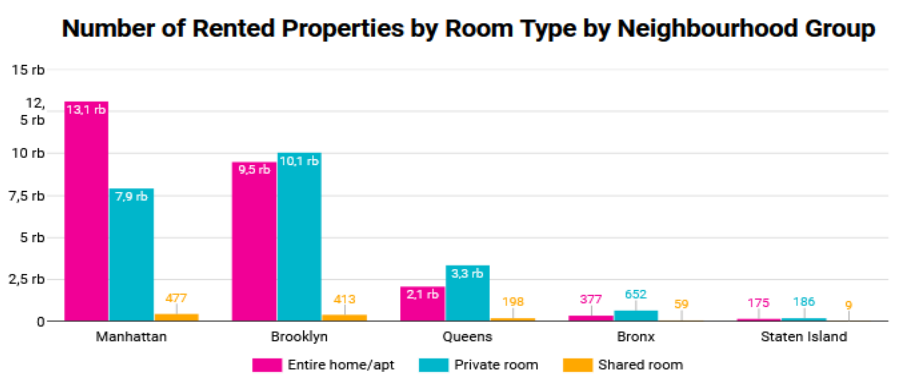

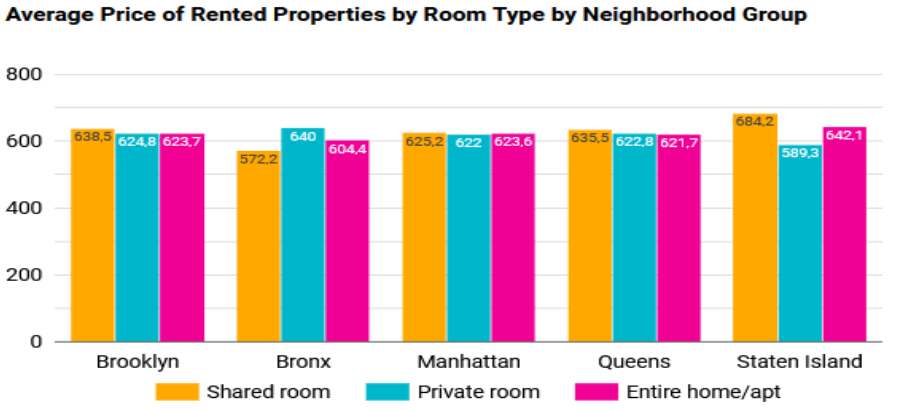

Generally, the price of the entire home/apartment property type is the highest compared to private room type and shared room type.

The properties having the highest rental price are those located in Manhattan. However, based on average property rental prices, shared room rental price in Brooklyn is slightly higher than private room in Manhattan.

THANK YOU ☺

Does anyone have any questions?

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