



Data Glacier

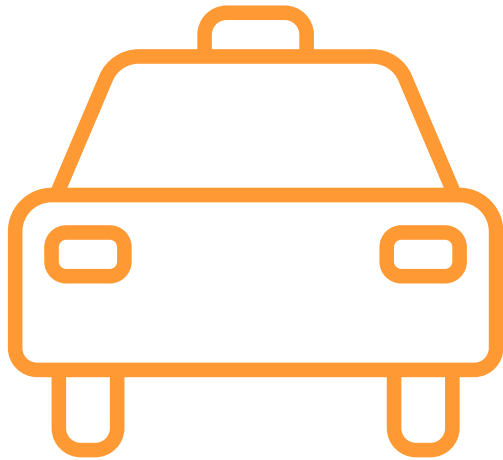
Your Deep Learning Partner

G2M Insights of Cab Companies

Virtual Internship

17/04/2023

Presented by Patryk Potocki



Agenda

- 1.Introduction
- 2.Used Data-Sets (Explanation)
- 3.Visualization and Statistical Analysis
- 4.Summary of findings
- 5.Recommendation

Introduction.

XYZ is a private equity firm in US. Due to remarkable growth in the Cab Industry in last few years and multiple key players in the market, it is planning for an investment in Cab industry.

Objective.

Run necessary analysis which will help our client to make a right decision, on which company they should make an investment.

Analysis and order included in our presentation.

Part. 1:
Explanation of datasets which were used in our research.

Part. 2:
Visualization of datasets provided to see which company is more popular.

Part. 3:
Summary of our findings and recommendation for our client.

Details of Datasets.

1. Cab_data.csv
2. City.csv
3. Customer_ID
4. Transaction_ID

Details of Master dataset.

We have merged all four datasets to get as accurate advice as possible for you. In our first visualization, User's data is anticipated by us as group of people from different Cities.

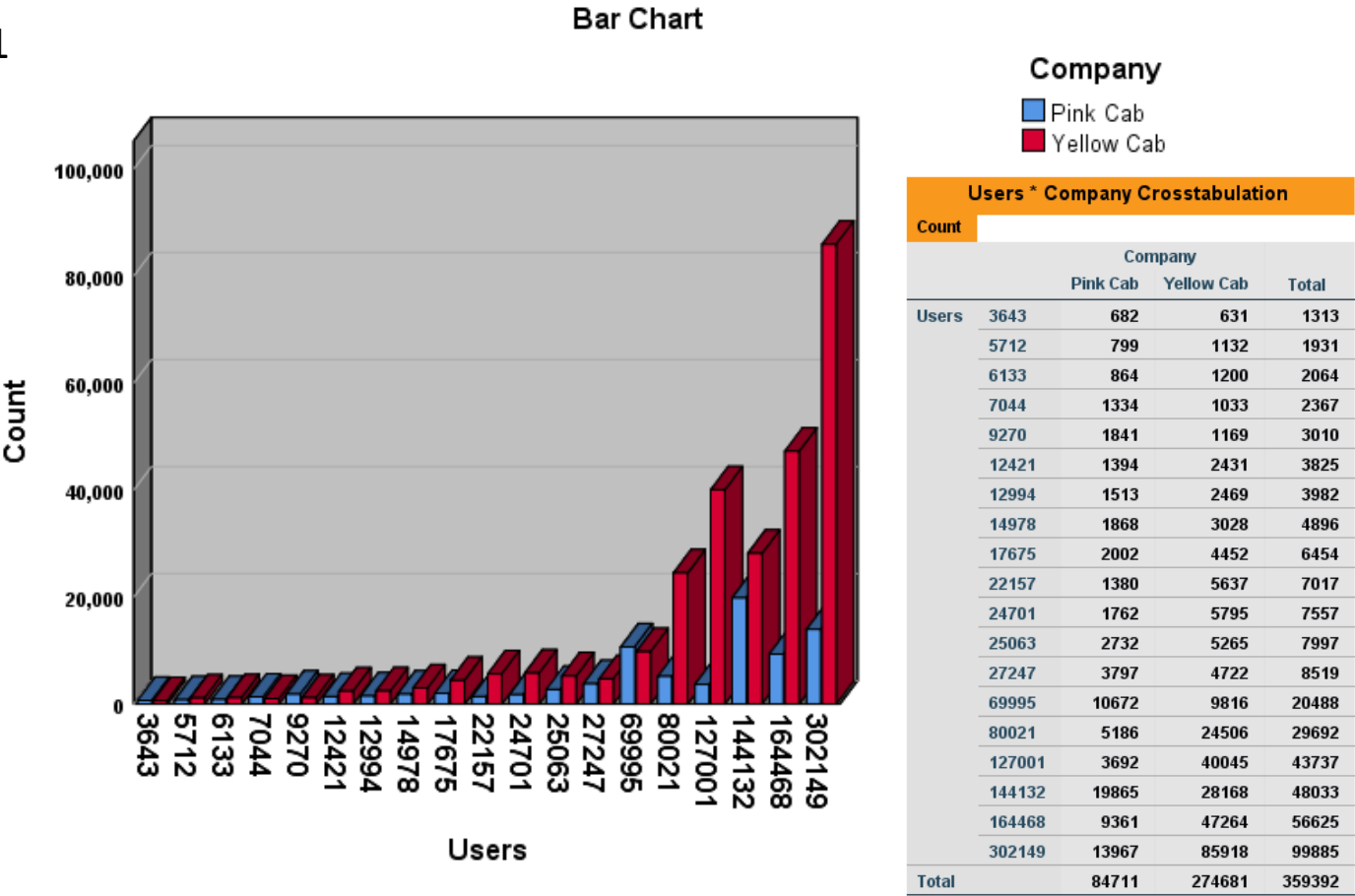


Total Number: 359393 Rows

14 Columns

Users per City.(Survey)

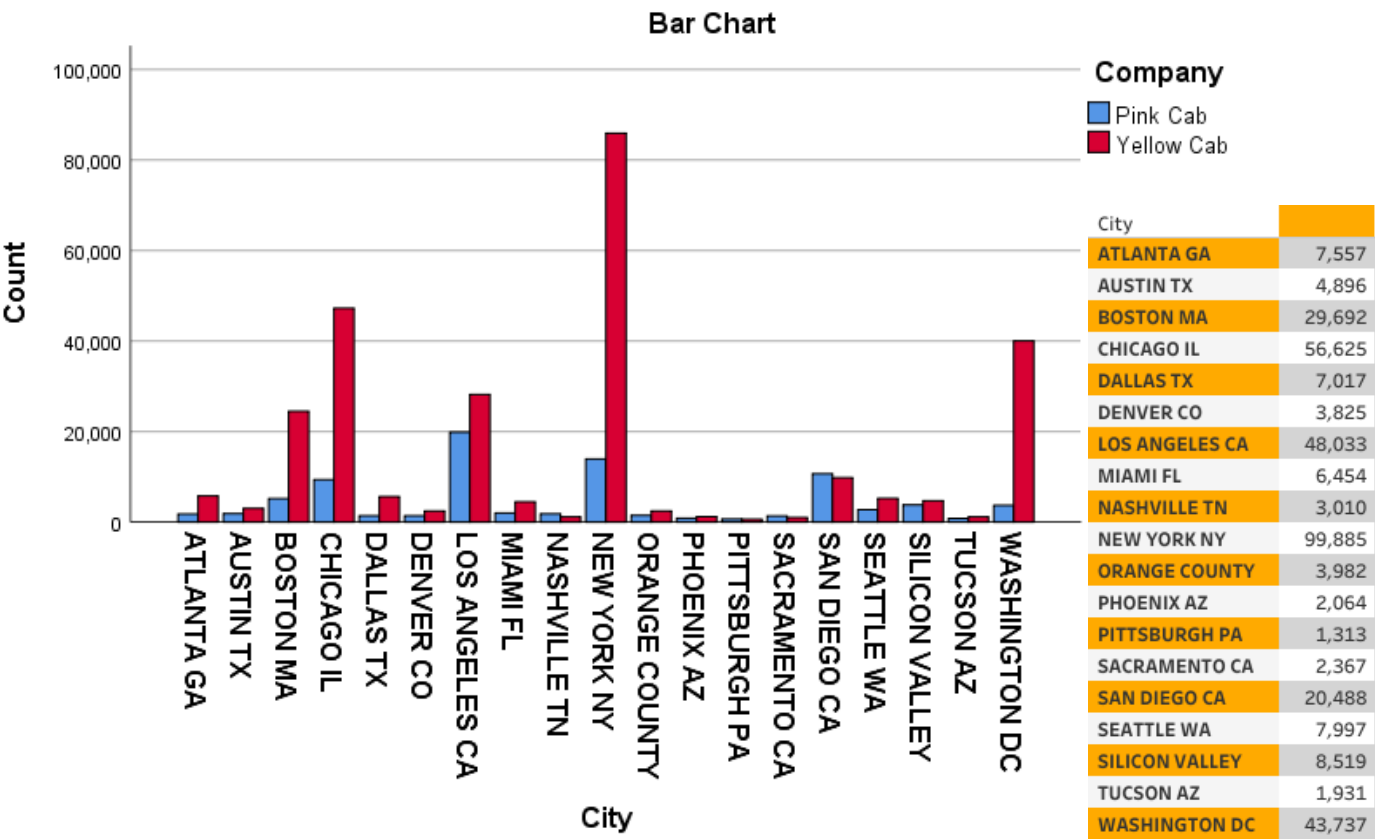
Fig. 1



Visualization of comparison users for both Cabs. In this case we can see that of our Users group data, people are divided equally in smaller Cities, but as we go up Yellow Cab it's a lot frequent choice for Cab users.

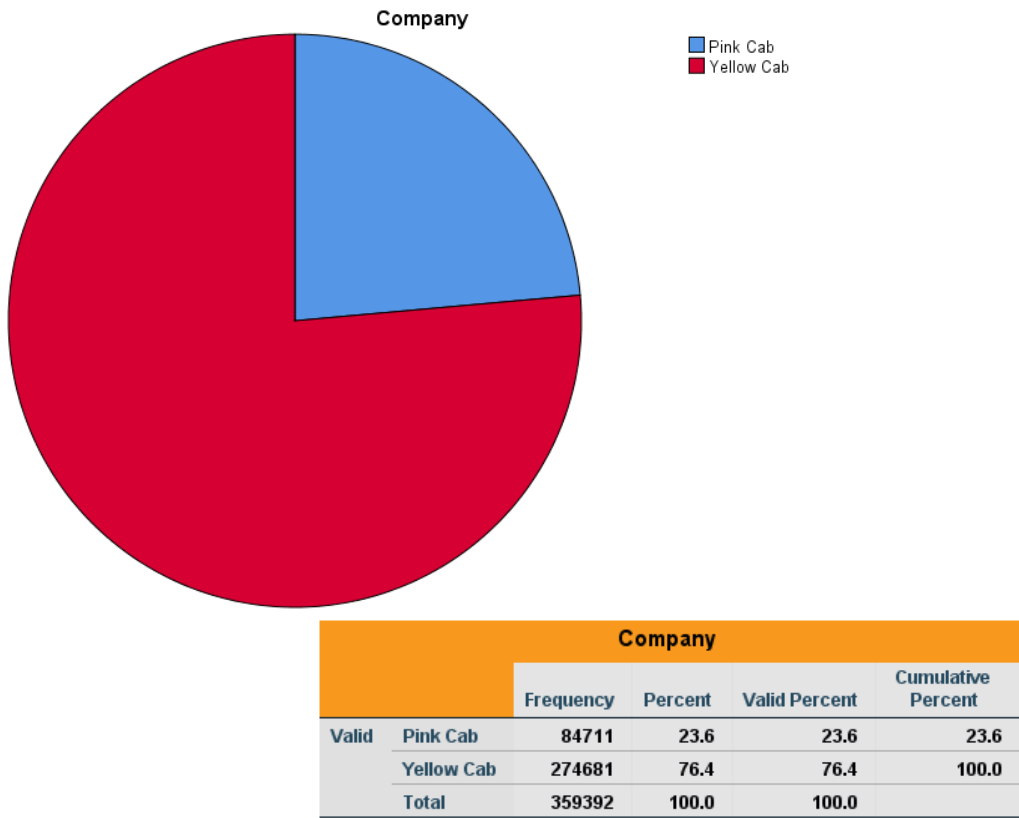
Frequency of both Cab company services use Per City.

Fig. 2



Visualization of most popular Cab.

Fig. 3



Profit per Company in each City.

Fig.4

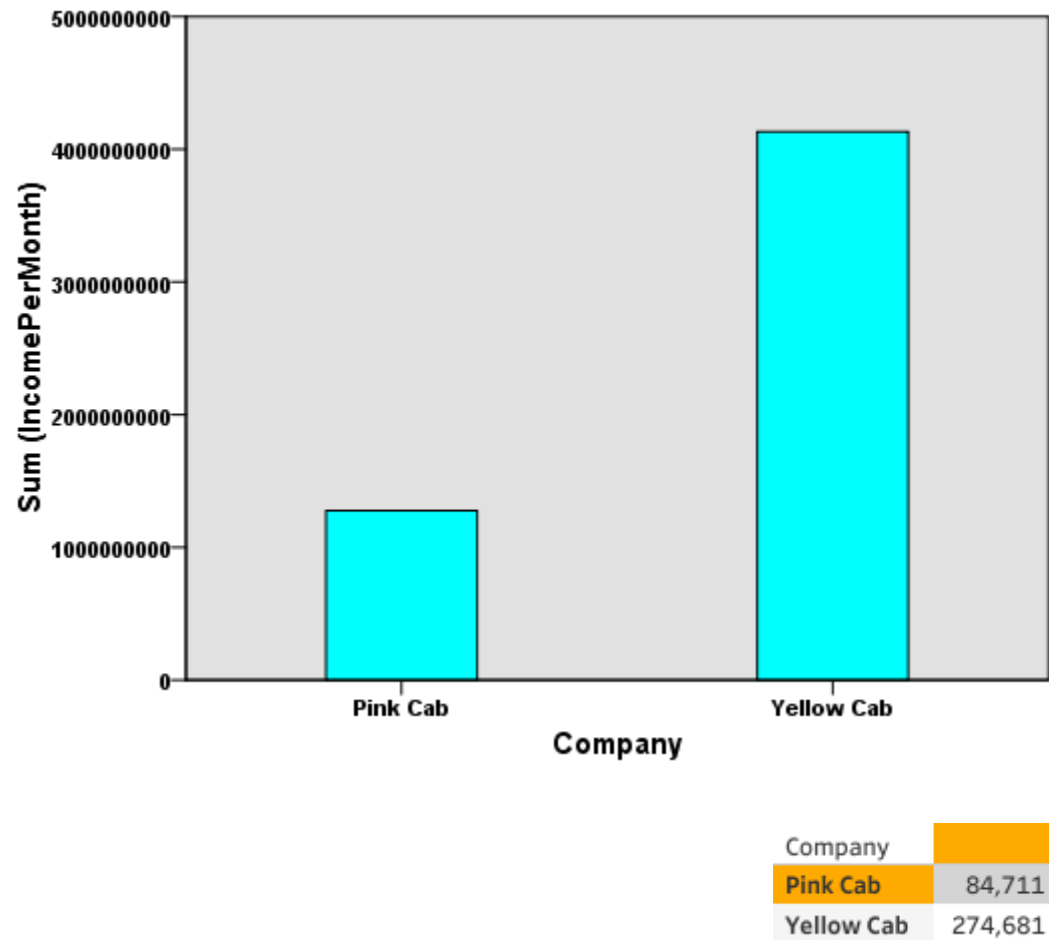
Company	Total Profit
Yellow Cab	43,251,775
Pink Cab	5,237,540



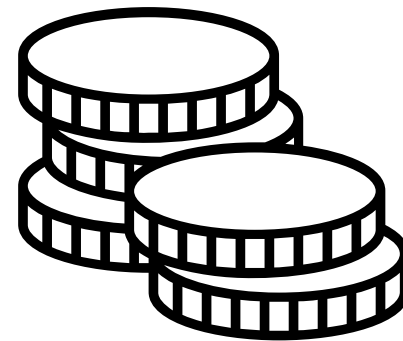
City	Company	
	Pink Cab	Yellow Cab
NEW YORK NY	3,475,780	25,515,727
CHICAGO IL	2,317,464	14,136,541
WASHINGTON DC	913,740	11,960,094
LOS ANGELES CA	4,945,494	8,438,422
BOSTON MA	1,296,658	7,294,378
SAN DIEGO CA	2,648,427	2,900,790
SILICON VALLEY	952,161	1,415,236
SEATTLE WA	682,842	1,566,789
ATLANTA GA	436,306	1,701,503
DALLAS TX	334,105	1,679,591
MIAMI FL	490,363	1,331,471
AUSTIN TX	451,127	899,314
ORANGE COUNTY	370,101	727,771
DENVER CO	344,441	720,505
NASHVILLE TN	454,993	354,583
SACRAMENTO CA	331,684	312,602
PHOENIX AZ	206,601	357,140
TUCSON AZ	198,958	333,362
PITTSBURGH PA	169,678	187,695

Fig.5

Monthly income per Company

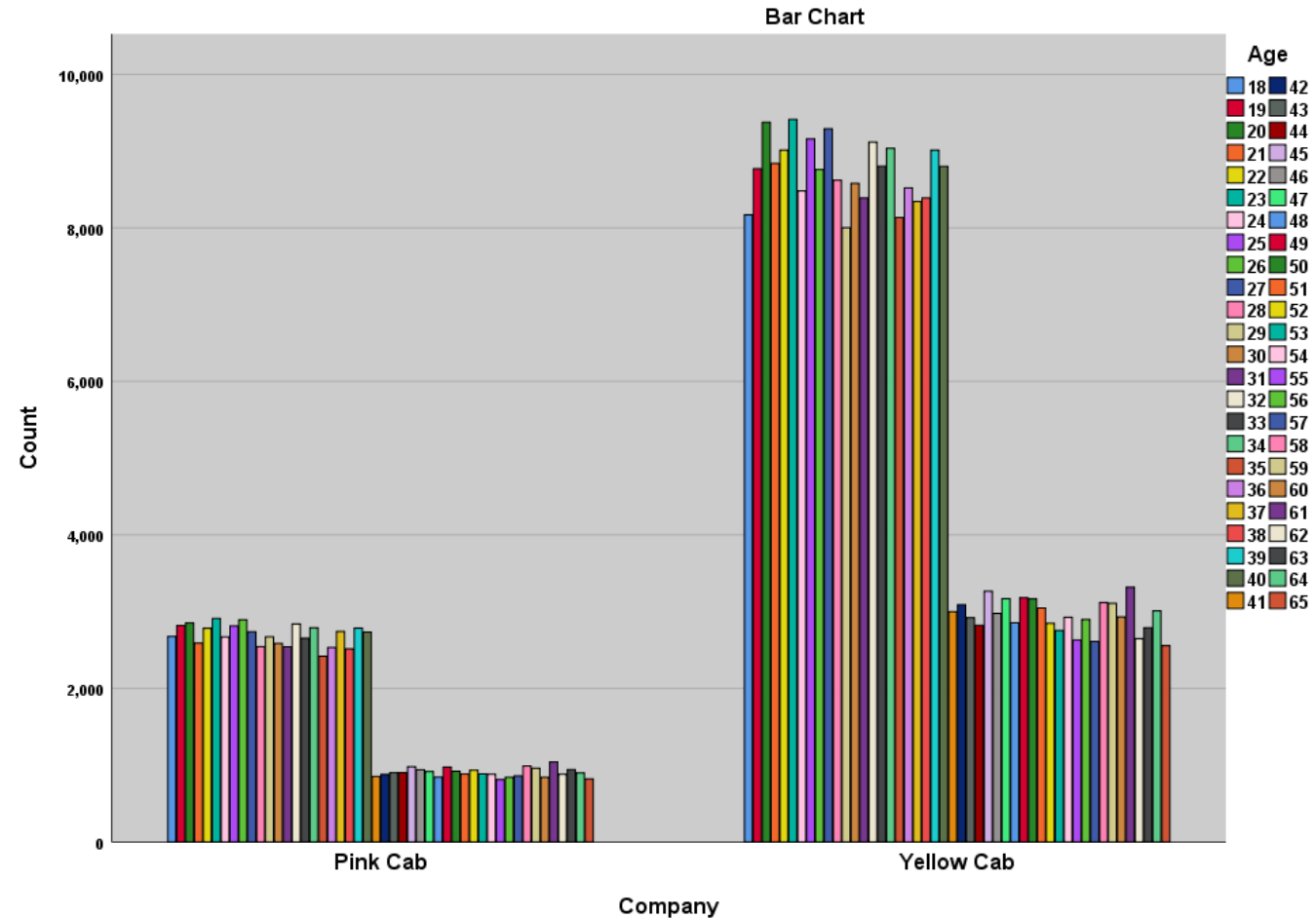


After looking at total profit per year, we want to check also monthly income per company. As we can see income per month for Yellow Cab its 274,681 and Pink Cab income is 84,711.



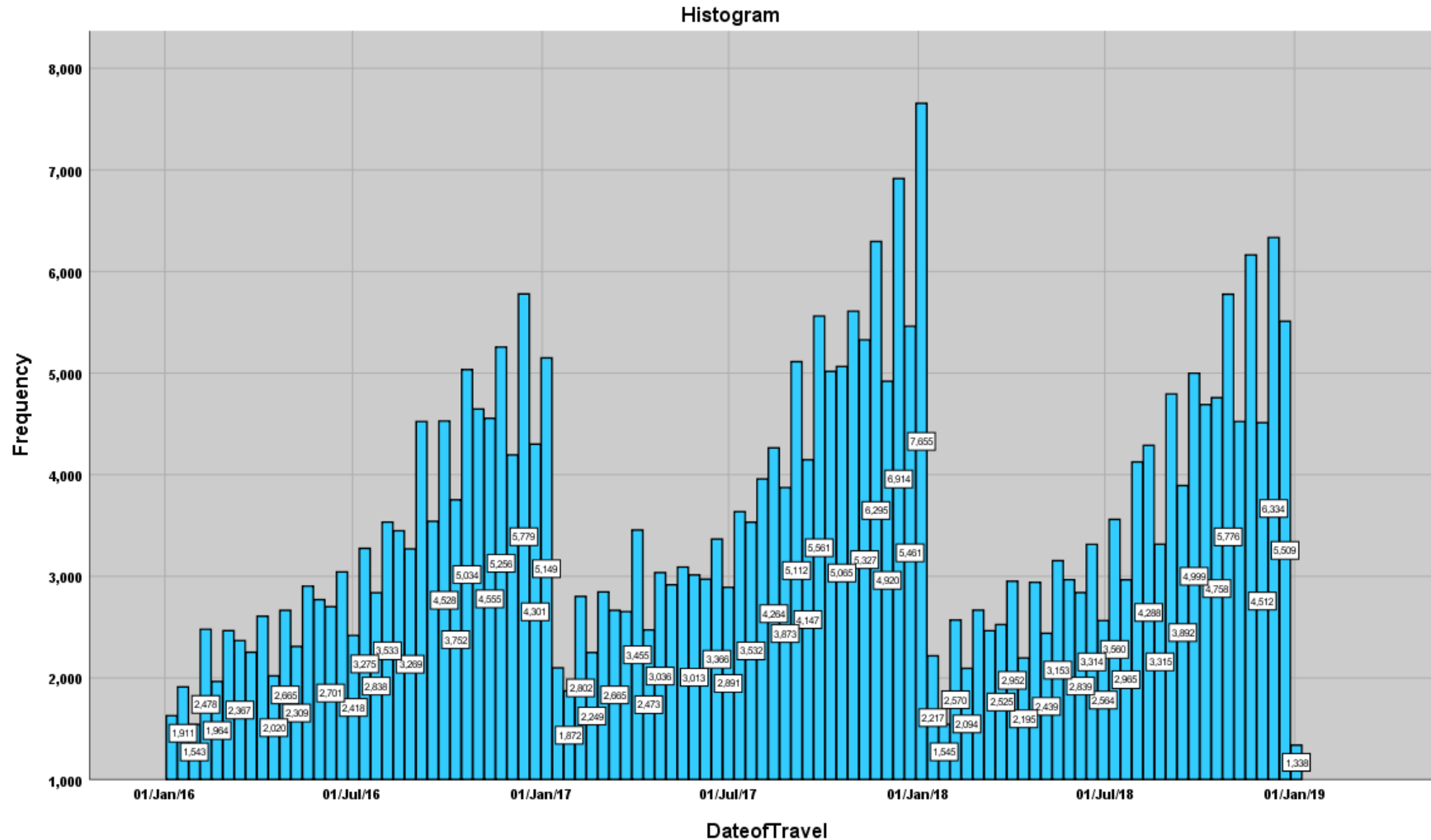
Here we can see once again domination of Yellow Cab, which we could expected as already in our previous analysis Pink Cab didn't stand a chance in every aspect. But from this Fig. we can also see that people in age between 18-40 are in the highest demand for Cab services in general.

Fig.6



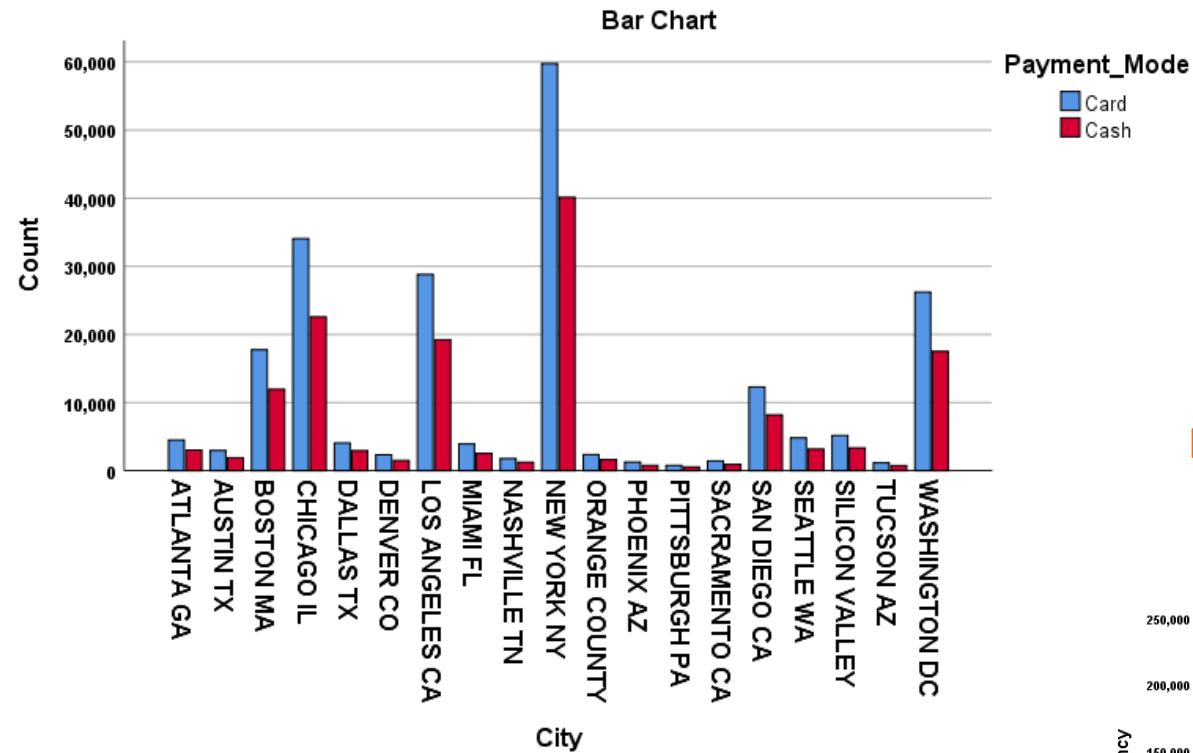
Users of both companies per age.

Fig.7



In our next visualization we are looking at dates from our dataset to identify period of time when Cab services are in highest demand. As we can see patterns are different but very similar, also that in most cases time between July and Jan are the times for highest demand of Cab services.

Fig.8 Preferable payment method per City.



Preferable payment method.

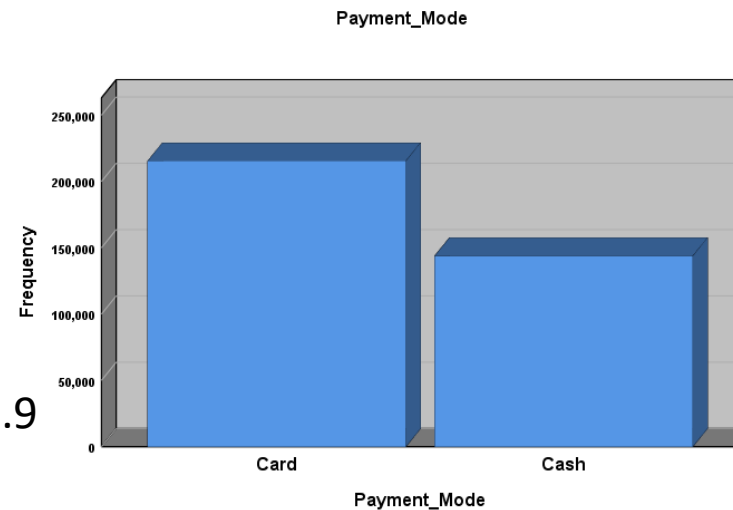


Fig.9

For our last insights from analyzed dataset we checked the most popular payment method and as we can clearly see Card payment it's the most common choice in every city but also in general.

- Participant from groups of people in each City has higher liken towards Yellow Cab then Pink. Only in smaller Cities Pink Cab overtakes Yellow Cab.
- Yellow Cab services availability overwhelm Pink Cab back far, with Yellow Cab count as 274681, compared to Pink Cab count of 84,711.
- While checking the profit per year for each company once again Yellow Cab results were a lot higher looking at Pink Cab. The total income for both companies recorded were:
 - a) Yellow Cab - 43,251,775 per year
 - b) Pink Cab - 5,237,540 per year
- Next up we checked income per month, Yellow Cab had over 3 times more income than Pink Cab. Income for both companies:
 - a) Yellow Cab – 274,681 per month
 - b) Pink Cab – 84,711 per year
- In additional analysis we find out groups per age who uses the Cab services most frequently. The age group was between 18-40 years of age, also next we checked the time of the year when Cab services had highest demand which was between July and January of each year. On the last page of our analysis, we could see that most preferable payment method is Card Payment.





From the beginning of presentation to the end of it we could clearly see that Yellow Cab it's a lot more popular and a lot more used Cab company in US. From our survey of preferable Company per City to service availability ending up at income per month/year, in every aspect Yellow Cab overtakes Pink Cab by quite a lot.

After all our findings we can safely say that we recommend Yellow Cab company to make your investment in. Would like to also point out as in the analysis on page 5, as mentioned in 3 Cities which are Sacramento CA, San Diego CA and Nashville TA the use of Yellow Cab its lower then Pink. If we come back to our last page and check Fig.8 we could see that Card Payments are the most common way chosen by customers in every City, we assume the lack of Card Payment method availability in those Cities for the Yellow Cab is the cause of less used company compare to Pink Cab.

Thank you for
your time and
attention !