



G2M Case Study

Virtual Internship

14-May-2022

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Background –G2M(cab industry) case study

- 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 : Provide actionable insights to help XYZ firm in identifying the right company for making investment.

The analysis has been divided into four parts:

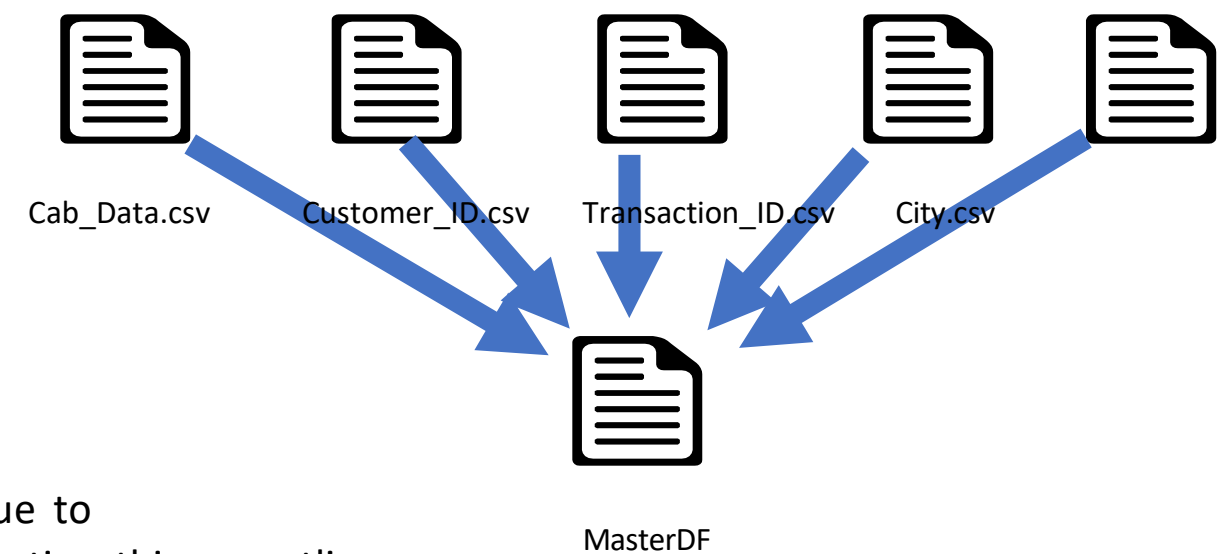
- Data Understanding
- Forecasting profit and number of rides for each cab type
- Finding the most profitable Cab company
- Recommendation for investment

Data Exploration

- 24 Features(including 9 derived features)
- Timeframe of the data: 2016-01-31 to 2018-12-31
- Total data points :355,032

Assumptions:

- Outliers are present in Price_Charged feature but due to unavailability of trip duration details ,we are not treating this as outlier.
- Profit of rides are calculated keeping other factors constant and only Price_Charged and Cost_of_Trip features used to calculate profit.
- Users feature of city dataset is treated as number of cab users in the city. we have assumed that this can be other cab users as well(including Yellow and Pink cab)




```
import pandas as pd
import numpy as np
import datetime as dt
import matplotlib.pyplot as plt
```

```
#first lets read all csv files and assign them to a variable to ease our job
#and lets review them with head method and count some important values to have a basic insight
#we have an error that cant convert 8,405,837 to int or float so we need to change it with 8.405,837
city=pd.read_csv(r"C:\Users\Abdullah\week2 datasets\city.csv")
city["Population"] = city["Population"].apply(lambda x: x.replace(',',''))
city["Population"] = city["Population"].apply(lambda x: x.replace(',',''))
city["Population"] = city["Population"].apply(lambda x: x.replace(',',''))
city.drop_duplicates(keep="first")

city.head()
```

	City	Population	Users
0	NEW YORK NY	8405837	302149
1	CHICAGO IL	1955130	164468
2	LOS ANGELES CA	1595037	144132
3	MIAMI FL	1339155	17675
4	SILICON VALLEY	1177609	27247

```
cab_data=pd.read_csv(r"C:\Users\Abdullah\week2 datasets\Cab_Data.csv")
cab_data["Date of Travel"] = pd.to_datetime(cab_data["Date of Travel"],unit = 'D',origin = '1899-12-30')
city=pd.read_csv(r"C:\Users\Abdullah\week2 datasets\city.csv")
cab_data.drop_duplicates(keep="first")
cab_data.dropna(how="all")
#if there is a row contains all nan value we drop it
cab_data.head(5)
```

	Transaction ID	Date of Travel	Company	City	KM Travelled	Price Charged	Cost of Trip
0	10000011	2016-01-08	Pink Cab	ATLANTA GA	30.45	370.95	313.635
1	10000012	2016-01-06	Pink Cab	ATLANTA GA	28.62	358.52	334.854
2	10000013	2016-01-02	Pink Cab	ATLANTA GA	9.04	125.20	97.632
3	10000014	2016-01-07	Pink Cab	ATLANTA GA	33.17	377.40	351.602
4	10000015	2016-01-03	Pink Cab	ATLANTA GA	8.73	114.62	97.776

```
cab_data["City"].value_counts()
```

	City	Population
0	NEW YORK NY	8405837
1	CHICAGO IL	1955130
2	LOS ANGELES CA	1595037
3	MIAMI FL	1339155
4	SILICON VALLEY	1177609
5	WASHINGTON DC	583592
6	BOSTON MA	30592
7	SAN DIEGO CA	138592
8	SILICON VALLEY	1177609
9	SEATTLE WA	7097
10	ATLANTA GA	7557
11	DALLAS TX	7017
12	MIAMI FL	6454
13	AUSTIN TX	4896
14	ORANGE COUNTY	3962
15	DENVER CO	3925
16	NASHVILLE TN	3010
17	SACRAMENTO CA	2367
18	PHOENIX AZ	2064
19	TUCSON AZ	1931
20	PITTSBURGH PA	1313
21	Names City, dtype:	int64

```
customer_id=pd.read_csv(r"C:\Users\Abdullah\week2 datasets\Customer_ID.csv")
customer_id.drop_duplicates(keep="first")
customer_id.head(5)
```

	Customer ID	Gender	Age	Income (USD/Month)
0	25290	Male	28	10813
1	27703	Male	27	9237
2	28712	Male	53	11242
3	28020	Male	23	23327
4	27182	Male	33	8536

```
customer_id["Gender"].value_counts()
```

```
Male 26562
Female 22609
Name: Gender, dtype: int64
```

```
transaction_id=pd.read_csv(r"C:\Users\Abdullah\week2 datasets\Transaction_ID.csv")
transaction_id.drop_duplicates(keep="first")
transaction_id.head(5)
```

	Transaction ID	Customer ID	Payment Mode
0	10000011	29290	Card
1	10000012	27703	Card
2	10000013	28712	Cash
3	10000014	28020	Cash
4	10000015	27182	Card

```
transaction_id["Payment_Mode"].value_counts()
```

```
Card 263951
Cash 176107
Name: Payment_Mode, dtype: int64
```

```
#now lets check data quality if there are NaN or null values and see the data types
a=cab_data.isnull().sum(),cab_data.info()
b=(city.isnull().sum(),city.info())
c=(customer_id.isnull().sum(),customer_id.info())
d=(transaction_id.isnull().sum(),transaction_id.info())
print(a,b,c,d)

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 20 entries, 0 to 19
Data columns (total 3 columns):
 # Column Non-Null Count Dtype
---
 0 City 20 non-null object
 1 Population 20 non-null object
 2 Users 20 non-null object
dtypes: object(3)
memory usage: 308.0+ bytes
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 35932 entries, 0 to 35931
Data columns (total 7 columns):
 # Column Non-Null Count Dtype
---
 0 Transaction ID 35932 non-null int64
 1 Date of Travel 35932 non-null datetime64[ns]
 2 Company 35932 non-null object
 3 City 35932 non-null object
 4 KM Travelled 35932 non-null float64
 5 Price Charged 35932 non-null float64
 6 Cost of Trip 35932 non-null float64
dtypes: datetime64[ns](1), float64(3), int64(1), object(2)
memory usage: 19.2+ MB
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 49171 entries, 0 to 49170
Data columns (total 4 columns):
 # Column Non-Null Count Dtype
---
 0 Customer ID 49171 non-null int64
 1 Gender 49171 non-null object
 2 Age 49171 non-null int64
 3 Income (USD/Month) 49171 non-null int64
dtypes: int64(3), object(1)
memory usage: 1.5+ MB
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 44009 entries, 0 to 44008
Data columns (total 3 columns):
 # Column Non-Null Count Dtype
---
 0 Transaction ID 44009 non-null int64
 1 Customer ID 44009 non-null int64
 2 Payment_Mode 44009 non-null object
dtypes: int64(2), object(1)
memory usage: 10.1+ MB
City 0
Population 0
Users 0
dtype: int64, None [Transaction ID 0
Date of Travel 0
Company 0
City 0
KM Travelled 0
Price Charged 0
Cost of Trip 0
dtype: int64, None] [Customer ID 0
Gender 0
Age 0
Income (USD/Month) 0
dtype: int64, None] [Transaction ID 0
Customer ID 0
Payment_Mode 0
dtype: int64, None]
```

```
#at first glance it seems yellow cab is better at profit per km
#we added a new column called "Profit per km" in order to determine which company is better per km profit
cab_data["Profit per KM"]=(cab_data["Price Charged"]-cab_data["Cost of Trip"])/(cab_data["KM Travelled"])
cab_data.head(3)
```

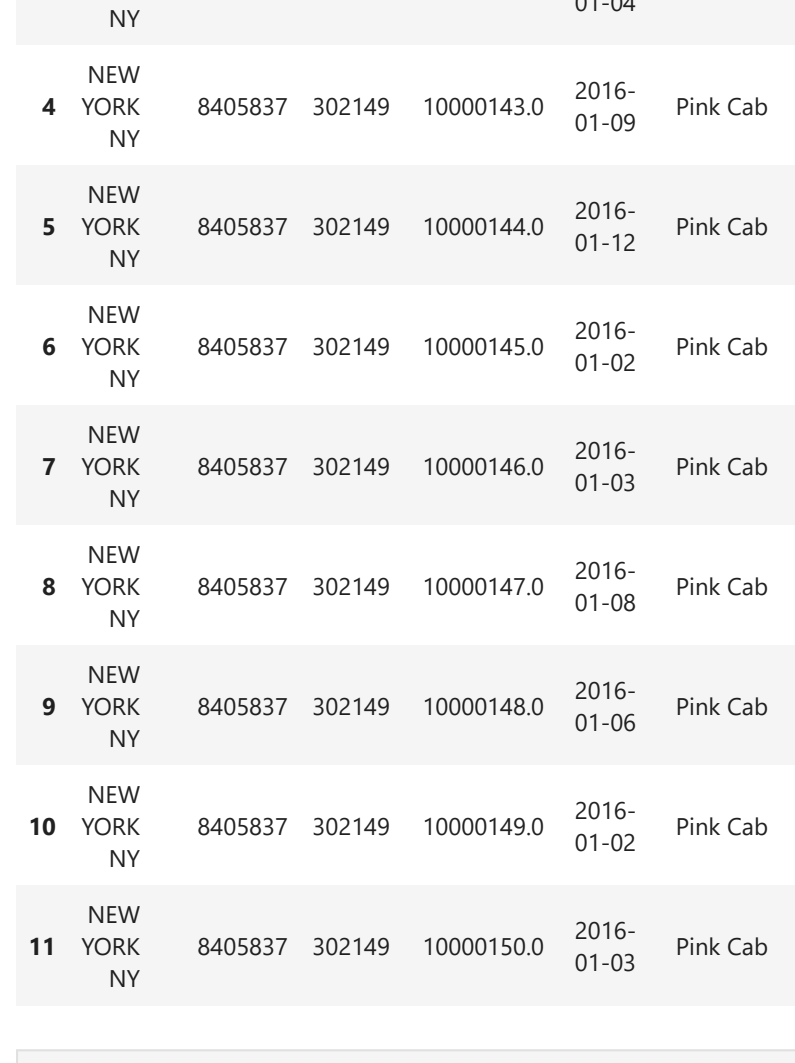
	Transaction ID	Date of Travel	Company	City	KM Travelled	Price Charged	Cost of Trip	Profit per KM
0	10000011	2016-01-08	Pink Cab	ATLANTA GA	30.45	370.95	313.635	1.882266
1	10000012	2016-01-06	Pink Cab	ATLANTA GA	28.62	358.52	334.854	0.826904
2	10000013	2016-01-02	Pink Cab	ATLANTA GA	9.04	125.20	97.632	3.049558

```
#now lets find average profit per km by company name to determine which cab is preferable based on our hypothesis
popcab_data.loc[cab_data["Company"]=="Pink Cab","Profit per KM"].mean()
yc=cab_data.loc[cab_data["Company"]=="Yellow Cab","Profit per KM"].mean()
strty=stty(cy)
strty=stty(cy)
print("Average Profit for KM for Pink Cab is "+ strty, " ", "Average Profit for KM for Yellow Cab is "+ strty)

Average Profit for KM for Pink Cab is 2.769907700396525 Average Profit for KM for Yellow Cab is 7.105507808353063
```

```
plt.xlabel("Cab Companies",fontsize=15,color='blue',labelpad=10)
plt.ylabel("Profit per KM",fontsize=15,color='brown',labelpad=10)
plt.bar(["pink cab","yellow cab"],[pc,yc],color=["pink","yellow"]);

#as we see yellow cab has much profit per KM comparing to pink cab
```



```
#so lets create master data using 4 dataframe to one using joins based on common columns
merged1=pd.merge(city,cab_data, on="City", how="outer")
merged2=pd.merge(customer_id,transaction_id, on="Customer ID", how="outer")
merged2.head()
```

	Customer ID	Gender	Age	Income (USD/Month)	Transaction ID	Payment Mode
0	29290	Male	28	10813	10000011	Card
1	29290	Male	28	10813	10351127	Cash
2	29290	Male	28	10813	10412921	Card
3	27703	Male	27	9237	10000012	Card
4	27703	Male	27	9237	10320494	Card

```
merged1.head()
```

	City	Population	Users	Transaction ID	Date of Travel	Company	KM Travelled	Price Charged	Cost of Trip	Profit per KM	Customer ID	Gender	Age	Income (USD/Month)
0	NEW YORK NY	8405837	302149	10000139.0	2016-01-08	Pink Cab	17.85	242.90	198.135	2.507843	2416.0	Male	28.0	21399.0
1	NEW YORK NY	8405837	302149	10000140.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	18.0	8149.0
2	NEW YORK NY	8405837	302149	10000141.0	2016-01-06	Pink Cab	16.32	236.41	186.048	3.085907	1451.0	Male	35.0	23989.0
3	NEW YORK NY	8405837	302149	10000142.0	2016-01-04	Pink Cab	12.43	194.61	144.188	4.056476	1609.0	Male	30.0	23036.0
4	NEW YORK NY	8405837	302149	10000143.0	2016-01-09	Pink Cab	29.70	434.57	350.460	2.831987	2927.0	Male	33.0	14520.0
5	NEW YORK NY	8405837	302149	10000144.0	2016-01-12	Pink Cab	19.00	305.81	214.700	4.795263	2626.0	Male	18.0	30401.0
6	NEW YORK NY	8405837	302149	10000145.0	2016-01-02	Pink Cab	2.10	37.18	21.420	7.504762	502.0	Male	28.0	15285.0
7	NEW YORK NY	8405837	302149	10000146.0	2016-01-03	Pink Cab	16.52	290.52	168.504	7.385956	2571.0	Male	33.0	4620.0
8	NEW YORK NY	8405837	302149	10000147.0	2016-01-08	Pink Cab	27.30	439.40	294.840	5.295238	769.0	Male	63.0	29758.0
9	NEW YORK NY	8405837	302149	10000148.0	2016-01-06	Pink Cab	24.70	325.27	276.640	1.968826	373.0	Male	27.0	5070.0
10	NEW YORK NY	8405837	302149	10000149.0	2016-01-02	Pink Cab	32.64	498.60	349.248	4.575735	533.0	Male	52.0	15974.0
11	NEW YORK NY	8405837	302149	10000150.0	2016-01-03	Pink Cab	28.84	465.87	299.936	5.753606	1217.0	Male	51.0	3122.0

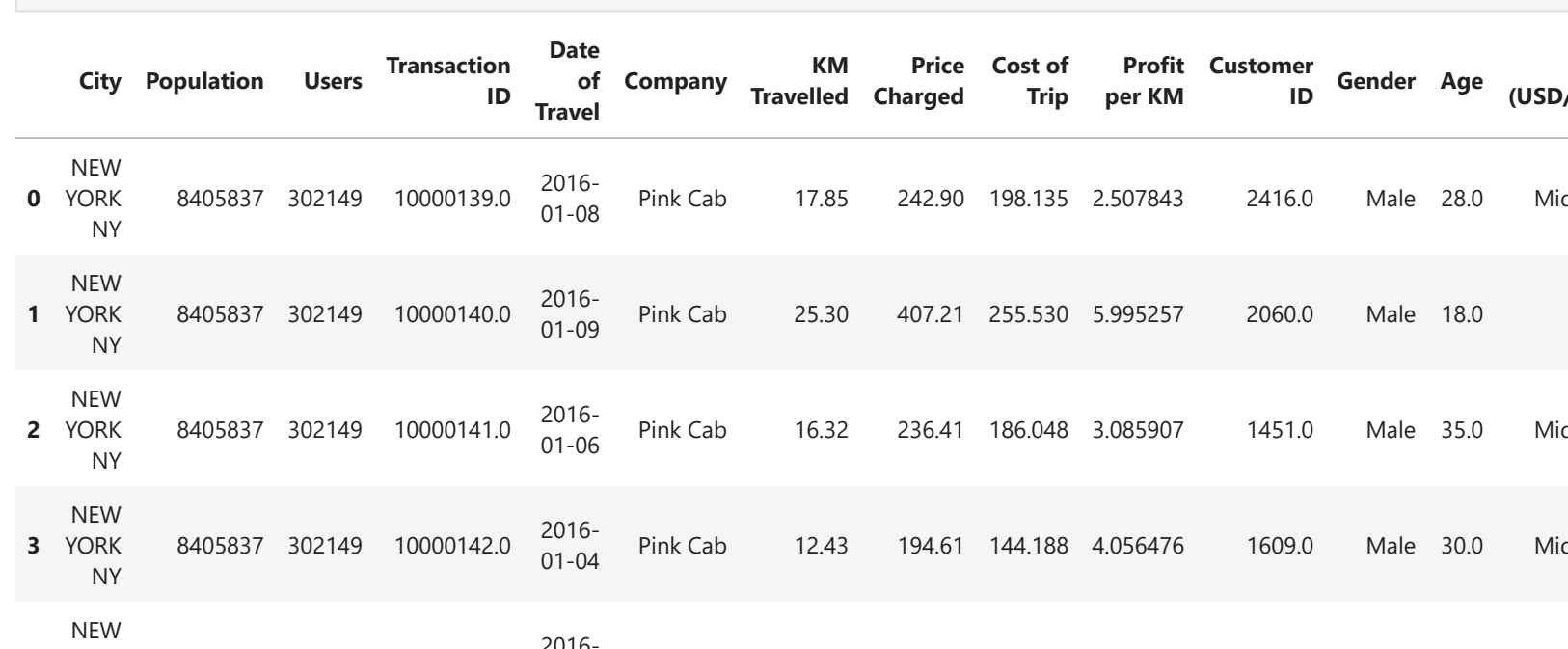
```
#NOW WE HAVE A MASTER DF MERGING TO MERGED DATAFRAME
masterdf=pd.merge(merged1,merged2, on="Transaction ID", how="outer")
masterdf.dropna(inplace=True)
masterdf.head(12)
```

	City	Population	Users	Transaction ID	Date of Travel	Company	KM Travelled	Price Charged	Cost of Trip	Profit per KM	Customer ID	Gender	Age	Income (USD/Month)
0	NEW YORK NY	8405837	302149	10000139.0	2016-01-08	Pink Cab	17.85	242.90	198.135	2.507843	2416.0	Male	28.0	21399.0
1	NEW YORK NY	8405837	302149	10000140.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	18.0	8149.0
2	NEW YORK NY	8405837	302149	10000141.0	2016-01-06	Pink Cab	16.32	236.41	186.048	3.085907	1451.0	Male	35.0	23989.0
3	NEW YORK NY	8405837	302149	10000142.0	2016-01-04	Pink Cab	12.43	194.61	144.188	4.056476	1609.0	Male	30.0	23036.0
4	NEW YORK NY	8405837	302149	10000143.0	2016-01-09	Pink Cab	29.70	434.57	350.460	2.831987	2927.0	Male	33.0	14520.0
5	NEW YORK NY	8405837	302149	10000144.0	2016-01-12	Pink Cab	19.00	305.81	214.700	4.795263	2626.0	Male	18.0	30401.0
6	NEW YORK NY	8405837	302149	10000145.0	2016-01-02	Pink Cab	2.10	37.18	21.420	7.504762	502.0	Male	28.0	15285.0
7	NEW YORK NY	8405837	302149	10000146.0	2016-01-03	Pink Cab	16.52	290.52	168.504	7.385956	2571.0	Male	33.0	4620.0
8	NEW YORK NY	8405837	302149	10000147.0	2016-01-08	Pink Cab	27.30	439.40	294.840	5.295238	769.0	Male	63.0	29758.0
9	NEW YORK NY	8405837	302149	10000148.0	2016-01-06	Pink Cab	24.70	325.27	276.640	1.968826	373.0	Male	27.0	5070.0
10	NEW YORK NY	8405837	302149	10000149.0	2016-01-02	Pink Cab	32.64	498.60	349.248	4.575735	533.0	Male	52.0	15974.0
11	NEW YORK NY	8405837	302149	10000150.0	2016-01-03	Pink Cab	28.84	465.87	299.936	5.753606	1217.0	Male	51.0	3122.0

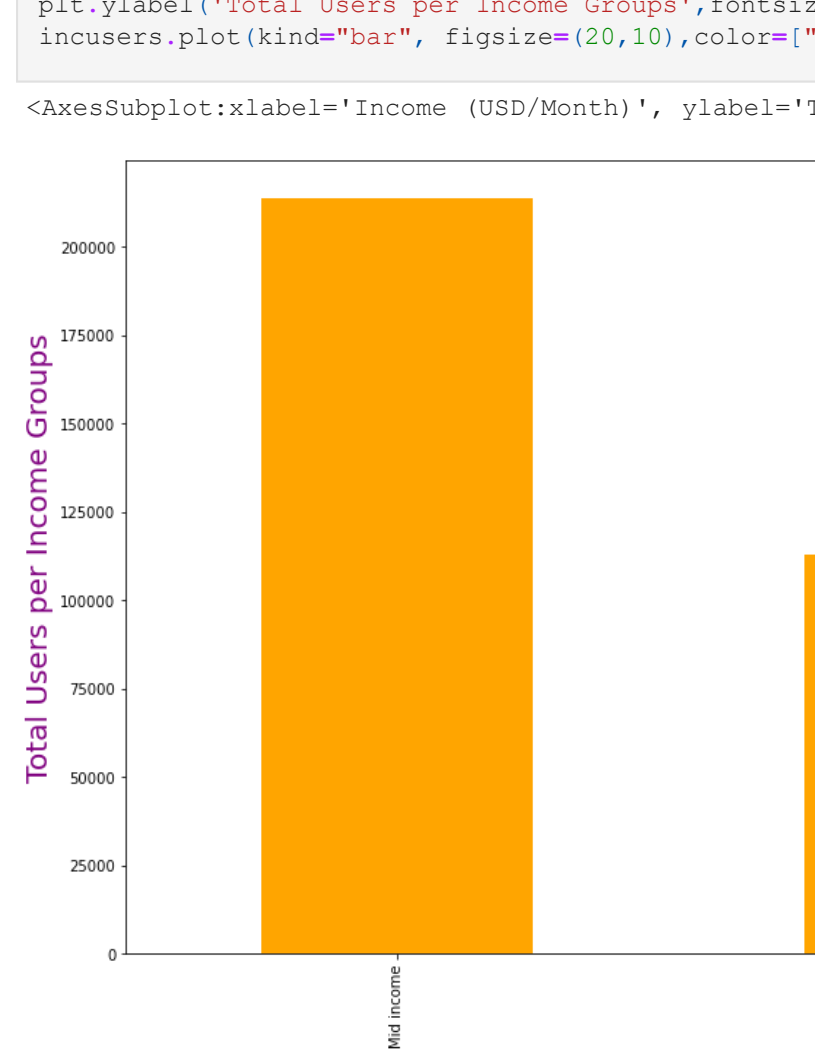
```
#LETS CHECK THE CORRELATIONS BETWEEN COLUMNS IN DF BEFORE VISUALIZING THE RELEVANT ONES
masterdf.corr()
```

	Transaction ID	KM Travelled	Price Charged	Cost of Trip	Profit per KM	Customer ID	Age	Income (USD/Month)
Transaction ID	1.000000	-0.001429	-0.052902	-0.003462	-0.110524	-0.021289	-0.001060	-0.000935
KM Travelled	-0.001429	1.000000	0.835753	0.981848	-0.000538	0.000389	-0.000369	-0.000544
Price Charged	-0.052902	0.835753	1.000000	0.859812	0.473222	-0.177324	-0.003084	-0.003228
Cost of Trip	-0.003462	0.981848	0.859812	1.000000	0.031053	0.003077	-0.000189	-0.000633
Profit per KM	-0.110524	-0.000538	0.473222	0.031053	1.000000	-0.394133	-0.006428	0.008159
Customer ID	-0.021289	0.000389	-0.177324	0.003077	-0.394133	1.000000	-0.002161	-0.005834
Age	-0.001060	-0.000369	-0.003084	-0.000189	-0.006428	-0.002161	1.000000	-0.000573
Income (USD/Month)	-0.000935	-0.000544	0.003228	-0.000633	0.008159	-0.005834	-0.000573	1.000000

```
#CHECKED COMPANY'S TOTAL USERS FOR EACH CITY
citysum=masterdf.groupby(by="City", "Company").count()
citysum.plot(kind="bar", figsize=(20,10), color=["pink","yellow"], stacked=True);
```



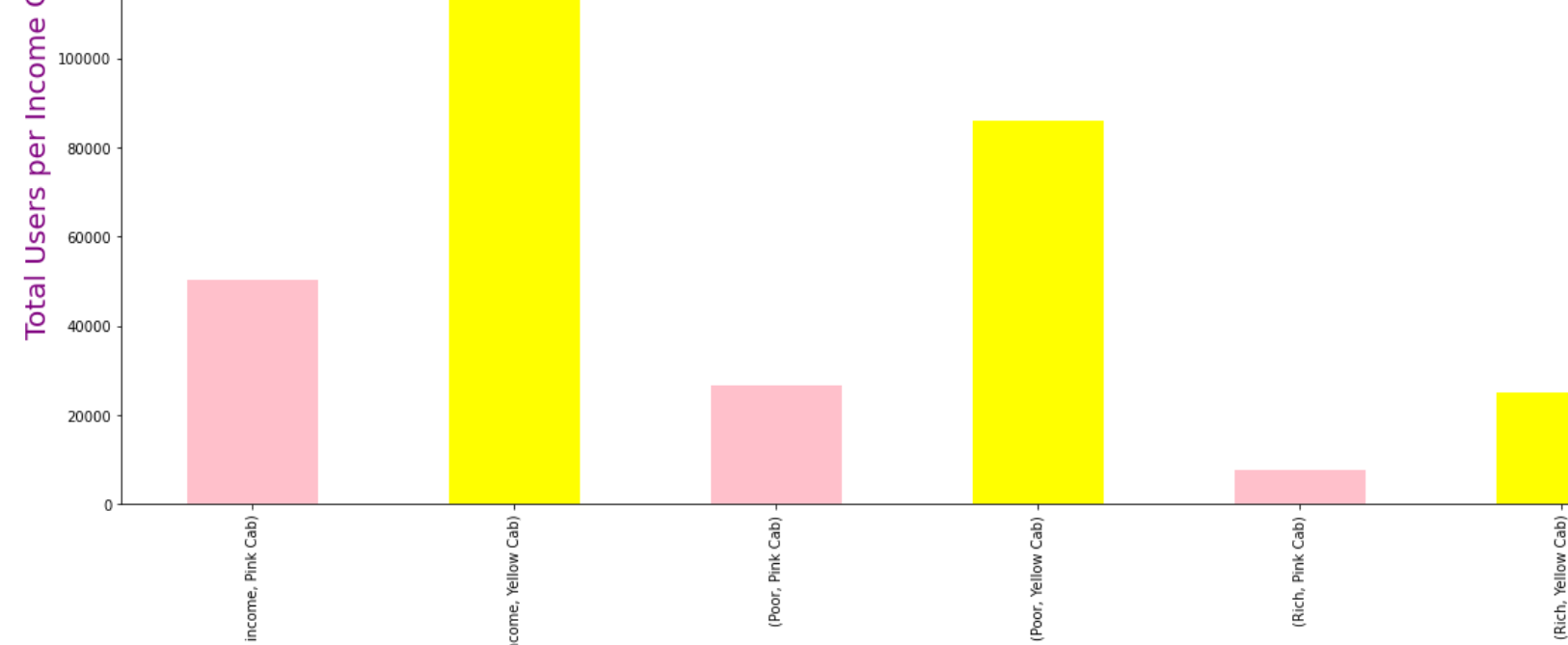
```
#total market share
#as we see yellow cab dominates the current market
piesum=masterdf.groupby("Company").count()
piesum.plot(kind="pie", color=["pink","yellow"], figsize=(10,8));
```



```
incusers=masterdf.groupby("Income (USD/Month)").count()
incusers.to_frame()
```

```
plt.ylabel("Total Users per Income Groups",fontsize=20,color="purple")
incusers.plot(kind="bar", stacked=True, figsize=(20,10), color=["pink","yellow"]);
```

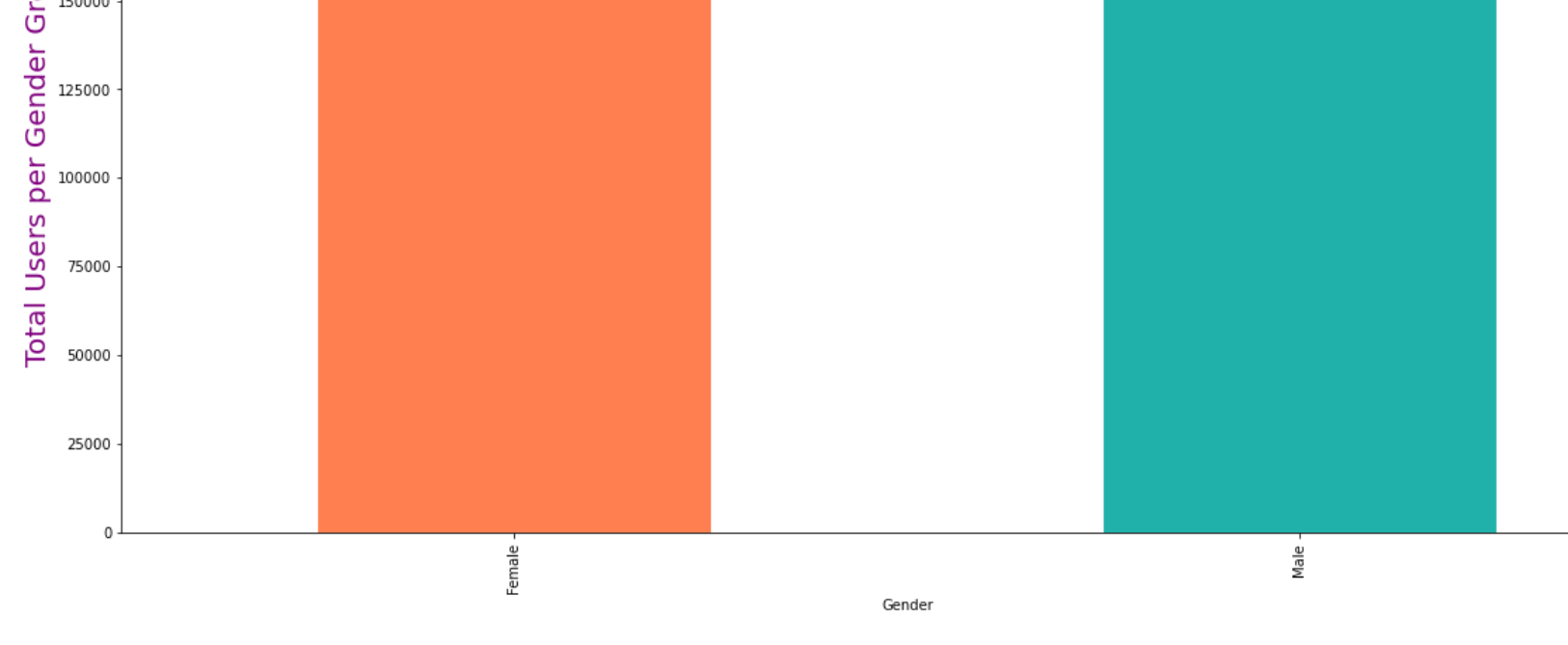
```
<AxesSubplot: xlabel='Income (USD/Month)', ylabel='Total Users per Income Groups'>
```



```
#total users per income groups for each company
#yellow cab has largest number of users in the mid income group which prefers using cab more than other income groups
incusers=masterdf.groupby("Income (USD/Month)", "Company").count()
incusers.to_frame()
```

```
plt.ylabel("Total Users per Income Groups",fontsize=20,color="purple")
incusers.plot(kind="bar", stacked=True, figsize=(20,10), color=["pink","yellow"]);
```

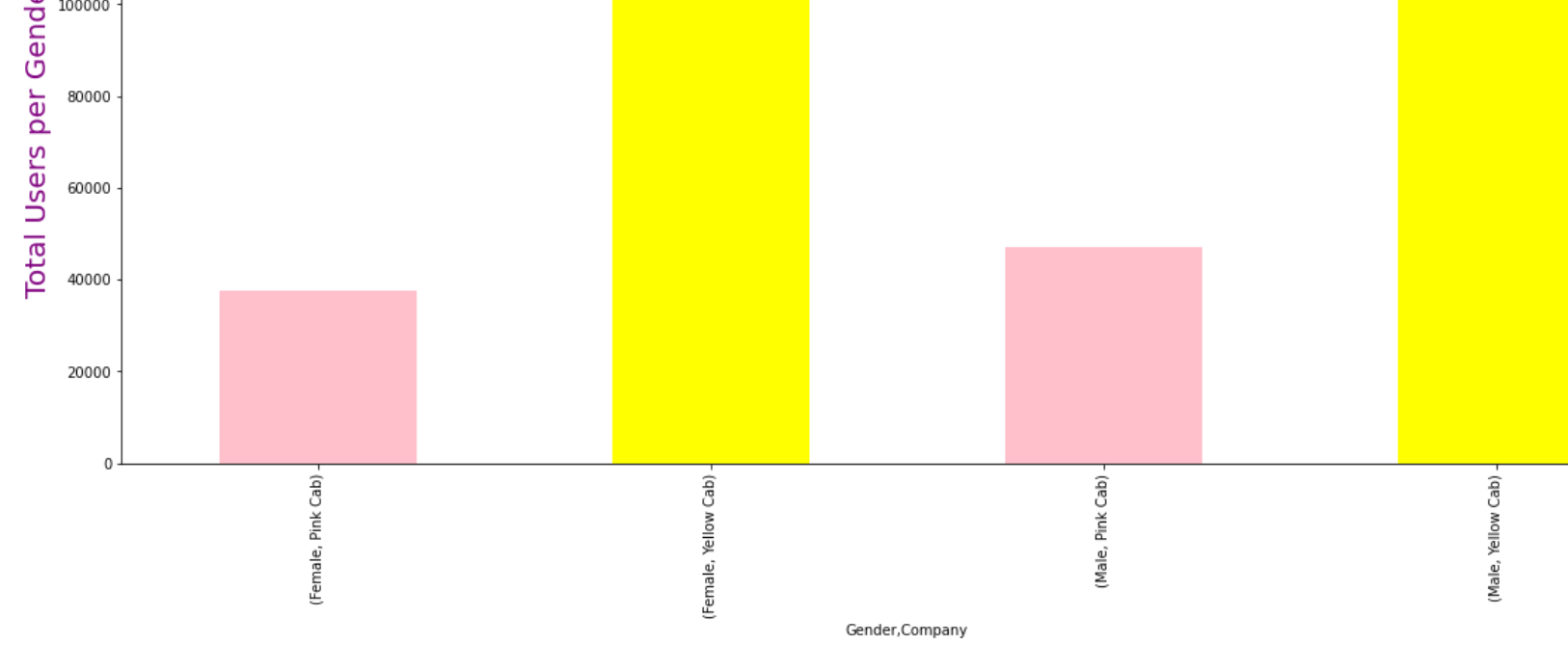
```
<AxesSubplot: xlabel='Income (USD/Month)', ylabel='Total Users per Income Groups'>
```



```
#total users per gender groups
incusers=masterdf.groupby("Gender", "Company").count()
incusers.to_frame()
```

```
plt.ylabel("Total Users per Gender Groups",fontsize=20,color="purple")
incusers.plot(kind="bar", stacked=True, figsize=(20,10), color=["pink","yellow"]);
```

```
<AxesSubplot: xlabel='Gender', ylabel='Total Users per Gender Groups'>
```



```
#female users have a tendency to use pink cab more often?
gender_cab=masterdf.groupby("Gender", "Company").count()
gender_cab.to_frame()
```

```
plt.ylabel("Total Users per Gender Groups",fontsize=20,color="purple")
gender_cab.plot(kind="bar", stacked=True, figsize=(20,10), color=["pink","yellow"]);
```

```
<AxesSubplot: xlabel='Gender', ylabel='Total Users per Gender Groups'>
```



```
#lets check cab company's total users per payment mode
payment_cab=masterdf.groupby("Payment_Mode", "Company").count()
payment_cab.to_frame()
```

```
plt.ylabel("Total Users per Payment Mode",fontsize=20,color="purple")
payment_cab.plot(kind="bar", stacked=True, figsize=(20,10), color=["pink","yellow"]);
```



```
#age and cab using relation diagram
#ages grouped into 3 different group using a simple function
def agecomparison(age):
    if age < 30:
        return "Young"
    elif age < 50:
        return "Mid Aged"
    else:
        return "Old"
```

```
a=masterdf["Age"].apply(agecomparison)
masterdf["Age"]=a
masterdf.head()
```

	City	Population	Users	Transaction ID	Date of Travel	Company	KM Travelled	Price Charged	Cost of Trip	Profit per KM	Customer ID	Gender	Age	Income (USD/Month)
0	NEW YORK NY	8405837	302149	10000139.0	2016-01-08	Pink Cab	17.85	242.90	198.135	2.507843	2416.0	Male	Young	Mid income
1	NEW YORK NY	8405837	302149	10000140.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
2	NEW YORK NY	8405837	302149	10000141.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
3	NEW YORK NY	8405837	302149	10000142.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
4	NEW YORK NY	8405837	302149	10000143.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
5	NEW YORK NY	8405837	302149	10000144.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
6	NEW YORK NY	8405837	302149	10000145.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
7	NEW YORK NY	8405837	302149	10000146.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
8	NEW YORK NY	8405837	302149	10000147.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
9	NEW YORK NY	8405837	302149	10000148.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
10	NEW YORK NY	8405837	302149	10000149.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
11	NEW YORK NY	8405837	302149	10000150.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
12	NEW YORK NY	8405837	302149	10000151.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
13	NEW YORK NY	8405837	302149	10000152.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
14	NEW YORK NY	8405837	302149	10000153.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
15	NEW YORK NY	8405837	302149	10000154.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
16	NEW YORK NY	8405837	302149	10000155.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
17	NEW YORK NY	8405837	302149	10000156.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
18	NEW YORK NY	8405837	302149	10000157.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
19	NEW YORK NY	8405837	302149	10000158.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
20	NEW YORK NY	8405837	302149	10000159.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
21	NEW YORK NY	8405837	302149	10000160.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
22	NEW YORK NY	8405837	302149	10000161.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
23	NEW YORK NY	8405837	302149	10000162.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
24	NEW YORK NY	8405837	302149	10000163.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
25	NEW YORK NY	8405837	302149	10000164.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
26	NEW YORK NY	8405837	302149	10000165.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
27	NEW YORK NY	8405837	302149	10000166.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
28	NEW YORK NY	8405837	302149	10000167.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
29	NEW YORK NY	8405837	302149	10000168.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
30	NEW YORK NY	8405837	302149	10000169.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
31	NEW YORK NY	8405837	302149	10000170.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
32	NEW YORK NY	8405837	302149	10000171.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
33	NEW YORK NY	8405837	302149	10000172.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
34	NEW YORK NY	8405837	302149	10000173.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
35	NEW YORK NY	8405837	302149	10000174.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
36	NEW YORK NY	8405837	302149	10000175.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
37	NEW YORK NY	8405837	302149	10000176.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
38	NEW YORK NY	8405837	302149	10000177.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
39	NEW YORK NY	8405837	302149	10000178.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
40	NEW YORK NY	8405837	302149	10000179.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
41	NEW YORK NY	8405837	302149	10000180.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
42	NEW YORK NY	8405837	302149	10000181.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
43	NEW YORK NY	8405837	302149	10000182.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
44	NEW YORK NY	8405837	302149	10000183.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
45	NEW YORK NY	8405837	302149	10000184.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
46	NEW YORK NY	8405837	302149	10000185.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
47	NEW YORK NY	8405837	302149	10000186.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
48	NEW YORK NY	8405837	302149	10000187.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
49	NEW YORK NY	8405837	302149	10000188.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
50	NEW YORK NY	8405837	302149	10000189.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
51	NEW YORK NY	8405837	302149	10000190.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
52	NEW YORK NY	8405837	302149	10000191.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
53	NEW YORK NY	8405837	302149	10000192.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
54	NEW YORK NY	8405837	302149	10000193.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
55	NEW YORK NY	8405837	302149	10000194.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
56	NEW YORK NY	8405837	302149	10000195.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
57	NEW YORK NY	8405837	302149	10000196.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
58	NEW YORK NY	8405837	302149	10000197.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
59	NEW YORK NY	8405837	302149	10000198.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
60	NEW YORK NY	8405837	302149	10000199.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
61	NEW YORK NY	8405837	302149	10000200.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
62	NEW YORK NY	8405837	302149	10000201.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
63	NEW YORK NY	8405837	302149	10000202.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
64	NEW YORK NY	8405837	302149	10000203.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
65	NEW YORK NY	8405837	302149	10000204.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
66	NEW YORK NY	8405837	302149	10000205.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
67	NEW YORK NY	8405837	302149	10000206.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
68	NEW YORK NY	8405837	302149	10000207.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
69	NEW YORK NY	8405837	302149	10000208.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
70	NEW YORK NY	8405837	302149	10000209.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
71	NEW YORK NY	8405837	302149	10000210.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
72	NEW YORK NY	8405837	302149	10000211.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
73	NEW YORK NY	8405837	302149	10000212.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
74	NEW YORK NY	8405837	302149	10000213.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
75	NEW YORK NY	8405837	302149	10000214.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
76	NEW YORK NY	8405837	302149	10000215.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
77	NEW YORK NY	8405837	302149	10000216.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
78	NEW YORK NY	8405837	302149	10000217.0	2016-01-09	Pink Cab	25.30	407.21	255.530	5.995257	2060.0	Male	Young	Mid income
79	NEW YORK NY	8405837	302149											

