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This dataset is all about transction amount by credicard of Indian people.
          import numpy as np
          import pandas as pd
          import matplotlib.pyplot as plt
          import seaborn as sns
          df=pd.read csv("Credit card transactions - India - Simple.csv")
          df.head()
           index
                              City
                                      Date Card Type Exp Type Gender Amount
         0
                         Delhi, India 29-Oct-14
                                               Gold
                                                                     82475
               1 Greater Mumbai, India 22-Aug-14
                                             Platinum
                                                                     32555
         2
                      Bengaluru, India 27-Aug-14
                                               Silver
                                                        Bills
                                                                 F 101738
               3 Greater Mumbai, India 12-Apr-14
         3
                                                                   123424
                                            Signature
         4
                      Bengaluru, India 5-May-15
                                               Gold
                                                        Bills
                                                                 F 171574
In [4]:
          df.info()
         <class 'pandas.core.frame.DataFrame'>
         RangeIndex: 26052 entries, 0 to 26051
         Data columns (total 7 columns):
         # Column Non-Null Count Dtype
          0 index 26052 non-null int64
1 City 26052 non-null object
2 Date 26052 non-null object
          3 Card Type 26052 non-null object
          4 Exp Type 26052 non-null object
          5 Gender 26052 non-null object
6 Amount 26052 non-null int64
         dtypes: int64(2), object(5)
         memory usage: 1.4+ MB
        In the data set there are 26052 records and 7 columns are available
          df['Card Type'].value_counts()
Out[5]: Silver 6840
         Signature 6447
         Platinum 6398
                     6367
         Gold
         Name: Card Type, dtype: int64
        silver, signature, platinum, gold these four types of cards are in dataset and count of each card
        is getting by value counts
In [6]:
          df['Exp Type'].value counts()
Out[6]: Food
         Fuel
                         5257
                         5078
         Bills
         Entertainment 4762
         Grocery 4754
Travel 738
         Travel
                          738
         Name: Exp Type, dtype: int64
        People expend on food, fuel, entertainment, grocery and travel. There are minimum people who
        expends on travel.
          df['City'].value_counts()
        Greater Mumbai, India 3493
Ahmedabad, India 3491
Delhi, India 3490
Out[7]: Bengaluru, India
        Hyderabad, India
                                   784
        Rayagada, India
Varanasi, India
                                    1
         Hugli-Chinsurah, India
         Alirajpur, India
         Fazilka, India
         Name: City, Length: 986, dtype: int64
        There are 986 cities in the dataset.
          # how many people uses gold card as credit card
          len(df[df['Card Type']=='Gold'])
Out[8]: 6367
        average expenditure on entertainment
          df[df['Exp Type'] == 'Entertainment']['Amount'].mean()
Out[9]: 152548.83158336833
        average expenditure on Travel
          df[df['Exp Type'] == 'Travel']['Amount'].mean()
Out[10]: 148042.833333333334
        how many people belongs to benguluru city and expend on food.
          len(df[(df['City']=='Bengaluru, India') & (df['Exp Type']=='Food')])
```

Out[11]: 805

average Transction amount by female only

## df[df['Gender'] == "M"]['Amount'].mean() Out[13]: 151109.14508567733

which 5 cities most uses Credit cards

df[df['Gender']=="F"]['Amount'].mean()

average transction amount by male only

Out[12]: 161206.9466374269

Out[14]: Bengaluru, India

Out[15]: 154631.62179990576

Delhi, India

Hyderabad, India

In [14]:

df['City'].value\_counts().head()

## Greater Mumbai, India 3493 Ahmedabad, India 3491 3482

Name: City, dtype: int64 what is average transction by gold card

df[df['Card Type'] == 'Gold']['Amount'].mean()

How many people that are transcted in 2014 by creditcard

## def fun(): count=0 for i in df['Date']:

if i.split('-')[-1]=='14': count+=1 print(count) fun() 15791