CUST_ID         BALANCE         BALANCE_F           0         C10001         40.900749           1         C10002         3202.467416           2         C10003         2495.148862           3         C10004         1666.670542           4         C10005         817.714335                8945         C19186         28.493517	0.818182 0.909091 1.000000 0.636364 1.000000 	95.40 0.00 773.17 1499.00 16.00 291.12	0.00 0.00 773.17 1499.00 16.00 0.00	95.40 0.00 0.00 0.00 0.00 291.12	0.000000 6442.945483 0.000000 205.788017 0.000000 	0.166667 0.000000 1.000000 0.083333 0.083333 1.000000	0.000000 0.000000 1.000000 0.083333 0.083333 0.000000
8946 C19187 19.183215 8947 C19188 23.398673 8948 C19189 13.457564 8949 C19190 372.708075 3950 rows × 18 columns mydata[:5]	1.000000 0.833333 0.833333 0.666667	300.00 144.40 0.00 1093.25	0.00 0.00 0.00 1093.25	300.00 144.40 0.00 0.00	0.000000 0.000000 36.558778 127.040008	1.000000 0.833333 0.000000 0.666667	0.000000 0.000000 0.000000 0.666667
0       C10001       40.900749       0         1       C10002       3202.467416       0         2       C10003       2495.148862       1         3       C10004       1666.670542       0	0.818182 0.909091 1.000000	95.40 0.00 773.17	0.00 0.00 773.17 1499.00 16.00	95.4 0.0 64 0.0	0.000000 0.000000 0.000000 0.000000 0.000000	0.166667 0.000000 1.000000 0.083333 0.083333	0.000000 0.000000 1.000000 0.083333 0.083333
len(mydata) 8950 mydata.isnull() CUST_ID BALANCE BALANCE_FRE	EQUENCY PURC	CHASES ONEOFF_PURC	CHASES INSTALLMENTS_P	JRCHASES CASH	1_ADVANCE PURCHAS	SES_FREQUENCY ONEOFF_PUR	CHASES_FREQUENCY PURCHASES
<ul> <li>Palse</li> </ul>	False False False False False False	False False False False False False False	False False False False False False False False	False False False False False False False	False False False False False False False	False False False False False False False False	False False False False False False False False False
8946 False False 8947 False False 8948 False False 8949 False False 8950 rows × 18 columns  mydata.MINIMUM_PAYMENTS.isnull()	False False False False	False False False False	False False False False	False False False False	False False False False	False False False False	False False False False False
0 False 1 False 2 False 3 True 4 False 8945 False 8946 True 8947 False 8948 False 8949 False Name: MINIMUM_PAYMENTS, Length: 88	950, dtype: b	ool					
mydata[mydata.MINIMUM_PAYMENTS.is           CUST_ID         BALANCE         BALANCE_FI           3         C10004         1666.670542         1666.670542           45         C10047         2242.311686         1686           47         C10049         3910.111237         1666.660517           54         C10057         1311.995984         1311.995984		RCHASES ONEOFF_PU  1499.00  437.00  0.00  310.00  1283.90	PRCHASES INSTALLMENTS_  1499.00  97.00  0.00  0.00  1283.90	0.0 340.0 0.0 310.0 0.0	SH_ADVANCE PURCH 205.788017 184.648692 1980.873201 0.000000 0.000000	0.083333 0.333333 0.000000 0.666667 0.250000	0.083333 0.083333 0.000000 0.000000 0.250000
	0.333333 0.333333 1.000000 0.833333 1.000000	152.00 0.00 465.90 1012.73 300.00	1233.30  152.00 0.00 0.00 1012.73 0.00	0.0 0.0 0.0 465.9 0.0 300.0	0.000000 1465.407927 0.000000 0.000000 0.000000	 0.333333 0.000000 1.000000 0.333333 1.000000	0.333333 0.000000 0.000000 0.333333 0.000000
<pre>print(mydata.CUST_ID[0]) C10001 mydata CUST_ID BALANCE BALANCE_F</pre>							IRCHASES_FREQUENCY PURCHAS
0       C10001       40.900749         1       C10002       3202.467416         2       C10003       2495.148862         3       C10004       1666.670542         4       C10005       817.714335              8945       C19186       28.493517	0.818182 0.909091 1.000000 0.636364 1.000000 	95.40 0.00 773.17 1499.00 16.00  291.12	0.00 0.00 773.17 1499.00 16.00 	95.40 0.00 0.00 0.00 0.00 291.12	0.000000 6442.945483 0.000000 205.788017 0.000000 0.000000	0.166667 0.000000 1.000000 0.083333 0.083333 1.000000	0.000000  1.000000  0.083333  0.083333   0.000000
8946       C19187       19.183215         8947       C19188       23.398673         8948       C19189       13.457564         8949       C19190       372.708075         3950 rows × 18 columns             print(mydata.MINIMUM_PAYMENTS[3])	1.000000 0.833333 0.833333 0.666667	300.00 144.40 0.00 1093.25	0.00 0.00 0.00 1093.25	300.00 144.40 0.00 0.00	0.000000 0.000000 36.558778 127.040008	1.000000 0.833333 0.000000 0.666667	0.000000 0.000000 0.000000 0.666667
meta=pd.read_csv("bank_transaction  meta  TransactionID CustomerID			on CustAccountBalance Tra	ansactionDate Tra 2/8/16	nsactionTime Transac	tionAmount (INR)	
1       T2       C2142763         2       T3       C4417068         3       T4       C5342380         4       T5       C9031234              1048562       T1048563       C8020229         1048563       T1048564       C6459278         1048564       T1048565       C6412354         1048565       T1048566       C6420483         1048566       T1048567       C8337524	4/4/57 26/11/96 14/9/73 24/3/88 8/4/90 20/2/92 18/5/89 30/8/78 5/3/84	M JHAJJAI F MUMBA F MUMBA F NAVI MUMBA M NEW DELF M NASHII M HYDERABAI M VISAKHAPATNAI M PUNI	AI 17874.44 AI 866503.21 AI 6714.43 HI 7635.19 K 27311.42 D 221757.06 M 10117.87	2/8/16 2/8/16 2/8/16 2/8/16 18/9/16 18/9/16 18/9/16 18/9/16	141858 142712 142714 181156 184824 183734 183313 184706 181222	27999.0 459.0 2060.0 1762.5  799.0 460.0 770.0 1000.0 1166.0	
D048567 rows × 9 columns  meta.CustomerID.value_counts()  C5533885 6 C6624352 6 C1736254 6 C6735477 6 C1113684 6							
C8716232 1 C4474828 1 C3341662 1 C6821983 1 C6420483 1 Name: CustomerID, Length: 884265,  import numpy as np import datetime	dtype: int64						
<pre>date1 = pd.Series(pd.date_range(' df = pd.DataFrame(dict(date_giver print(df))</pre>	n=date1))		freq='M'))				
df  date_given day_of_week_in_nur  0 2012-01-31 12:00:00  1 2012-02-29 12:00:00  2 2012-03-31 12:00:00	1 2 5						
<pre>3  2012-04-30 12:00:00 4  2012-05-31 12:00:00 5  2012-06-30 12:00:00 6  2012-07-31 12:00:00  from dateutil.relativedelta imporfrom datetime import date</pre>	0 3 5 1 rt relativede	lta					
<pre>date1 = pd.Series(pd.date_range(' date2 = pd.Series(pd.date_range(' df = pd.DataFrame(dict(Start_date  df</pre>	2013-3-11 21 e = date1, En	:45:00', periods=7,					
1       2012-02-29 12:00:00       2013-03-24 21:45:00         2       2012-03-31 12:00:00       2013-03-31 21:45:00         3       2012-04-30 12:00:00       2013-04-07 21:45:00         4       2012-05-31 12:00:00       2013-04-14 21:45:00         5       2012-06-30 12:00:00       2013-04-21 21:45:00         6       2012-07-31 12:00:00       2013-04-28 21:45:00							
<ul> <li>2012-01-31 12:00:00 2013-03-17 21:45:00</li> <li>2012-02-29 12:00:00 2013-03-24 21:45:00</li> </ul>	diff_seconds 35545500.0 33644700.0	delta64(1,'s')					
<pre>2 2012-03-31 12:00:00 2013-03-31 21:45:00 3 2012-04-30 12:00:00 2013-04-07 21:45:00 4 2012-05-31 12:00:00 2013-04-14 21:45:00 5 2012-06-30 12:00:00 2013-04-21 21:45:00 6 2012-07-31 12:00:00 2013-04-28 21:45:00  df['diff_hours'] = df['End_date'] df['diff_hours']=df['diff_hours']</pre>	- df['Start						
0       2012-01-31 12:00:00       2013-03-17 21:45:00         1       2012-02-29 12:00:00       2013-03-24 21:45:00         2       2012-03-31 12:00:00       2013-03-31 21:45:00         3       2012-04-30 12:00:00       2013-04-07 21:45:00         4       2012-05-31 12:00:00       2013-04-14 21:45:00         5       2012-06-30 12:00:00       2013-04-21 21:45:00	diff_seconds	9873.75 9345.75 8769.75 8217.75 7641.75					
6 2012-07-31 12:00:00 2013-04-28 21:45:00 import nbconvert	23449500.0	6513.75					