Anomaly Detection in Credit Card Transactions

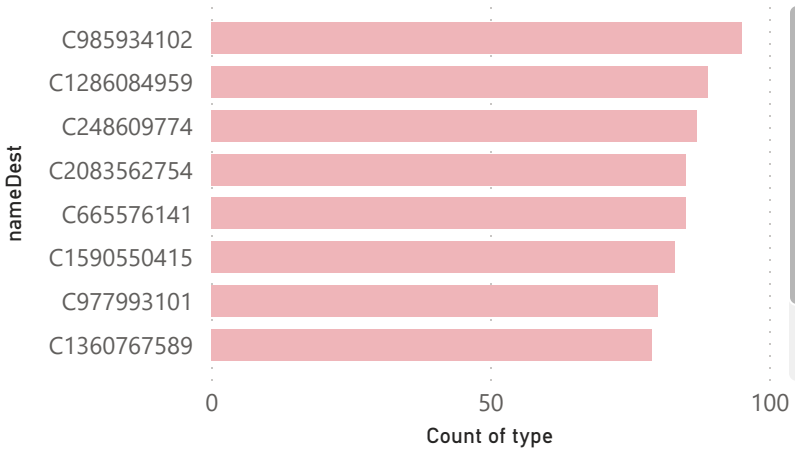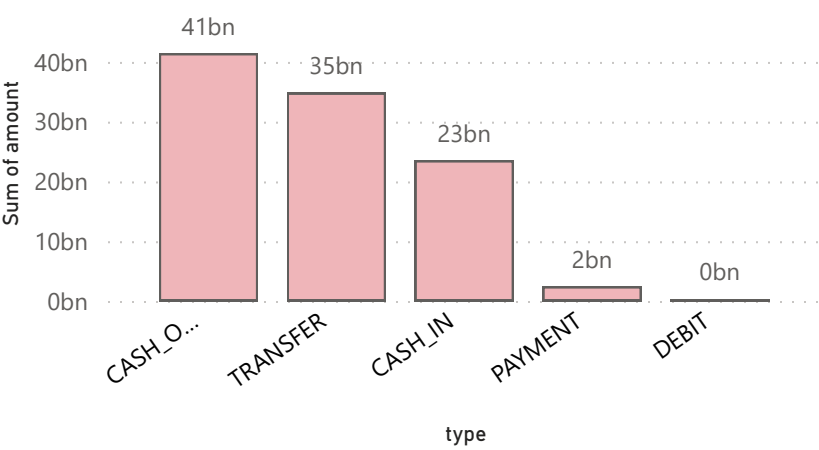|	
881.59K Average fraud transactions	**6.42M** Highest normal transaction amount
161.50K Average normal transactions	**10.00M** Highest fraud transaction amount
631K Total number of redit card transactio...	**3.58M** Difference between fraud and normal...
383 Total number of fraud credit card tr...	**0.06** Percentage of fradulent transati...

isFraud
- [ ] 0
- [ ] 1

type
All

nameDest	Sum of isFraud
C1000015936	0
Total	**383**

The transaction amount over time step

type ● CASH_IN ● CASH_OUT ● DEBIT ● PAYMENT ● TRANSFER

Highest number of transactions

Distribution of transaction amounts
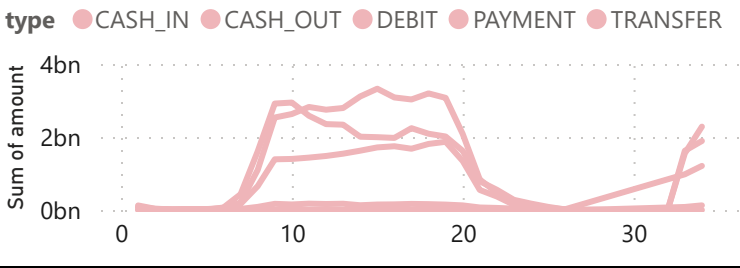
isFraud, oldbalanceOrg and amount

isFraud ● 0 ● 1
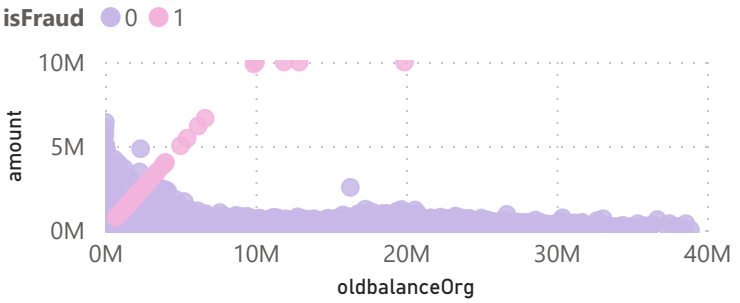
SUMMARY

- Upon analyzing credit card transactions, a significant number of fraudulent activities have been uncovered within the dataset.
- The total number of transaction were 630894.
- The number of fraud transaction were recorded as 383 which is 0.6% of transactions.
- Transactions were into five types as- cash in, cash out, debit, payment, and transfer, where among them the cash out and transfer has the most transaction amount.
- 'PAYMENT' has noticeably more nameDest .
- 'Cash out' accounts for the majority of newbalanceDest.
- 'Transfer' as the most Highest normal transactions.
- The line chart reveals that the time step between 0-20 has high cash out transactions as compare to the others.
- In the bar chart the nameDest are shown with the top 10 transaction amount.