

DAX

161,500.50

avg_normal

881,588.20

avg_fraudulent

630894

credit_card_tx

383

fraud_credit_card_tx

10,000,000.00

highest_fraud_tx_amt

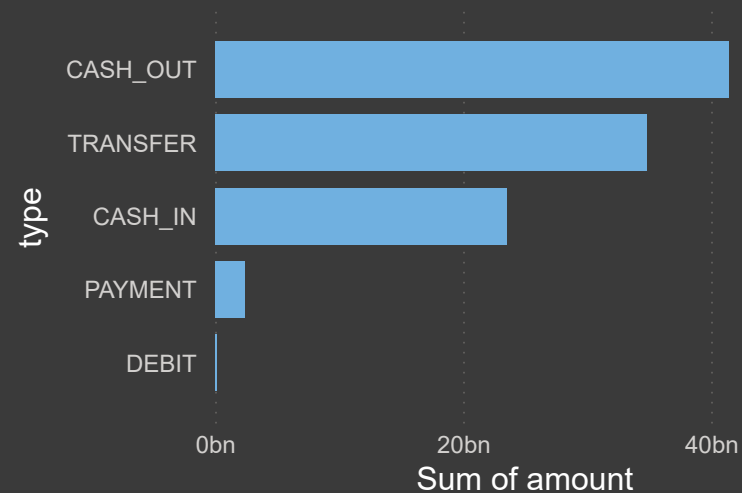
3,580,164.73

difference_max_tx_amt

6.07%

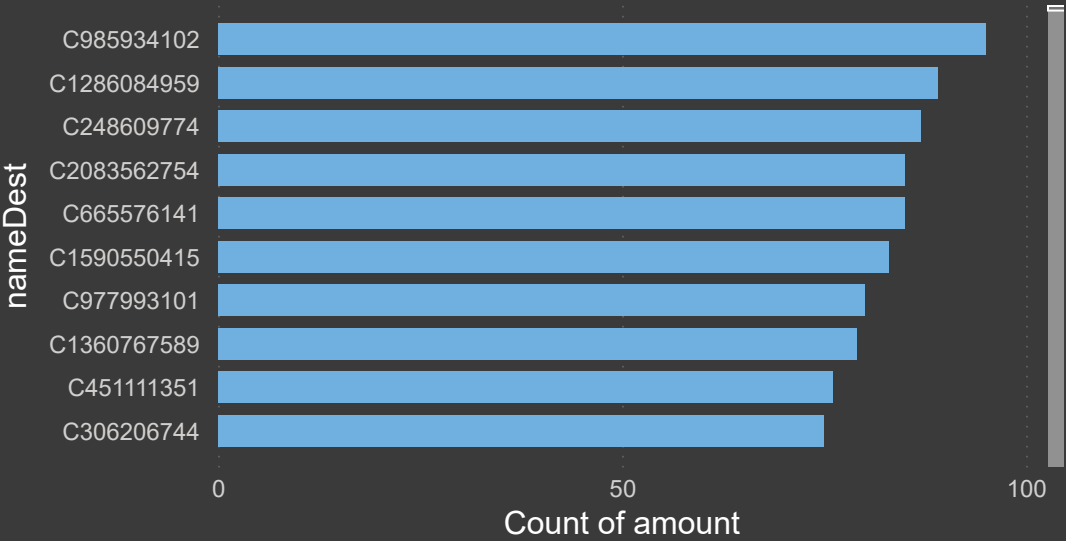
percent_fraud_tx

Sum of amount by type

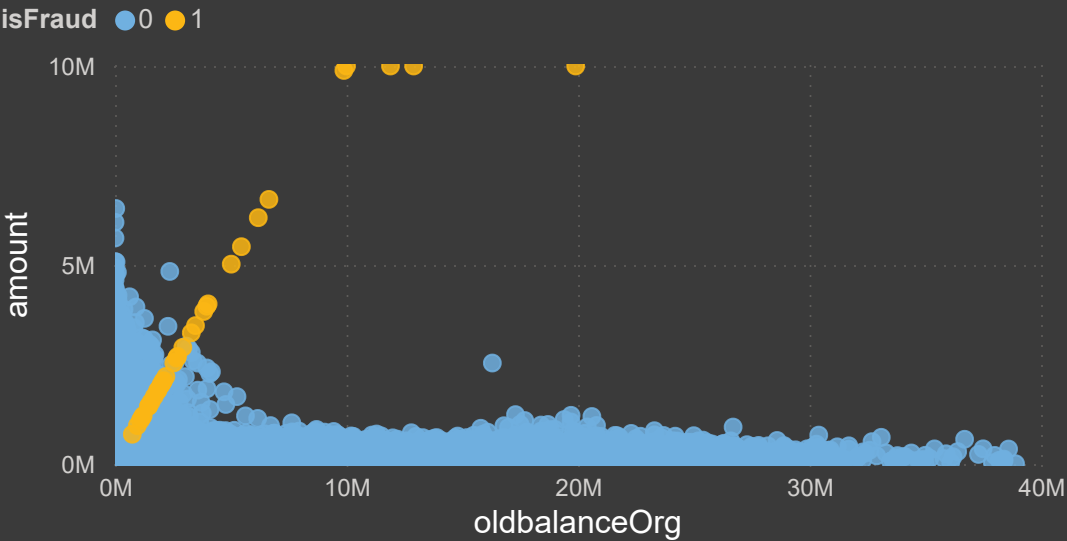


VISUALIZATIONS

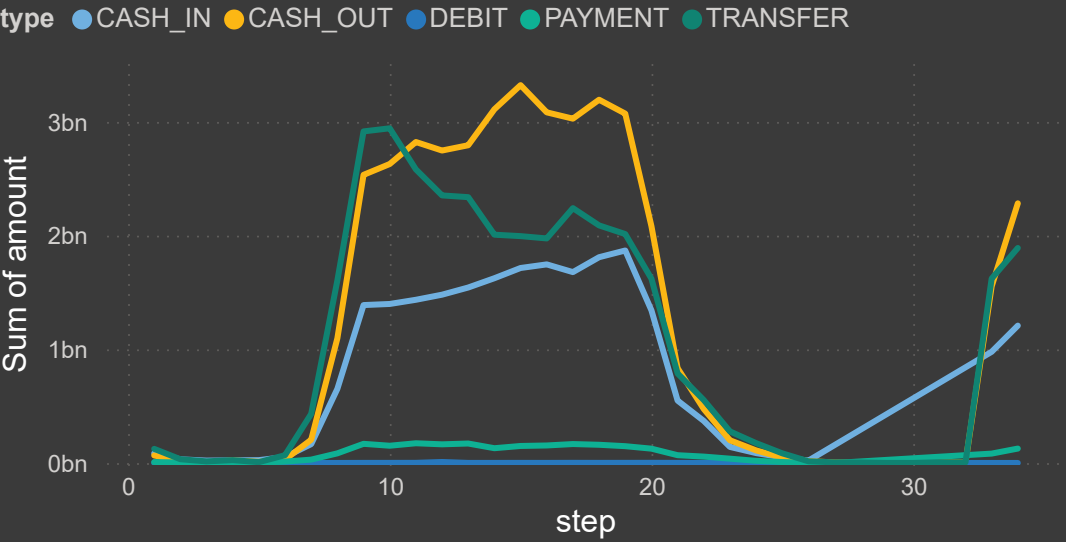
Count of amount by nameDest



isFraud, oldbalanceOrg and amount



Sum of amount by step and type



nameDest	Count of amount
C185805228	2
C200064275	2
C410033330	2
Total	6

Anomaly Detection in Credit Card Transactions Dashboard

Average transaction amount for normal transaction

161.50K

Average transaction amount for fraudulent transactions

881.59K

Credit card transactions recorded

631K

Fraudulent credit card transactions

383

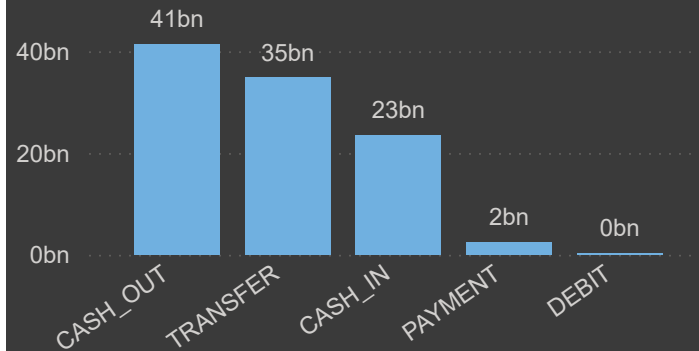
Highest Fraudulent transaction amount recorded

10.00M

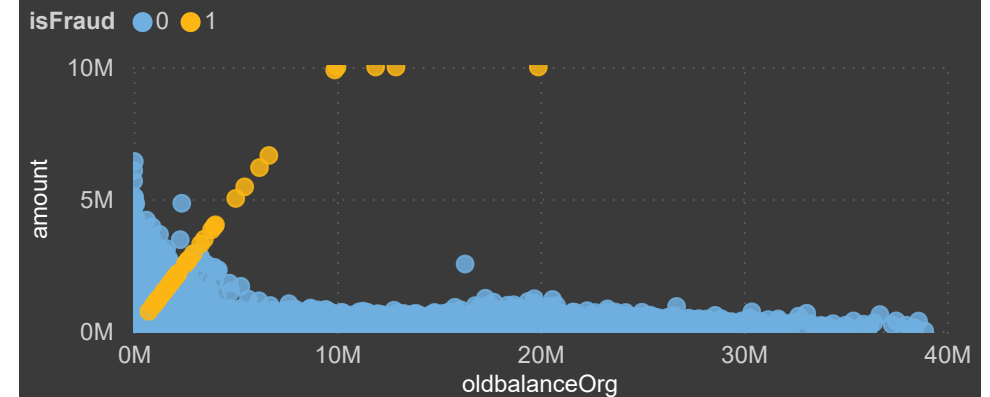
Difference in the max txn amount for normal and fraudulent txn

3.58M

Distribution of transaction amounts



OldbalanceOrg VS amount columns



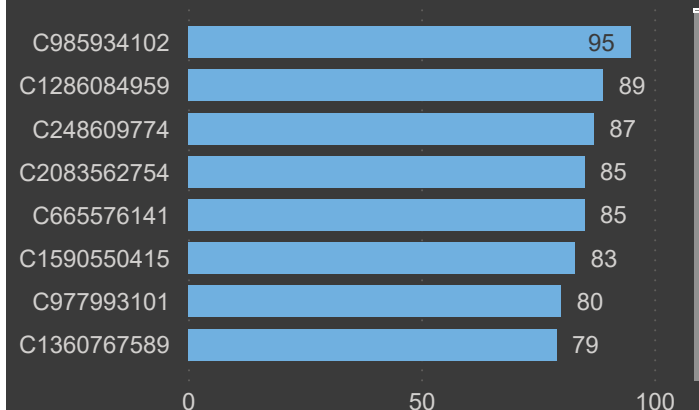
Percentage of fraudulent transactions

6.07%

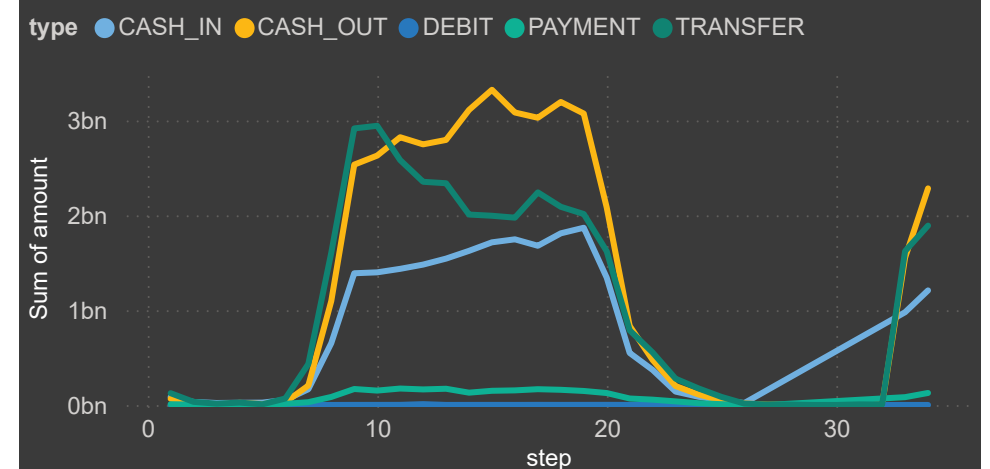
Merchants with a high occurrence of fraudulent txn

nameDest	Count of amount
C185805228	2
C200064275	2
C410033330	2
Total	6

Merchants with highest number of transactions



Transaction amount over time



SUMMARY AND CONCLUSION

Upon completion of the project, the following key points can be inferred:

- . The average transaction amount for normal transactions is \$161,500.50, whereas for fraudulent transactions, it is \$881,588.20.
- . The dataset contains a total of 630,894 credit card transactions, out of which 383 are fraudulent.
- . The highest recorded fraudulent transaction amount is \$10,000,000.
- . The difference between the maximum transaction amount for normal transactions and fraudulent transactions is \$3,580,164.73.
- . CASH_OUT transactions are the most common compared to other types.
- . Merchant C985934102 has the highest number of transactions.
- . Some outliers are visible in the scatter plot between oldbalanceOrg and amount.
- . Spikes can be observed in the line chart plotting amount against step.
- . Merchants C185805228, C200064275, and C41003330 have a high occurrence of fraudulent transactions.
- . The charts used in the visualizations are effective in visualizing the problem, as they provide a better understanding of the dataset and the trends.