161,500.50 881,588.20 630

avg_fraudulent

630894

credit_card_tx

383
fraud credit card tx

10,000,000.00

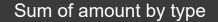
highest fraud tx amt

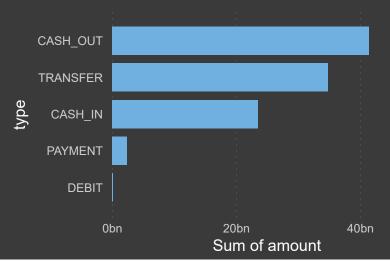
3,580,164.73

difference_max_tx_amt

6.07%

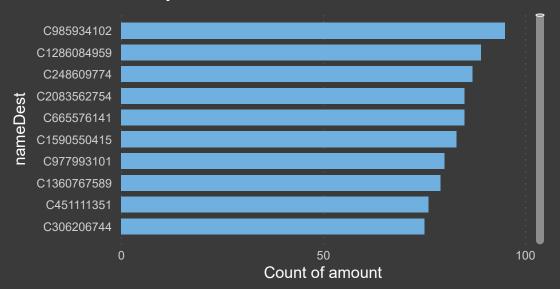
percent_fraud_tx



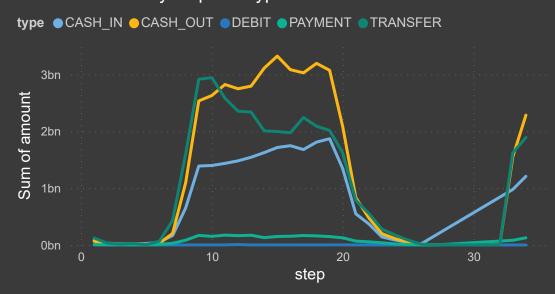


VISUALIZATIONS

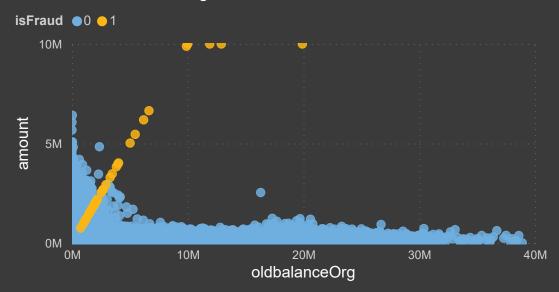
Count of amount by nameDest



Sum of amount by step and type



isFraud, oldbalanceOrg and amount



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

Highest Fraudulent transaction amount recorded

10.00M

Difference in the max txn amount for normal and fraudulent txn

3.58M

Percentage of fraudulent transactions

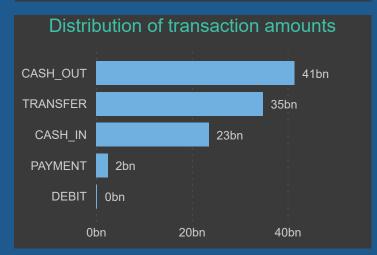
6.07%

Merchants with a high occurrence of fraudulent txn

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

Average transaction amount for fraudulent transactions

881.59K



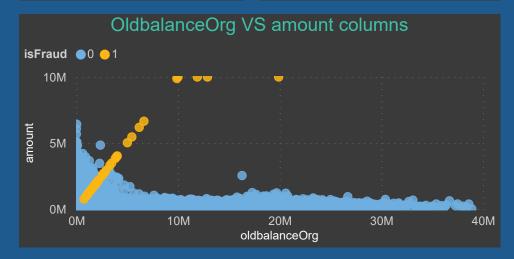


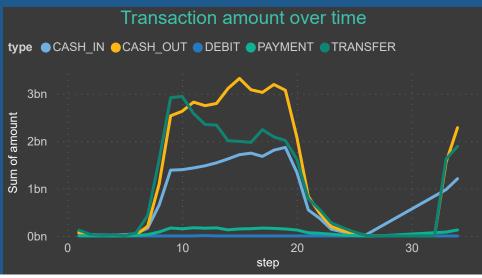
Credit card transactions recorded

631K

Fraudulent credit card transactions

383





SUMMARY AND CONCLUSION

After completion of the project, following points can be inferred:-

- •The average transaction amount for normal transaction is \$161500.50 whereas for fraudulent it is \$881588.20
- •Total number of credit card transaction in the dataset is 630894among which fraudulent credit transactions are 383
- •The highest fraud transaction amount recorded was \$10000000
- Difference between maximum transaction amount for normal transactions compared to fraudulent transactions is \$3580164.73
- •CASH_OUT transactions are done most compared to other types
- •Merchant C985934102 has the highest number of transaction
- ·Some outliers can be seen in the scatter plot between oldbalanceOrg and amount
- ·Spikes can be observed on plotting line chat between amount and step
- •Merchants C185805228, C200064275, C41003330 have high occurrence of fraudulent transactions
- •The charts used in the visualizations are best to visualize the problem as these charts helps us get a better understanding of the dataset and the trends