

Anomaly Detection in Credit Card Transactions Dashboard



- Parameter
- ☐ Countofcreditcard
- ☐ Countoffraudtrans
- ☐ Normalamountrans
- ☐ Fraud_transactions

161.50K

Normalamountrans

881.59K

Fraud_transactions

631K

Countofcreditcard

383

Countoffraudtrans

10.00M

Highest_fraud_trans

6.42M

Highest_Normal_trans

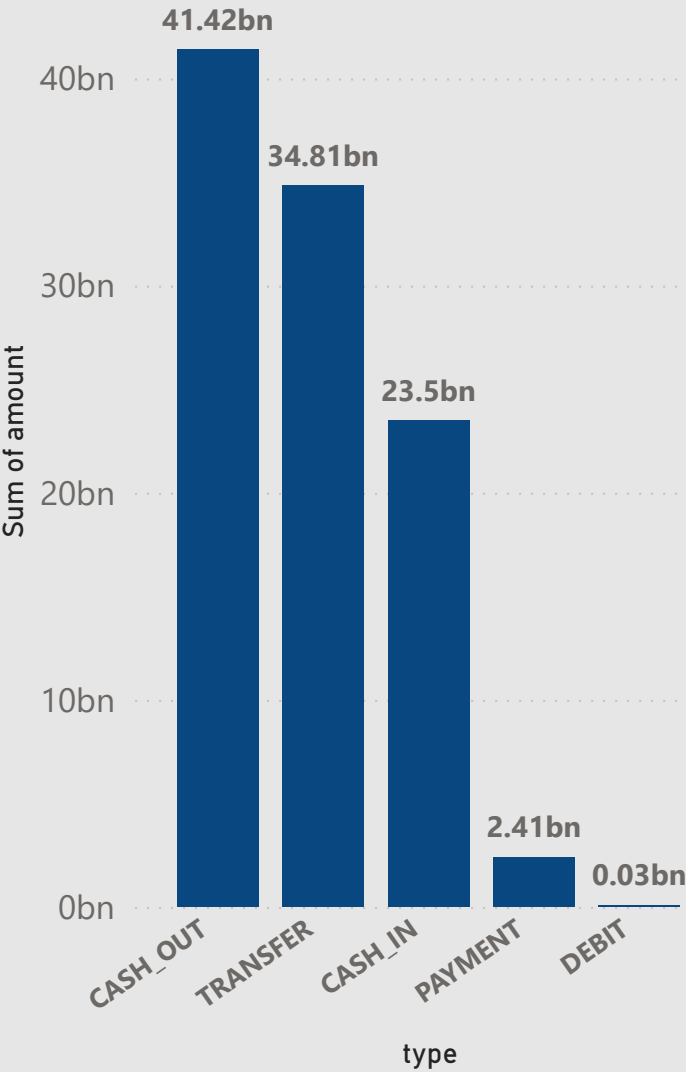
0.06%

%offraud_trans

TYPE

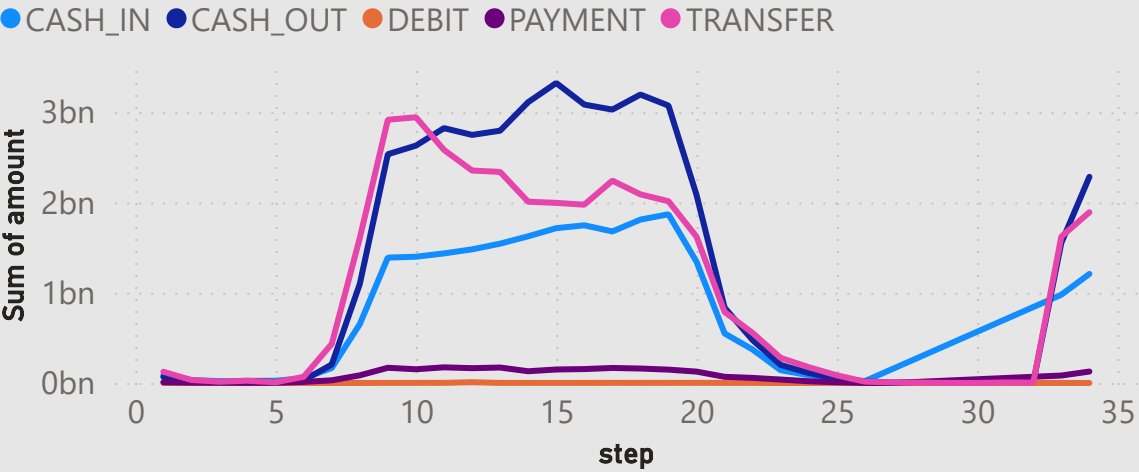
All

Distributions Of Transactions Amount

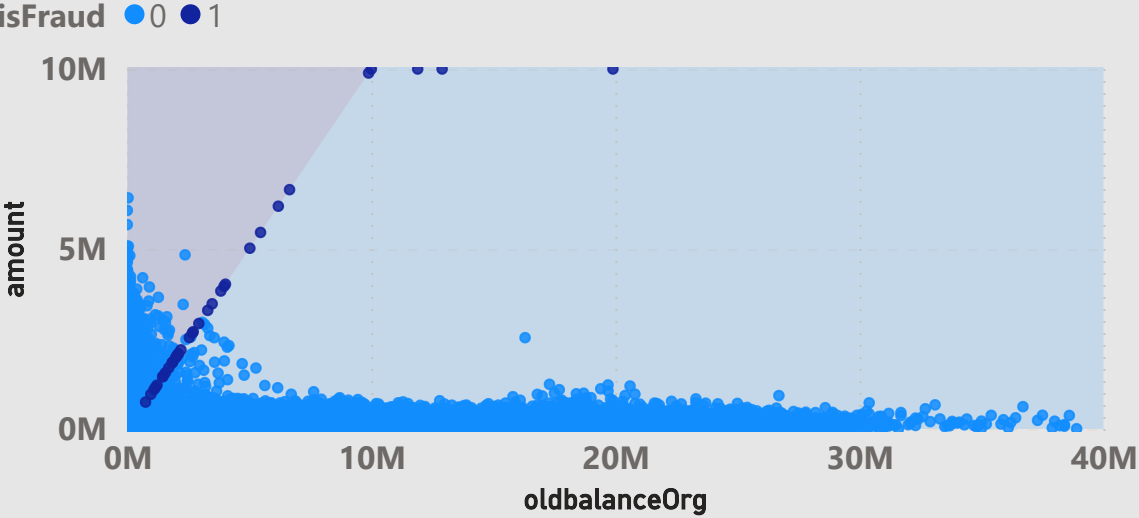


Merchants id	Countofcreditcard
M1002397229	2
M1084679935	2
M1146045332	2
M1193574469	2
M1291225334	2
M134992544	2
M1410596183	2
M1486662162	2
M1498929187	2
M1700096287	2
M1789180334	2
M605544821	2
M647711936	2
M677494625	2
M803988075	2

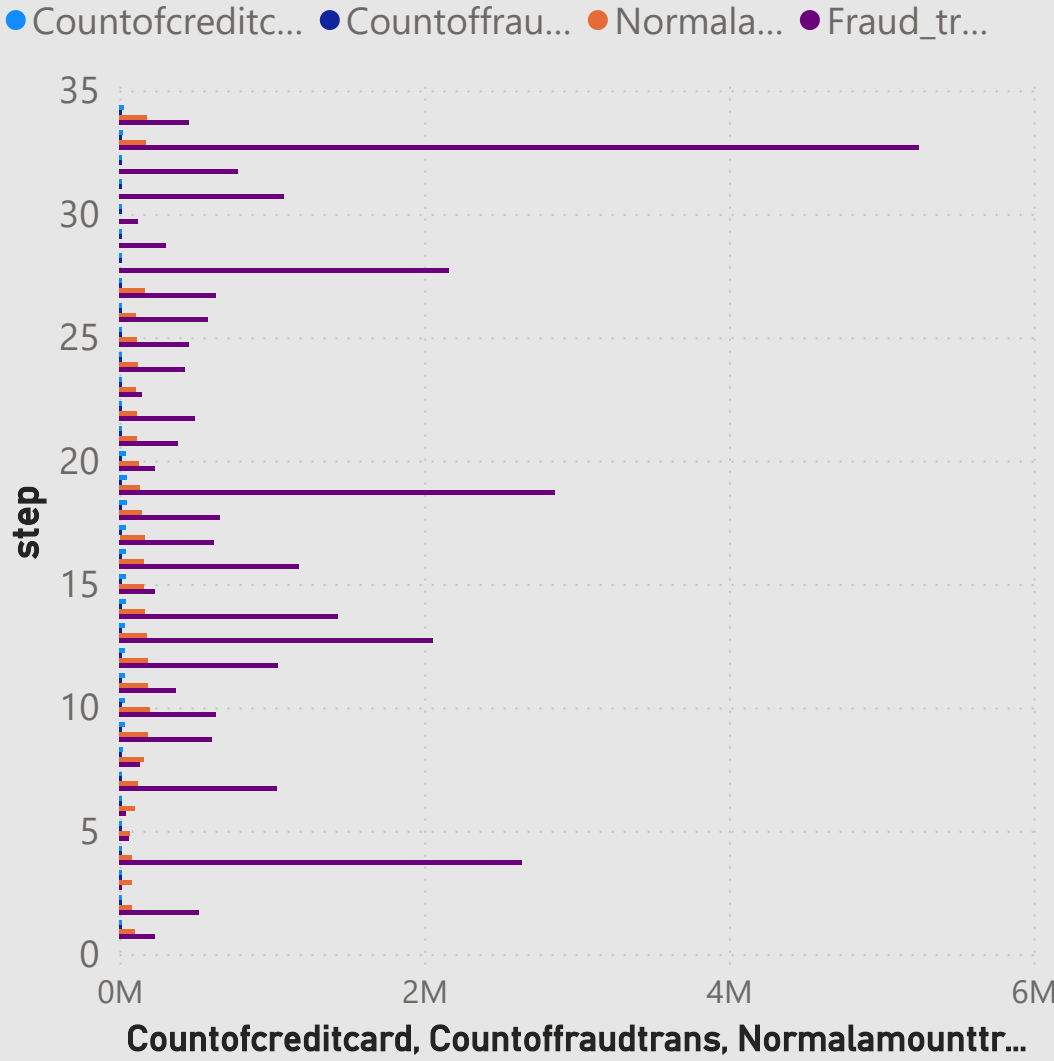
Sum of amount by step and type



isFraud, oldbalanceOrg and amount



Countofcreditcard, Countoffraudtrans, Normalamountrans and Fraud_transactions by step



SUMMARY SECTION

KEY INSIGHTS

1. There are 5 types of transactions in this dataset, which are Transfer, Cash-in, Cash-out, Debit, Payments.
2. Total number of transactions are 6,30,894 Were recorded in the dataset.
3. The total number of fraud transactions are 383.
4. Total percentage of the fraudulent transaction is 0.06%.
5. The Highest Fraud Transaction is of 10 millions.
6. Highest number of transactions are from cash-out Type, and the lowest transactions are of debit type.
7. There are no merchants of high occurrence of fraudulent transactions.

SUMMARY OF THE DASHBOARD

1. **DISTRIBUTION OF TRANSACTIONS AMOUNT (STACKED COLUMN CHART)** where there are sum of amount and types of transactions.
2. Top 10 merchants with highest number of transactions using table.
3. **SUM OF AMOUNT BY STEP (LINE CHART)** Where there is sum of amount and step.
4. **SUM OF OLDBALANCEORG AND SUM OF AMOUNT (SCATTER CHART)** where in the "X" axis it is sum of oldbalanceorg and in the "Y" axis it is sum of amount and in the values it is amount.
5. **NORMAL AMOUNT TRANSACTIONS CARD, FRAUD TRANSACTIONS CARD, COUNT OF CREDIT CARD, COUNT OF FRAUD TRANSACTIONS CARD, HIGHEST FRAUD TRANSACTIONS CARD, HIGHEST NORMAL TRANSACTIONS CARD AND % OF FRAUD TRANSACTIONS CARD.**

KEY INSIGHTS OF THE MENTION CHARTS IN THE DASHBOARD

Clustered Column Chart:

- Ideal for showing the distribution of transaction amounts, helping to identify patterns and anomalies.

Scatter Plot:

- Effective for visualizing relationships between 'oldbalanceOrg' and 'amount,' potentially revealing anomalies.

Line Chart:

- Useful for observing trends over time, identifying unusual spikes or drops in transaction amounts.

Table:

- Presents a clear comparison of transaction counts for different merchants.

These charts provide a balance between clarity, interpretability, and the ability to spot anomalies in credit card transactions.