Fraud Detection

Key findings

* Total number of transactions 6362620 rows.
* Total no of fraud transaction are 8213.
* Fraud Transaction belongs to only two types i.e cash\_out and transfer.
* Majority of fraud transfer have newbalanceOrig as 0.00 (8053/8213).
* Majority of fraud transfer have amount==oldbalanceOrg (8034/8213).
* 65% of fraud transaction have oldbalanceDest as 0.00 (5351/8213).
* 49% of fraud transaction have newbalanceDest as 0.00(4091/8213).
* 65% of fraud transaction have newbalanceDest !=oldbalanceDest+oldbalanceOrg

(5339/8213).

* 64% of fraud transaction have newbalanceDest!=oldbalancedest+amount (5324/8213).
* No transaction related to merchant as destination is fraud.Also there are zero entries merchant as origin.

Key Observation:

* Condition 1:100% of transactions are fraud whose “ amount== oldbalanceOrg ”.

We can find 8034 out of 8213 fraud transaction with these observation.

* Condition 2: 100% of transactions are fraud whose ‘newbalanceDest==0’ and “amount ==10000000”.

We can find further 145 fraud transaction with these condition (145 out of remaining 179).