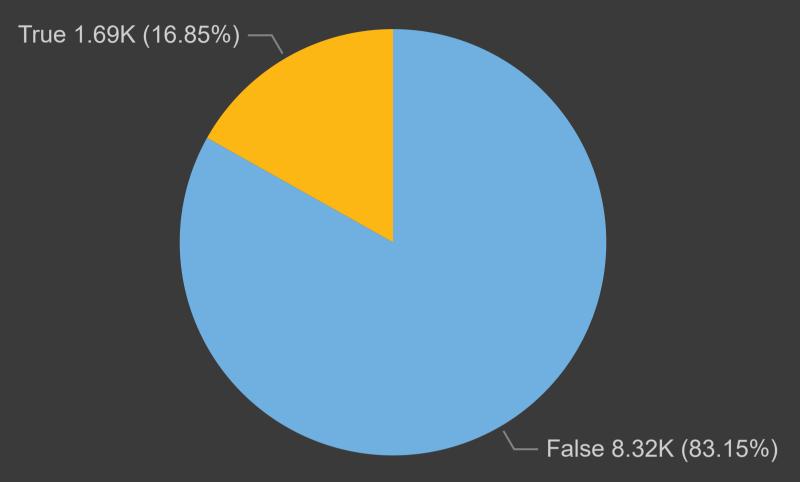
IS_FRAUD

False

True

Accounts with Fraudulent Activity





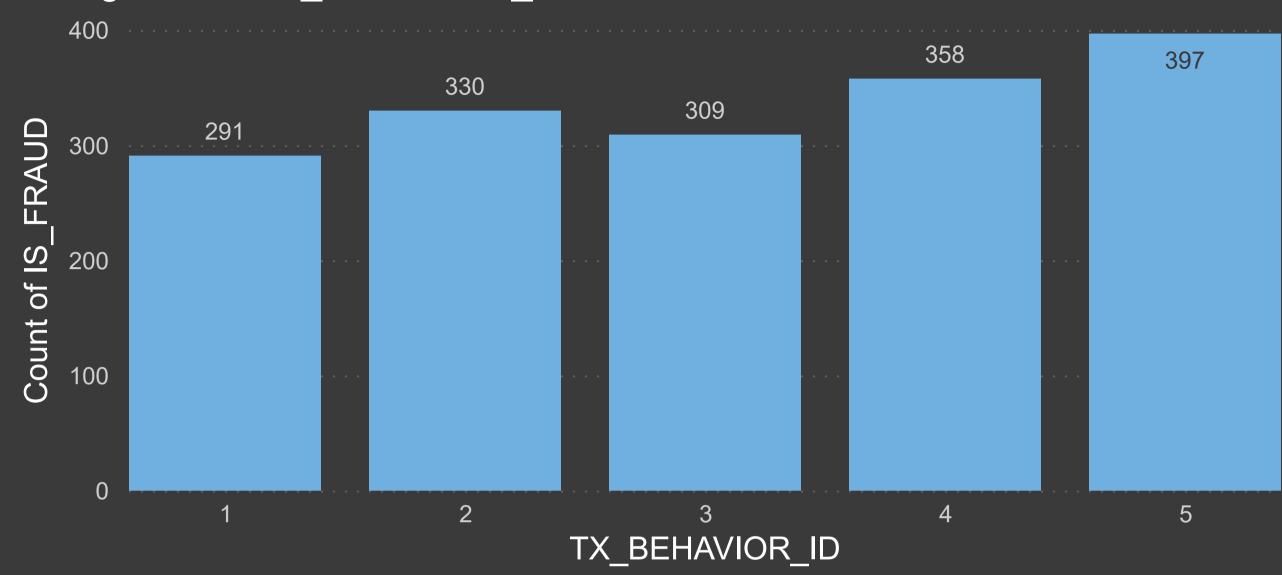
Select all False

✓ True

Fraud Slicer

ACCOUNT_ID	INIT_BALANCE	TX_BEHAVIOR_ID
49	196.75	1
67	138.49	1
86	181.16	1
91	157.97	1
113	157.39	1
138	135.03	1
153	167.62	1
177	128.79	1
182	171.56	1
189	123.94	1
236	279.34	1
258	331.07	1
314	297.72	1
316	335.86	1
344	281.18	1
Total	468,698.48	1685

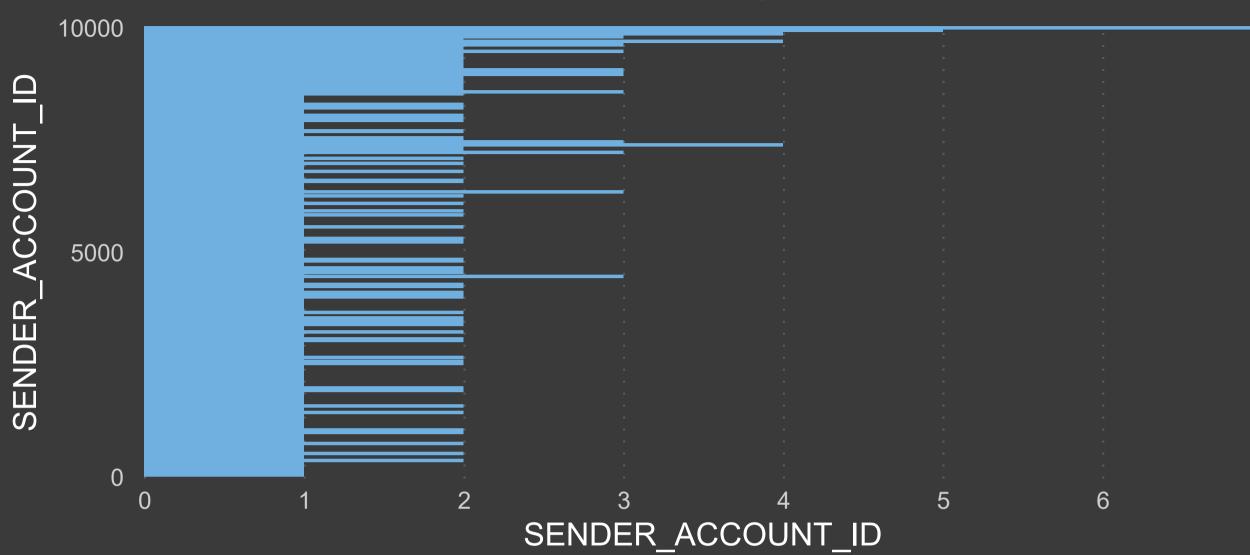
Categories of TX_BEHAVIOR_ID



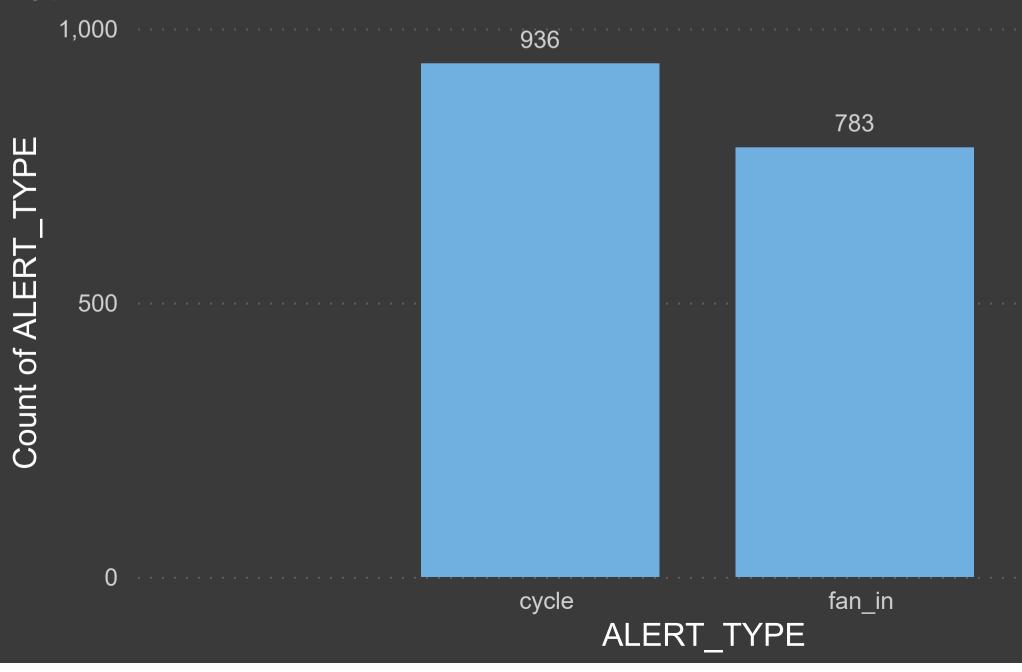
Observation:

- Out of 10k accounts, 1.69k accounts are flagged with Fraudulent Activity
- •TX_BEHAVIOR_ID has 5 categories and the highest number of accounts with Fraudulent activity is under the 5th category





Types of Alert



No. of times a Fraudulent Transaction done by Receiver

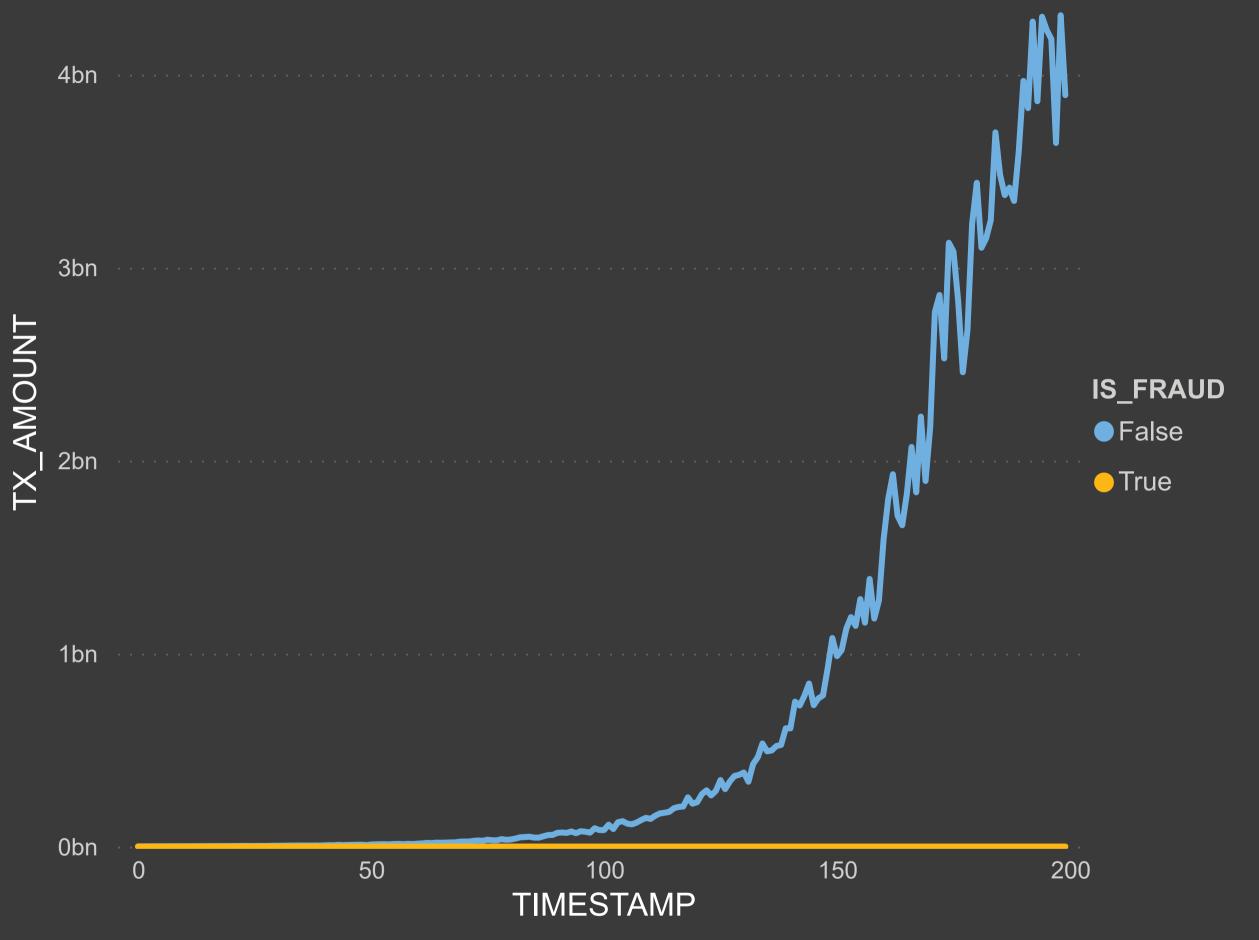


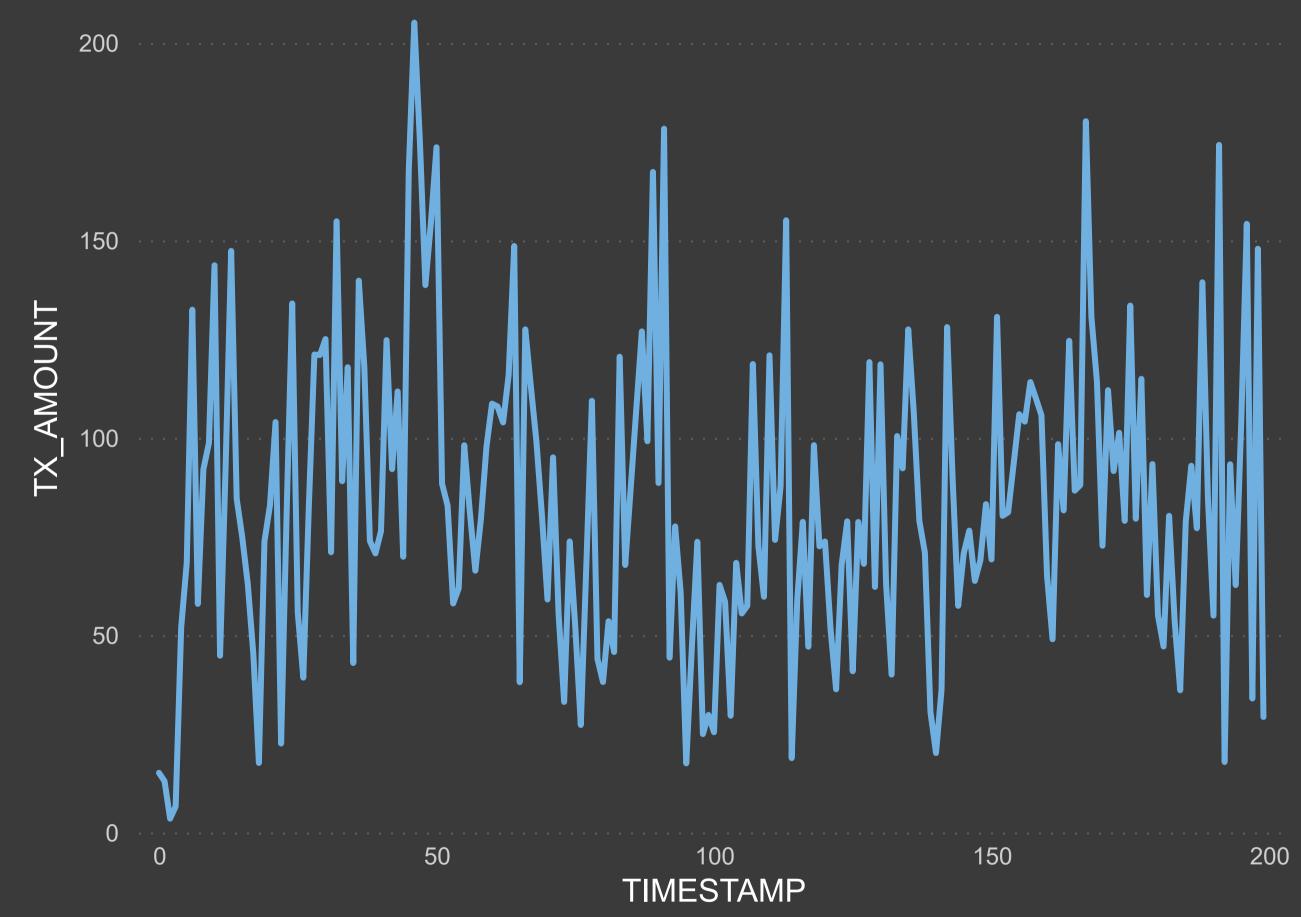
Observation:

- The maximum times an account is involved in fraudulent activitiy while sending an amount is 7
- The maximum times an account is involved in fraudulent activitiy while receiving an amount is 8

Transaction Amount by Timestamp

Transaction Amount by Timestamp (Only Fraudulent)



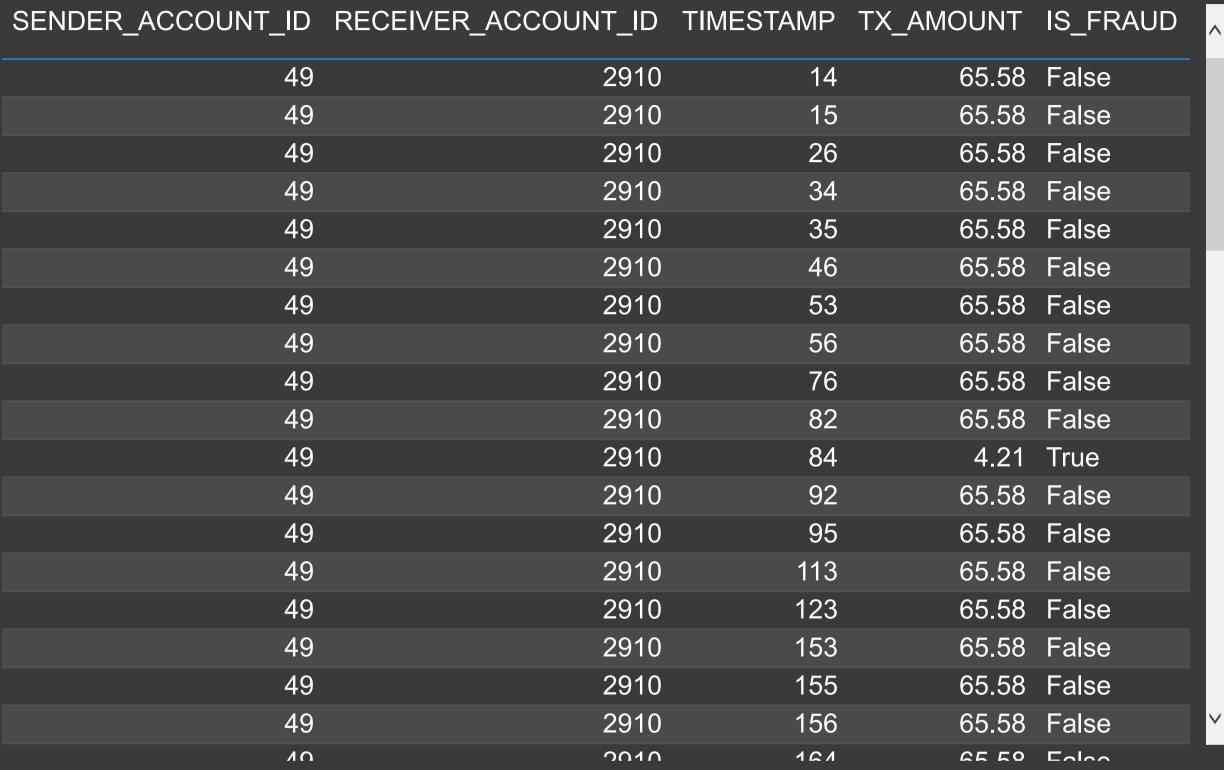


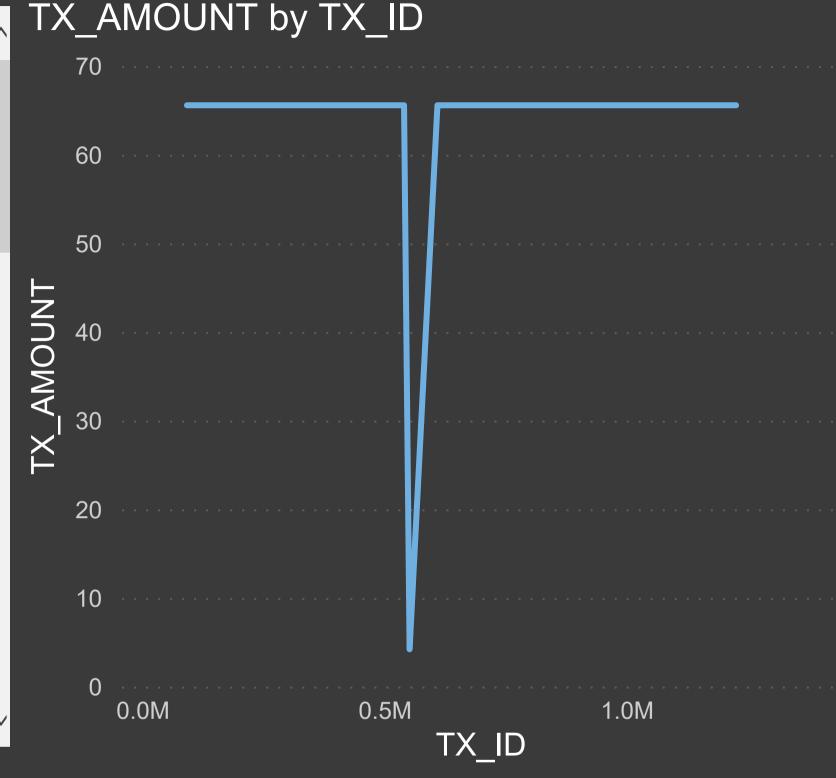
Observation:

- · Compared to normal transactions the amount involved in Fraudulent activity is very tiny
- The maximum transaction amount being 205.17

Fraud Slicer
Select all
✓ False
✓ True
Sender A/c Slicer
Select all
□ 1
□ 2
□ 3
4
□ 5
☐ 6
□ 7
□ 8
9
<u> </u>
☐ 11

15





Observation:

- The Fraud Algorithm filters transactions that are abnormal or small compared to the normal course of transactions
- · So if a transaction is out of the ordinary the same is flagged by the system as fraudulent

Ways to identify or mitigate financial crimes

- · Developing an AML transaction monitoring and remediation process and continuous updating of such policies based on new trends and laws.
- Matching KYC Data against Watchlists and Databases of Known or Suspected Fraudulent Activities.
- Continuous Monitoring of transactions.
- Usage of Machine Learning Techniques to learn patterns between normal and abnormal transactions can help in predicting financial crimes before they take place.
- Usage of Cloud Computing to help manage data for aspects like performing know your customer AML activities, risk-scoring, etc.
- Usage of Automation as most financial crimes are performed when human interaction is involved. Removal of human interaction by automation can greatly reduce financial crimes.
- Usage of Graph Analytics to analyse and find hidden linkages.