

Anomaly Detection Analysis in Credit Card

isFraud, t...

☒ 0

☒ 1

type

All

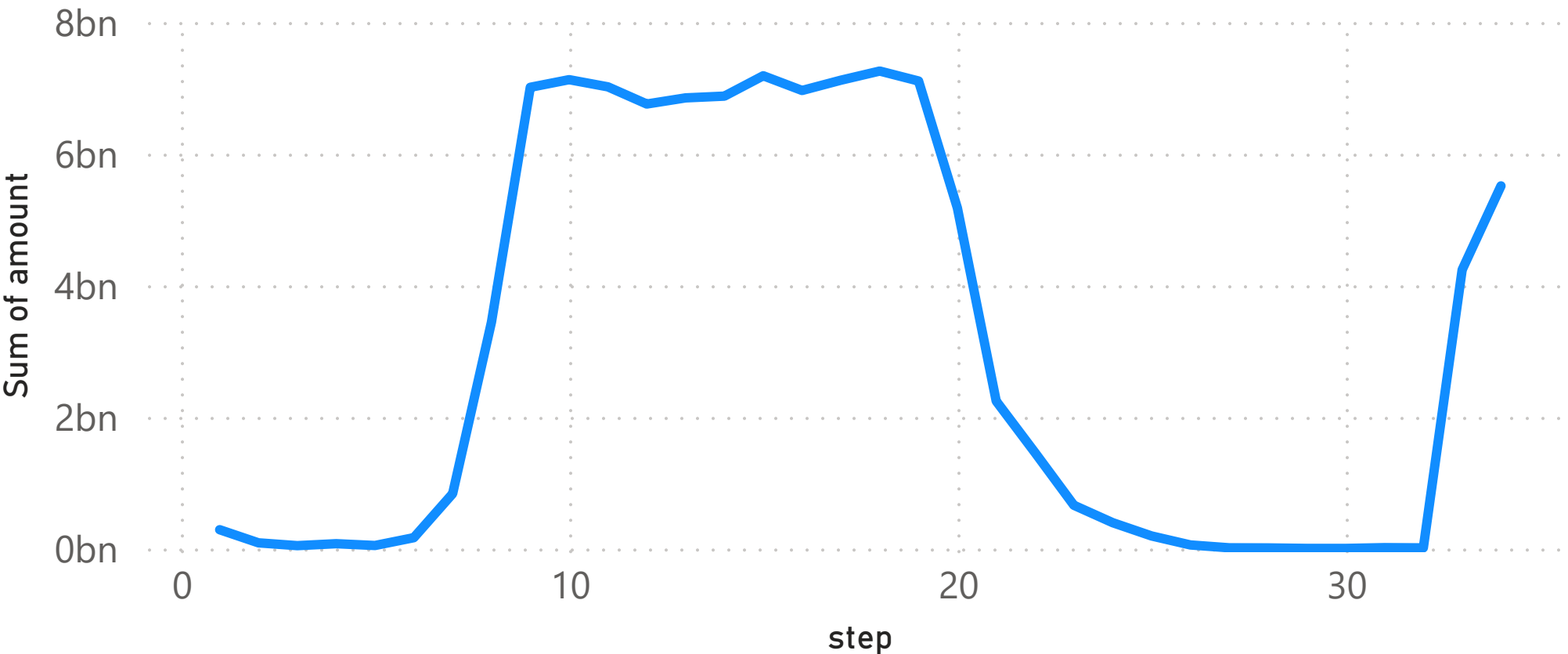
step

1

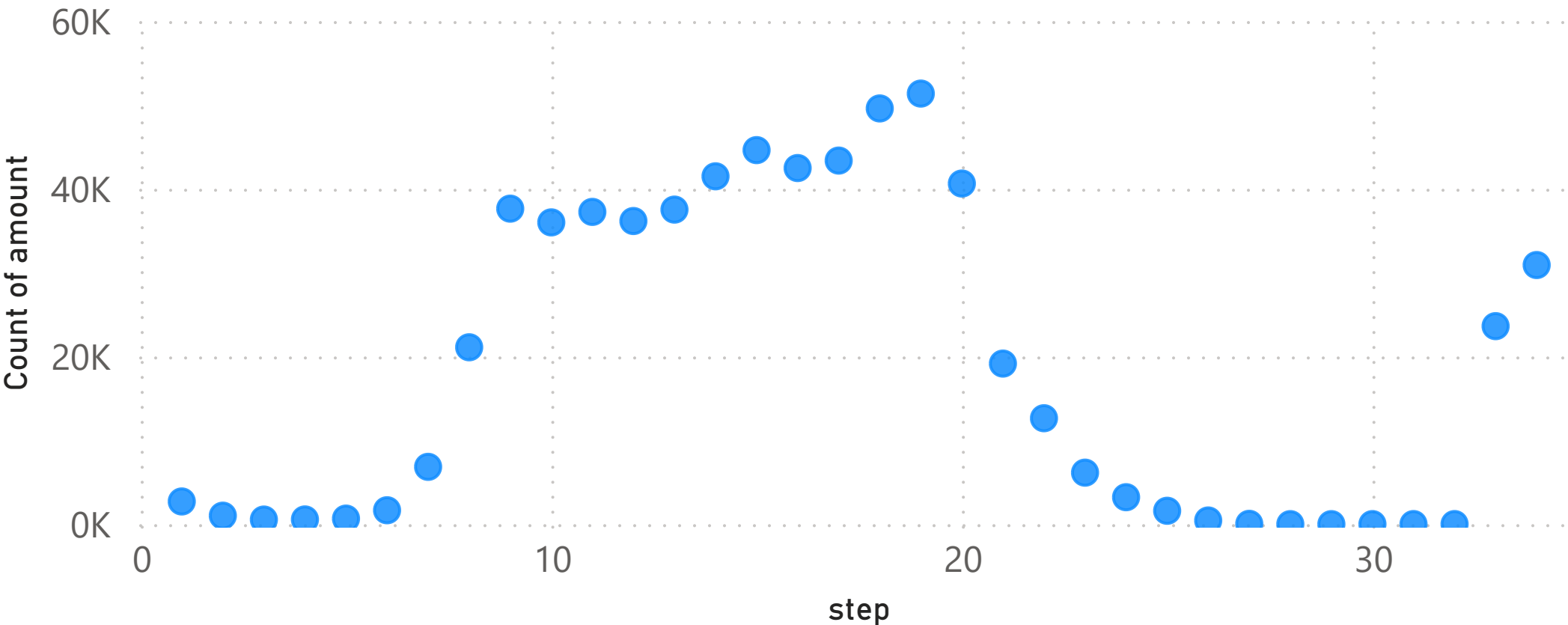
34



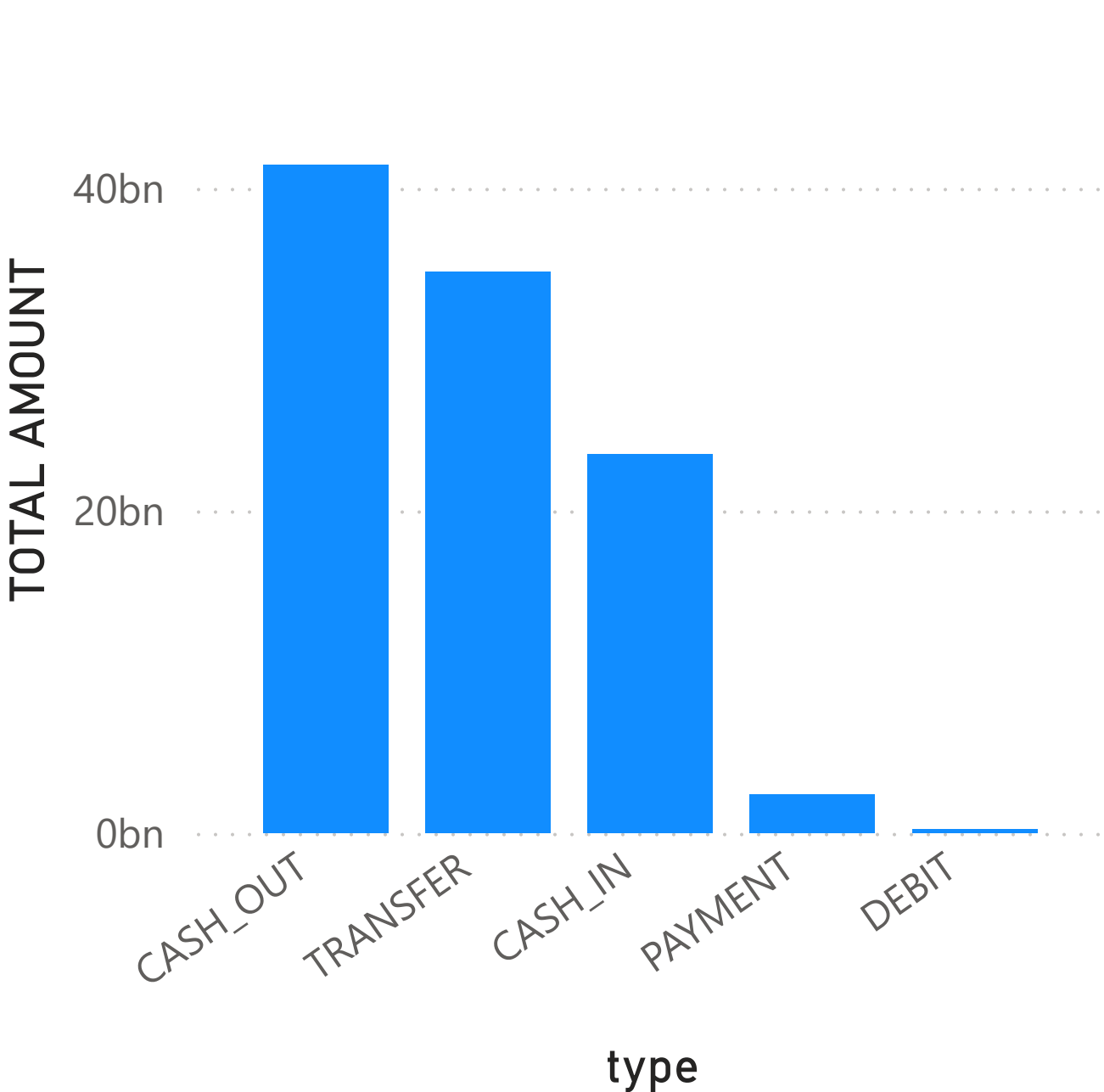
Sum of amount by step



Count of amount by step



TOTAL AMOUNT by type



At 7,255,071,578.26, 18 had the highest Sum of amount and was 743,856.60% higher than 30, which had the lowest Sum of amount at 975,200.92.

18 accounted for 7.10% of Sum of amount.

Across all 34 step, Sum of amount ranged from 975,200.92 to 7,255,071,578.26.

102,1...

TOTAL AMOUNT

0.88M

AVG FRAUDULENT TR

0.16M

AVG NORMAL TRANS...

10M

HIGHEST FRAUD AM...

6M

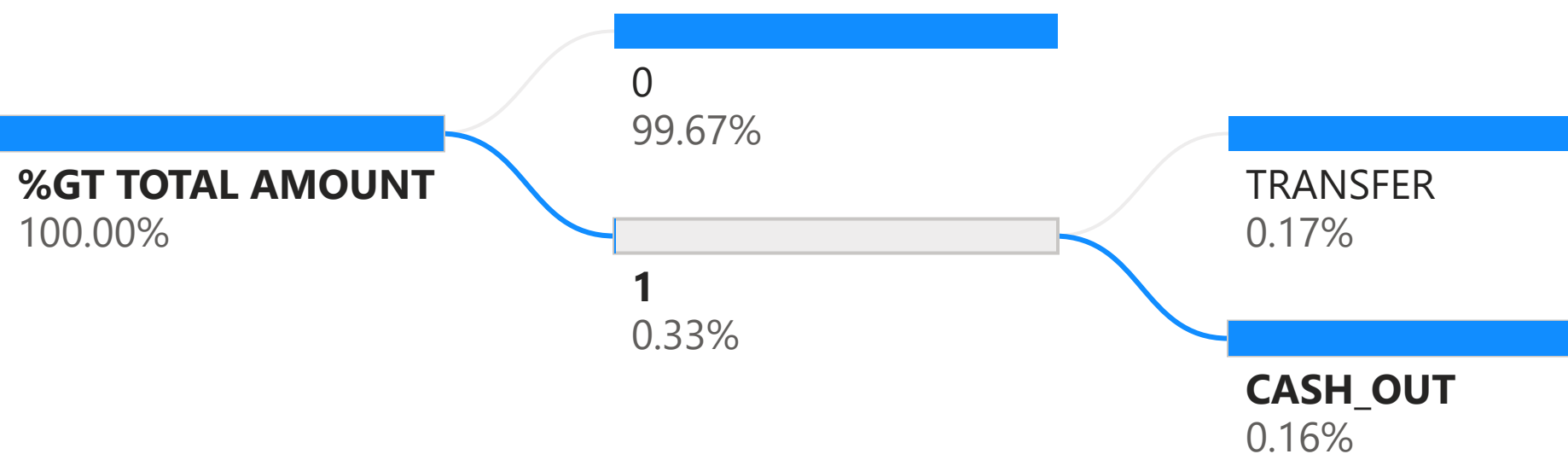
HIGHEST NORMAL A...

-4M

DIFFERENCE IN NOR...

isFraud
1

type
CASH_OUT



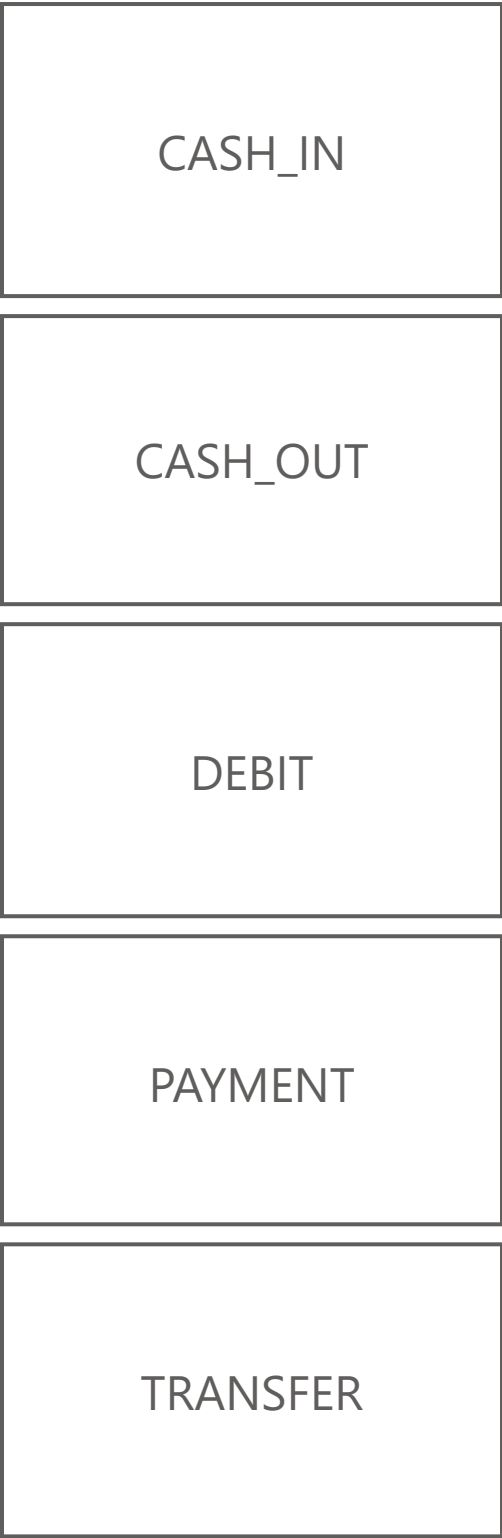


nameOrig	nameDest	type	Sum of amount	Sum of newbalanceOrig	Sum c
C1439740840	C875288652	TRANSFER	10000000.00	9,887,819.06	
C2050703310	C1622860679	CASH_OUT	10000000.00	0.00	
C29118015	C1379703840	CASH_OUT	10000000.00	0.00	
C351297720	C766681183	CASH_OUT	10000000.00	0.00	
C416779475	C380259496	TRANSFER	10000000.00	1,861,008.32	
C7162498	C945327594	TRANSFER	10000000.00	2,930,418.44	
C1071702423	C28783325	CASH_OUT	9887819.06	0.00	
C1548903046	C2065423383	TRANSFER	9887819.06	0.00	
C1612816859	C836514715	CASH_OUT	6648389.90	0.00	
C67311634	C674603923	TRANSFER	6648389.90	0.00	
C890128330	C1192472312	TRANSFER	6419835.27	0.00	
C135832352	C2009346140	TRANSFER	6188514.81	0.00	
C686187434	C1562904239	CASH_OUT	6188514.81	0.00	
C2022065686	C460989529	TRANSFER	6072832.27	0.00	
C293394374	C1856036778	TRANSFER	5677662.29	0.00	
C1588880909	C1570256460	CASH_OUT	5460002.91	0.00	
C666654362	C1726301214	TRANSFER	5460002.91	0.00	
C574755786	C1737918957	TRANSFER	5082871.40	0.00	
C551242513	C66893623	TRANSFER	5077695.81	0.00	
C1520365660	C1308026520	CASH_OUT	5021186.54	0.00	
C1848562108	C1803198527	TRANSFER	5021186.54	0.00	
C59768119	C1387210478	TRANSFER	4923413.80	0.00	

Total	102165491896.61	572,888,177,554.4
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type	TOTAL NO OF TRANSACTIONS	total_no_of_fraud_transaction	allMeasure	%offraudtransaction
CASH_IN	137157		630894	
CASH_OUT	224013	197	630894	0.03%
DEBIT	4769		630894	
PAYMENT	213374		630894	
TRANSFER	51581	186	630894	0.03%
Total	630894	383	630894	0.06%

type



isFraud, type, step

- ☐ 0
- ☐ 1

631K
allMeasure

INSIGHTS

- The visualizations are used to derive the following insights:
 - The total number of transactions recorded is 630894 with 383 fraud transactions. The percentage of fraudulent transactions is 0.06%.
 - The fraud transactions happened only in cash-out type and transfer-type payments.
 - The total number of transactions that happened in cash-out type payments is 224K with 197 fraud transactions. The percentage of fraudulent transactions for cash-out payments is 0.09%.
 - The total number of transactions that happened in transfer-type payments is 52K with 186 fraud transactions. The percentage of fraud transactions for transfer payments is 0.36%.
 - The highest number of frauds happened in transfer-type payments which means that proper safety is to be ensured for this payment type along with the cash-out type.
 - The maximum fraud amount was 10M and was done with 6 individuals.
 - 3 different customers were targeted twice with the maximum fraud amount of 828720 at once.
 - The total amount is approximately 102 billion.
 - The most used payment type is cash-out with 224K transactions and a total amount of