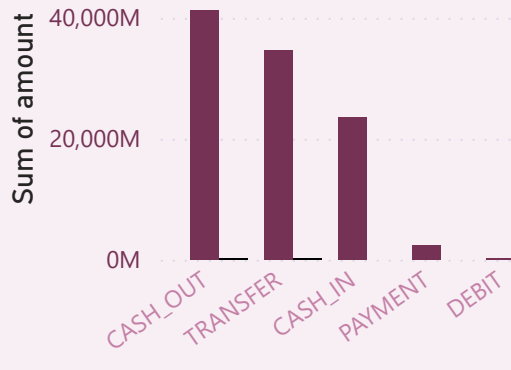
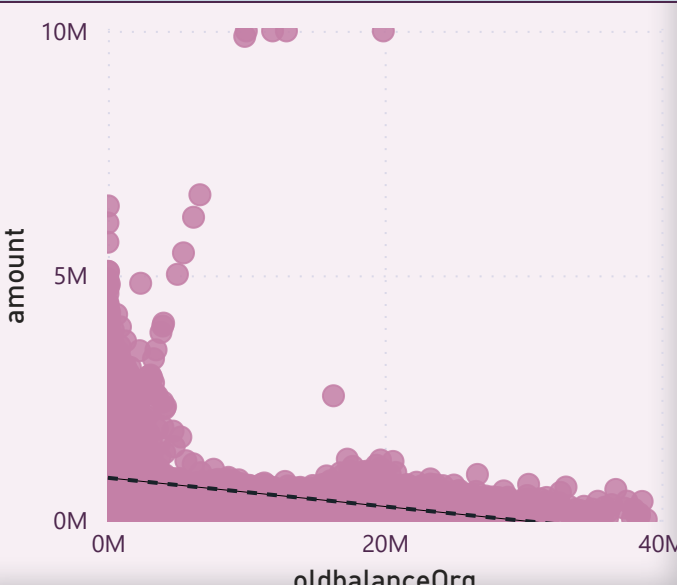
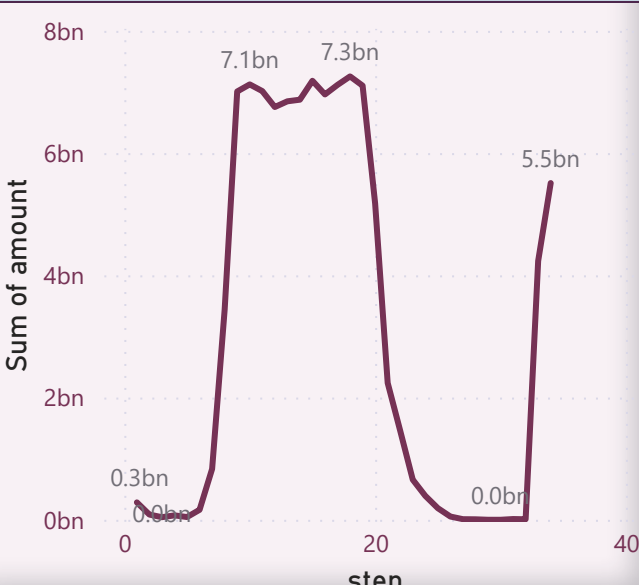
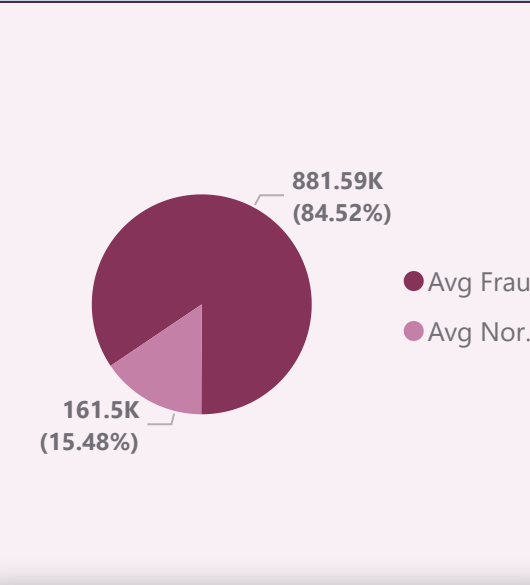


# Anomaly Detection in Credit Card Transactions

Total Normal Transaction	Total Fraud Transactions	Percent of Fraud Transaction	Sum of amount by type and isFraud	Merchants with Fraud Transactions																				
631K	383	0.06	<div>isFraud ● 0 ● 1</div> 	<div>nameDest    Count Of Fraud Transactions</div> <table><tr><td>C185805228</td><td>2</td></tr><tr><td>C200064275</td><td>2</td></tr><tr><td>C410033330</td><td>2</td></tr><tr><td>C1002031672</td><td>1</td></tr><tr><td>C1007251739</td><td>1</td></tr><tr><td>C1009459055</td><td>1</td></tr><tr><td>C1009564356</td><td>1</td></tr><tr><td>C1009901500</td><td>1</td></tr><tr><td>C101179743</td><td>1</td></tr><tr><td>Total</td><td>383</td></tr></table>	C185805228	2	C200064275	2	C410033330	2	C1002031672	1	C1007251739	1	C1009459055	1	C1009564356	1	C1009901500	1	C101179743	1	Total	383
C185805228	2																							
C200064275	2																							
C410033330	2																							
C1002031672	1																							
C1007251739	1																							
C1009459055	1																							
C1009564356	1																							
C1009901500	1																							
C101179743	1																							
Total	383																							
Max Normal Amount	Max Fraud Amount	Max Difference Amount																						
6.42M	10.00M	3.58M																						

Old balance Org and amount	Sum of amount by step	Avg Fraud and Avg Normal Amount	Top 10 Transacted Account																						
			<div>nameDestHighest Number Of Transaction</div> <table><tr><td>C985934102</td><td>95</td></tr><tr><td>C1286084959</td><td>89</td></tr><tr><td>C248609774</td><td>87</td></tr><tr><td>C2083562754</td><td>85</td></tr><tr><td>C665576141</td><td>85</td></tr><tr><td>C1590550415</td><td>83</td></tr><tr><td>C977993101</td><td>80</td></tr><tr><td>C1360767589</td><td>79</td></tr><tr><td>C451111351</td><td>76</td></tr><tr><td>C306206744</td><td>75</td></tr><tr><td>Total</td><td>834</td></tr></table>	C985934102	95	C1286084959	89	C248609774	87	C2083562754	85	C665576141	85	C1590550415	83	C977993101	80	C1360767589	79	C451111351	76	C306206744	75	Total	834
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C1360767589	79																								
C451111351	76																								
C306206744	75																								
Total	834																								

# Analysis

The transactions done by credit cards are analyzed and further discovered, there are numerous fraudulent in the transactions.

- . The total recorded transactions are 6,30,894 with 383 fraud transaction i.e 0.06% of the total transactions.
- . The fraud transaction comprises 197 cash\_out transactions and 186 transfer type, which means these two types require more attention towards transactional safety.
- . The max amount of fraud done was of 10M with 6 individuals each which is a very big number in itself.
- . There are 3 different customers who have been targeted twice for the fraud with the max amount of 828,720 at once.
- . The total Fraud amount is approximately 102 billions.
- . The most used is cash\_out type with 224013 transaction and approximately amount of 41 billions.
- . The least used is debit type with only 4769 transactions and approximately amount of 29 millions.
- . Steps between 15-20 consist of max amount of transactions with approximately 7.3 billions.