

CC Transactions Fraud Detection

Fraud_Rate

0.39%

Total_transactions

555719

Avg_age

46.64

Avg_amt

69.39

Fraud_transaction

High_chance

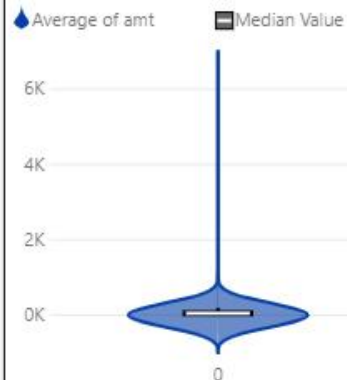
low_chance



Fraud_rate by trans_hour



Average of amt by number and is_fraud



Fraud_rate by category



Fraud_transaction

F

M

Category

entertainment

home

food_dining

kids_pets

gas_transport

misc_net

grocery_net

misc_pos

grocery_pos

personal_care

health_fitness

shopping_net

fraud_rate	category
1.21%	shopping_net
0.98%	misc_net
0.92%	grocery_pos
0.43%	shopping_pos
0.27%	gas_transport
0.23%	travel
0.39%	
0.39%	

fraud_rate	trans_hour
1.94%	22
1.87%	23
1.07%	3
1.04%	0
0.93%	2
0.92%	1
0.13%	20
0.39%	
0.39%	

chance	fraud_rate	category
High_chance	0.48%	entertainment
High_chance	0.43%	food_dining
High_chance	0.69%	gas_transport
High_chance	0.58%	grocery_net
Total	0.39%	

fraud_rate	trans_month
0.55%	10
0.49%	9
0.47%	8
0.44%	6
0.40%	11
0.37%	7
0.18%	12
0.39%	
0.39%	

fraud_rate	state
1.66%	AK
1.22%	CT
0.88%	ID
0.83%	HI
0.73%	MT
0.66%	DC
0.63%	IN
0.39%	
0.39%	

fraud_rate	trans_day
0.70%	4
0.69%	5
0.62%	8
0.60%	25
0.54%	11
0.50%	12
0.46%	7
0.39%	
0.39%	

fraud_rate	gender	Avg_age
0.38%	F	46.57
0.39%	M	46.72
0.39%		46.64

Average of Age	is_fraud
46.63	0
48.74	1
46.64	

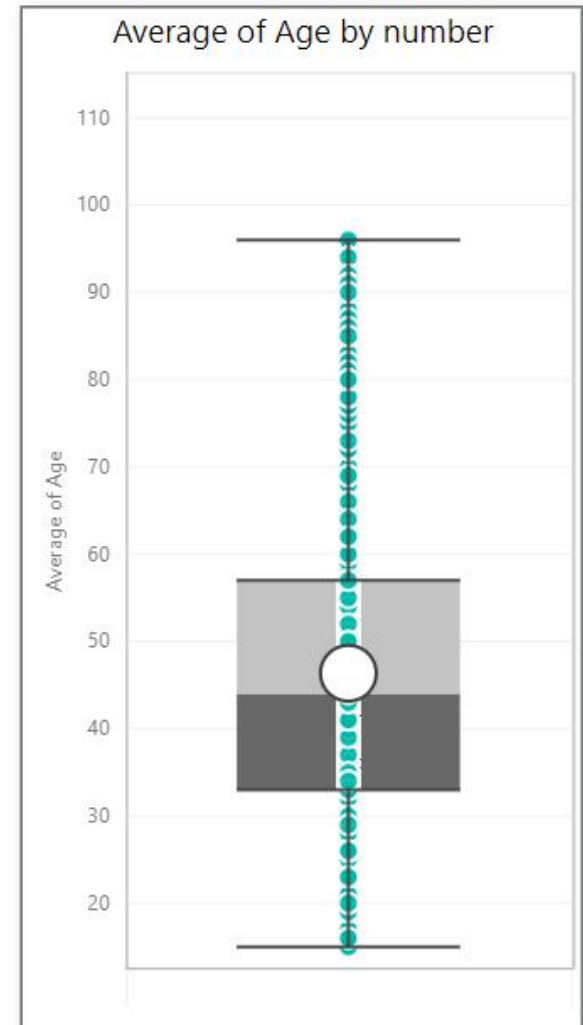
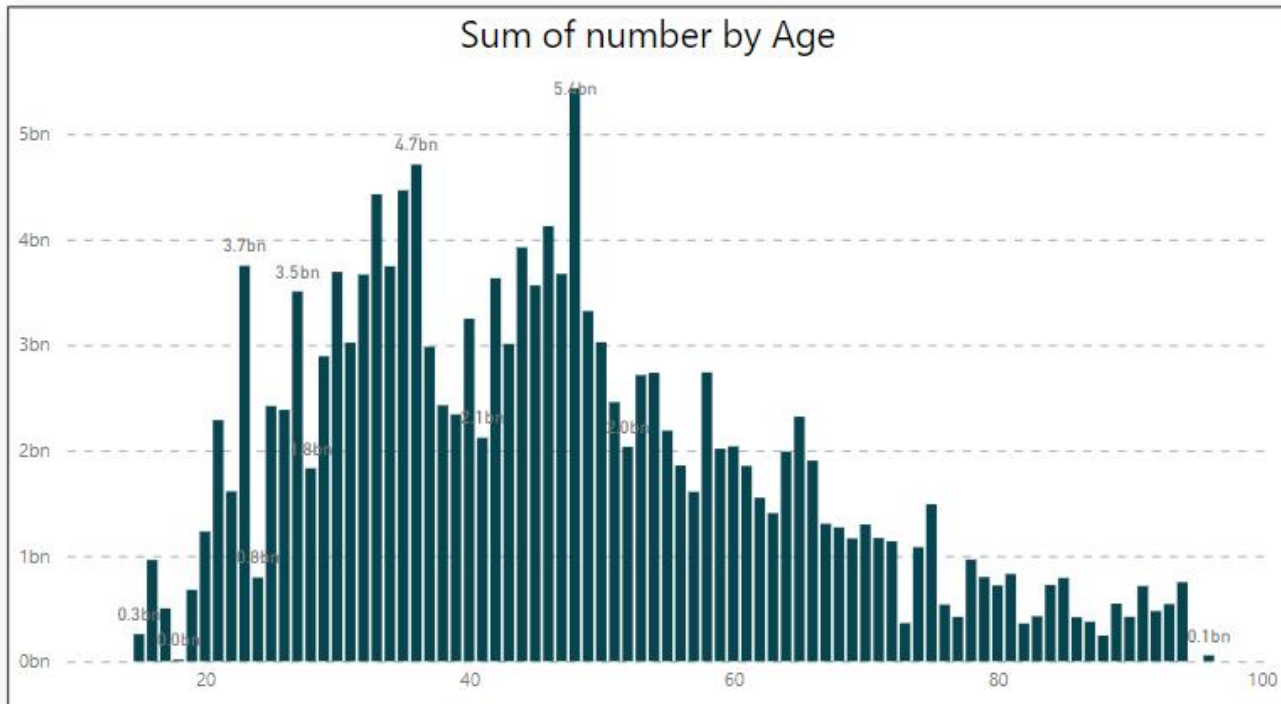
category	Count of number
entertainment	40104
food_dining	39268
gas_transport	56370
grocery_net	19426
grocery_pos	52553
health_fitness	36674
home	52345
Total	555719

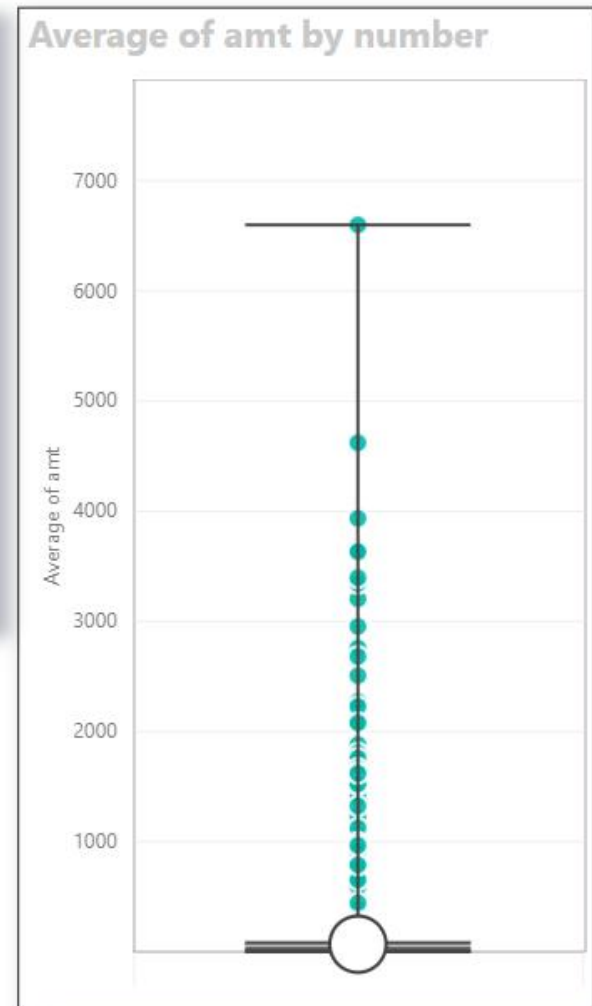
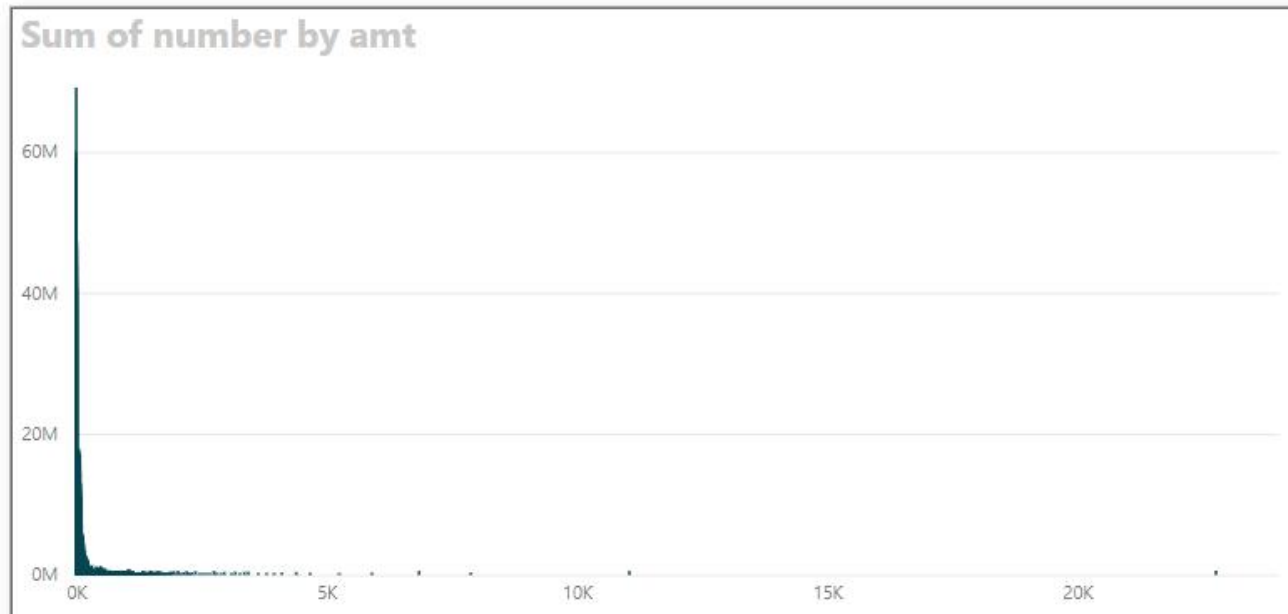
Count of number	merchant
803	fraud_Abbott-Ro
766	fraud_Abbott-Sta
762	fraud_Abernathy
838	fraud_Abshire PL
414	fraud_Adams, Ko Kuhlman
789	fraud_Adams-Ba
555719	

Count of number	gender
304886	F
250833	M
555719	

Count of number	job
426	Academic librarian
217	Accountant, chartere
1077	Accountant, chartere
1922	Accounting technicia
621	Acupuncturist
1511	Administrator
555719	

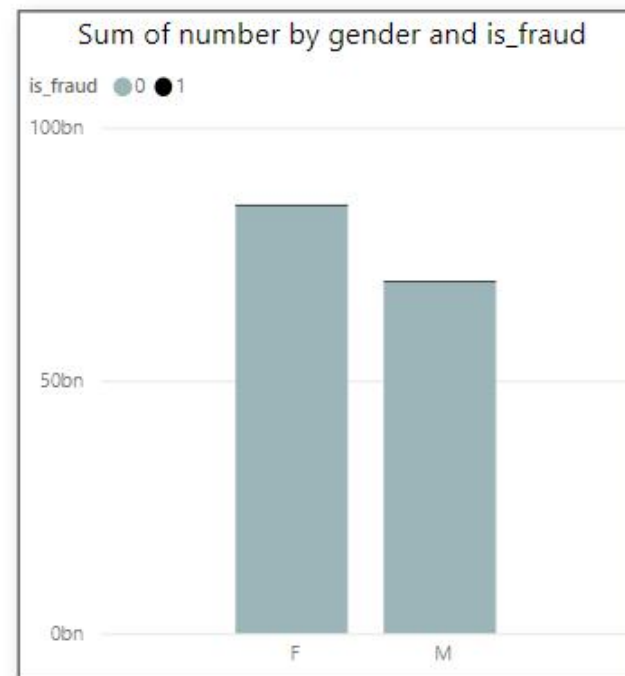
Count of number	city
208	Achille
828	Acworth
223	Adams
897	Afton
222	Akron
423	Albany
454	Albuquerque
555719	














is_fraud	High_chance	low_chance	Total
0	28.27%	71.73%	100.00%
1	85.50%	14.50%	100.00%
Total	28.49%	71.51%	100.00%







is_fraud	F	M	Total
0	54.87%	45.13%	100.00%
1	54.27%	45.73%	100.00%
Total	54.86%	45.14%	100.00%












chance	fraud_rate	
High_chance		1.16%
low_chance		0.08%
Total		0.39%





category	fraud_rate	
entertainment		0.15%
food_dining		0.14%
gas_transport		0.27%
grocery_net		0.21%
grocery_pos		0.92%
Total		0.39%






gender	fraud_rate	
F		0.38%
M		0.39%
Total		0.39%












trans_month	fraud_rate	
6		0.44%
7		0.37%
8		0.47%
9		0.49%
10		0.55%
11		0.40%
Total		0.39%

state	fraud_rate	
AK		1.66%
AL		0.36%
AR		0.25%
AZ		0.59%
CA		0.31%
Total		0.39%

trans_hour	fraud_rate	
0		1.04%
1		0.92%
2		0.93%
3		1.07%
4		0.08%
Total		0.39%

trans_day	fraud_rate	
1		0.28%
2		0.35%
3		0.46%
4		0.70%
Total		0.39%

Age	fraud_rate	
15		0.00%
16		0.00%
17		0.00%
18		100.00%
19		0.00%
Total		0.39%

category	Avg_age	Count of number	fraud_rate	chance	Average of amt
shopping_net	47.40	12333	 3.50%	High_chance	103.93
misc_net	47.87	8902	 2.66%	High_chance	89.76
grocery_pos	47.54	17664	 2.35%	High_chance	118.44
shopping_pos	47.69	14064	 1.32%	High_chance	82.79
gas_transport	48.49	18895	 0.69%	High_chance	63.45
travel	49.03	4379	 0.66%	High_chance	110.42
personal_care	47.65	9960	 0.61%	High_chance	48.44
misc_pos	45.75	10317	 0.60%	High_chance	62.37
grocery_net	39.63	6520	 0.58%	High_chance	53.47
entertainment	47.79	10669	 0.48%	High_chance	64.11
health_fitness	46.82	9118	 0.46%	High_chance	53.73
Total	46.64	555719	0.39%		69.39

Count of number	Age	percentage_total
963	15	0.17%
3471	16	0.62%
1858	17	0.33%
12	18	0.00%
2479	19	0.45%
4388	20	0.79%
555719		100.00%

Count of number	is_fraud	percentage_total
553574	0	99.61%
2145	1	0.39%
555719		100.00%

Count of number	percentage_total	trans_day
22440	4.04%	28
22198	3.99%	30
21815	3.93%	29
21619	3.89%	22
21436	3.86%	27
21151	3.81%	21
19426	3.50%	7
555719	100.00%	

Count of number	trans_hour	percentage_total
28798	23	5.18%
28563	16	5.14%
28388	22	5.11%
28205	21	5.08%
28204	14	5.08%
28178	13	5.07%
28064	17	5.05%
555719		100.00%

Count of number	trans_month	percentage_total
139538	12	25.11%
88759	8	15.97%
85848	7	15.45%
72635	11	13.07%
69533	9	12.51%
69348	10	12.48%
30058	6	5.41%
555719		100.00%