

Is fraud

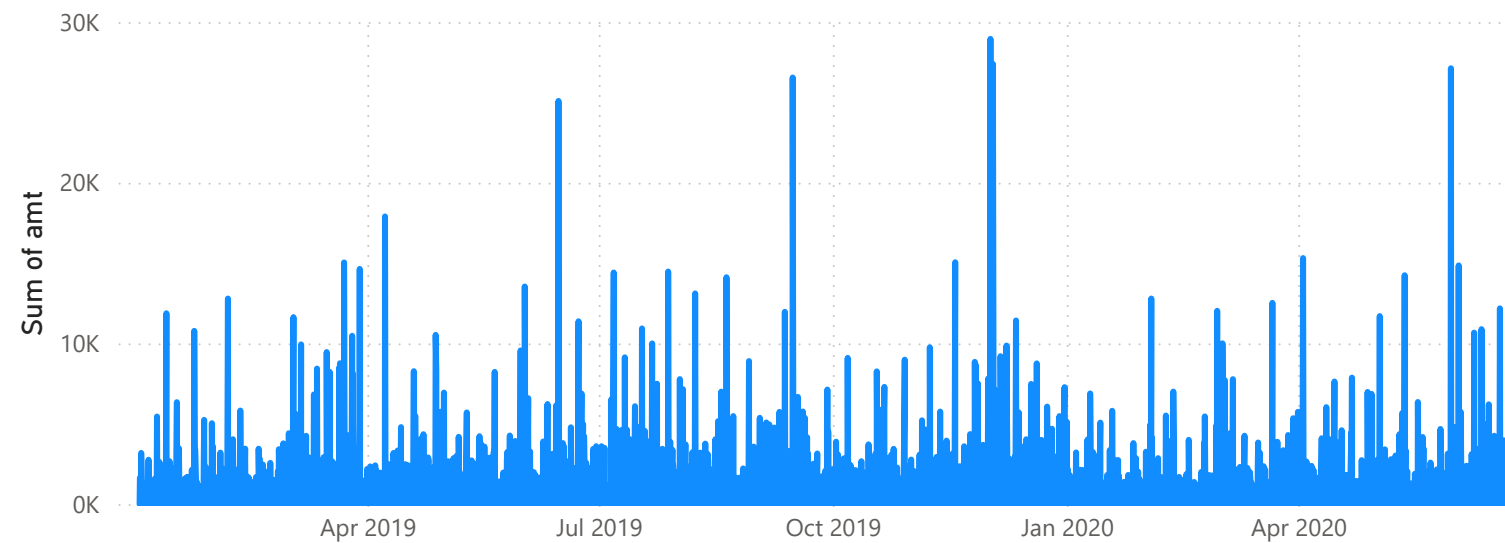
☐ 0

☐ 1

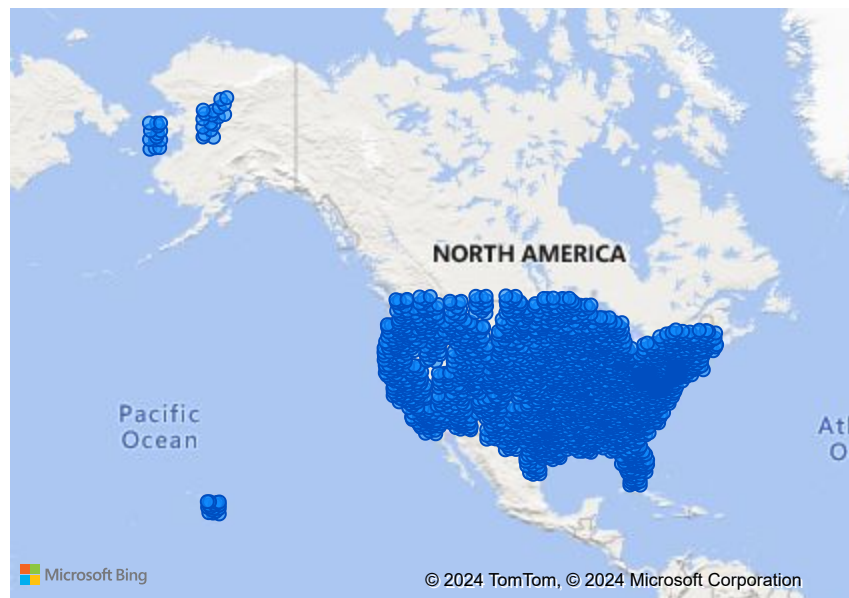
Transaction time

1/1/2019 21/6/2020

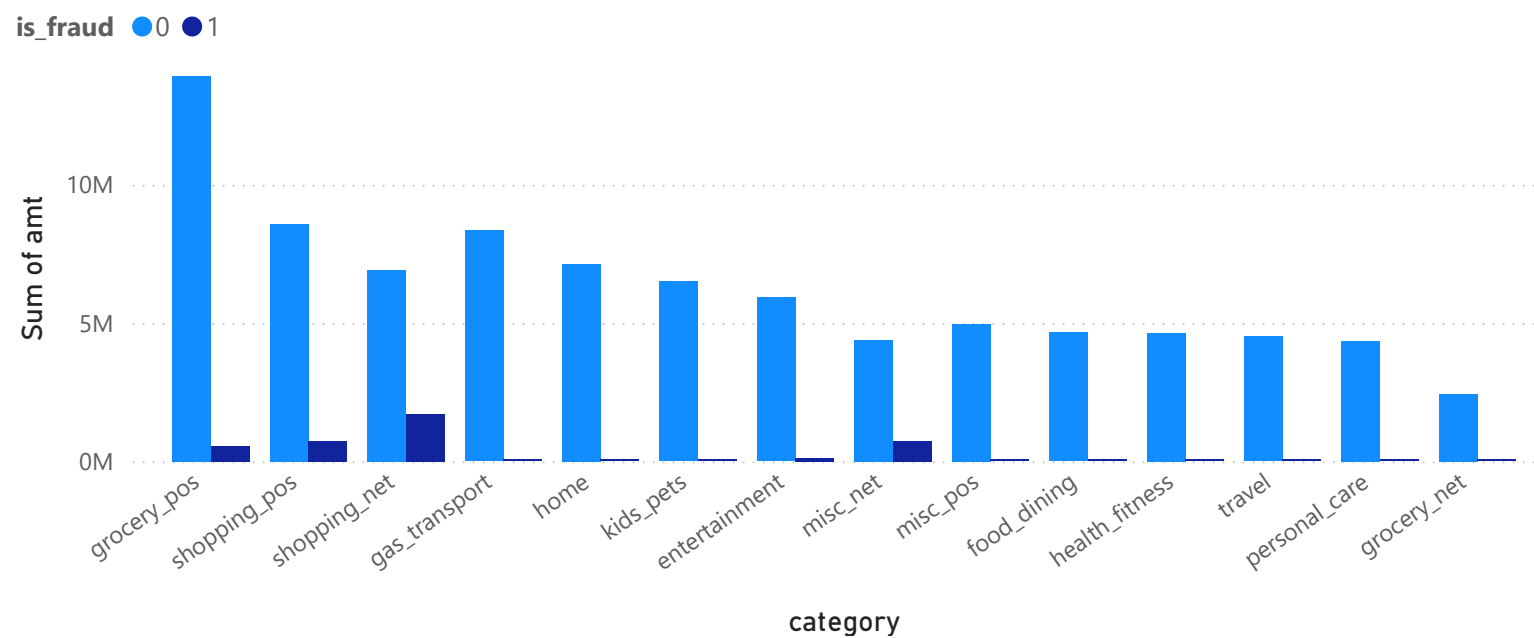
Transaction amount vs transaction time



Merchant location



Transaction amount vs category



Transaction time

1/1/2019



21/6/2020



# Difference between fraud case vs non-fraud case heatmap

Transaction heatmap (not fraud)

trans_date_tra ns_time24h	0	1	2	3	4	5	6	Total
0	10143	12886	12700	8207	6718	7289	7783	65726
1	10224	12625	12887	8095	6662	7339	7618	65450
2	10258	12874	12942	8048	6850	7452	7627	66051
3	10309	12619	12925	7995	6617	7407	7636	65508
4	10198	12530	12764	8181	6554	7402	7469	65098
5	10069	12693	12791	8033	6696	7525	7726	65533
6	10249	12932	13030	8344	6884	7604	7939	66982
7	10484	12845	12946	8389	6851	7487	8102	67104
8	8144	8401	5163	4307	4866	4986	6635	42502
9	8335	8571	5257	4358	4773	4997	6578	42869
10	8203	8353	5246	4279	4940	5037	6598	42656
11	8281	8409	5266	4350	4817	4980	6666	42769
12	8156	8294	5172	4122	4737	4924	6458	41863
13	8100	8343	5160	4246	4920	4904	6498	42171
14	8370	8311	5144	4251	4862	4956	6406	42300
15	8156	8325	5211	4141	4820	4934	6616	42203
16	8229	8114	5242	4225	4835	5056	6804	42505
17	8150	8176	5176	4319	4821	5085	6458	42185
18	8056	8298	5305	4183	4826	5067	6536	42271
19	8185	8197	5292	4224	4792	4903	6489	42082
20	12606	12813	7983	6607	7474	7616	10158	65257
21	12510	12982	8180	6564	7476	7595	10007	65314
22	12401	12776	8044	6568	7394	7639	10063	64885
23	12693	12934	8094	6497	7427	7693	10053	65391
Total	230509	253301	197920	142533	141612	149877	180923	1296675

Transaction heatmap (fraud)

trans_date_tra ns_time24h	0	1	2	3	4	5	6	Total
0	8	12	17	10	7	15	7	76
1	11	15	10	10	15	8	9	78
2	20	11	11	10	8	9	12	81
3	12	15	10	14	9	6	15	81
4	7	9	6	11	7	7	15	62
5	7	12	9	9	9	12	16	74
6	330	293	315	237	215	270	271	1931
7	313	310	300	239	216	237	289	1904
8	98	98	74	77	99	88	101	635
9	106	96	75	77	100	84	120	658
10	106	90	82	67	81	94	105	625
11	108	116	76	74	61	82	92	609
12	7	5	8	4	9	8	5	46
13	8	8	8	7	9	7	13	60
14	8	7	6	5	2	6	6	40
15	10	14	4	5	11	5	7	56
16	8	10	8	3	7	7	6	49
17	9	4	9	6	4	11	4	47
18	5	9	8	4	5	6	3	40
19	8	3	3	9	8	4	7	42
20	14	7	8	8	9	7	14	67
21	17	13	10	8	11	11	10	80
22	12	14	6	9	19	12	14	86
23	15	10	10	10	9	13	12	79
Total	1247	1181	1073	913	930	1009	1153	7506

Is fraud

☐ 0

☐ 1

Transaction time

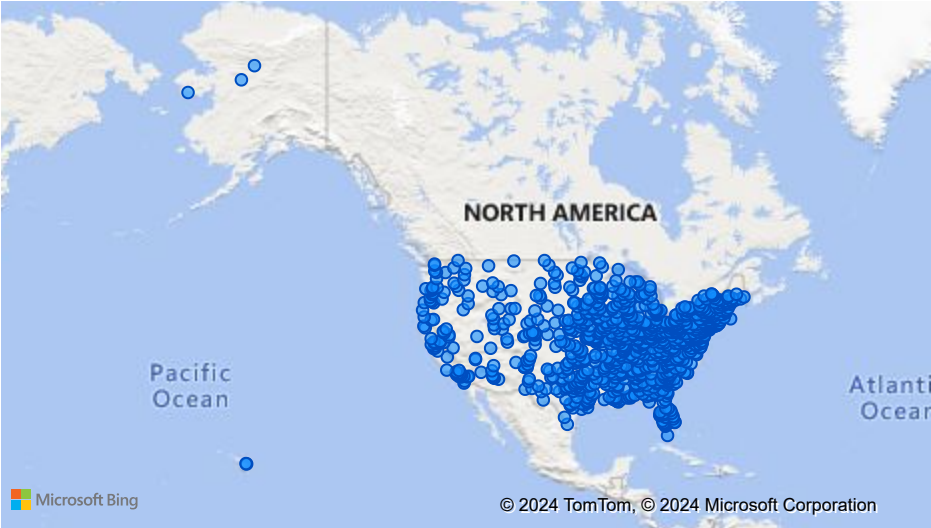
1/1/2019 21/6/2020



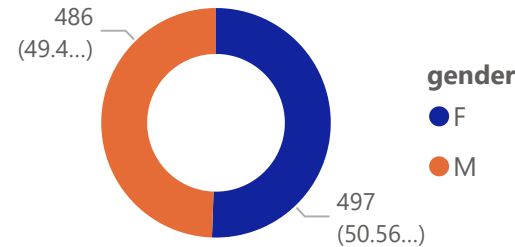
Count of job by job



latitude and longitude

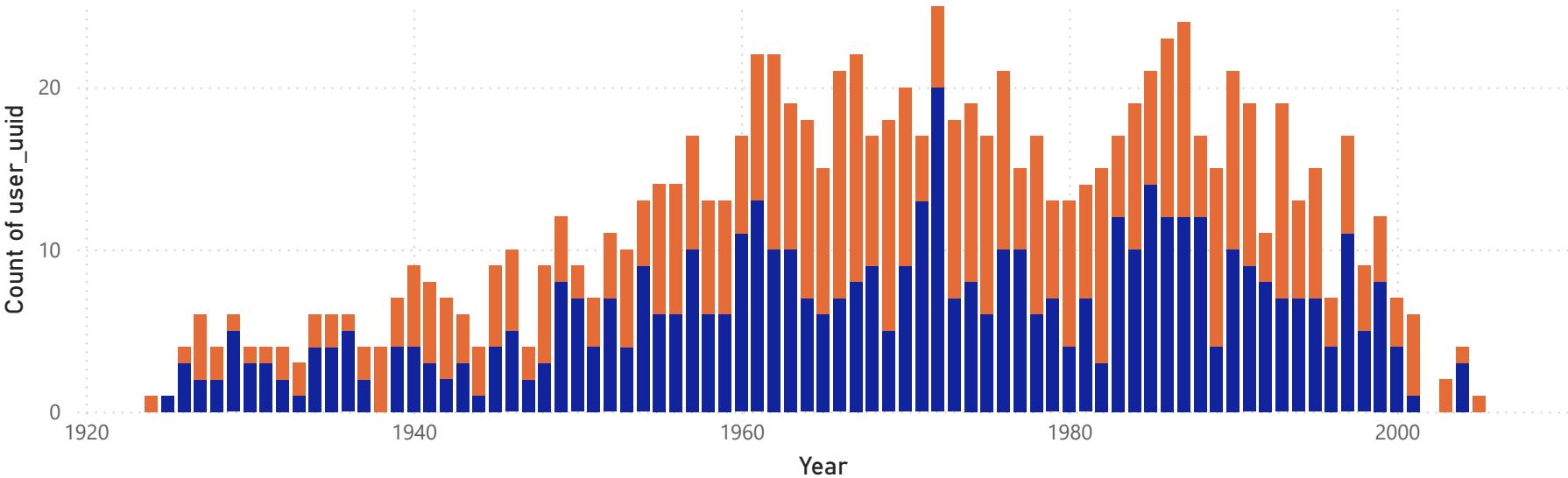


Count of user\_uuid by gender



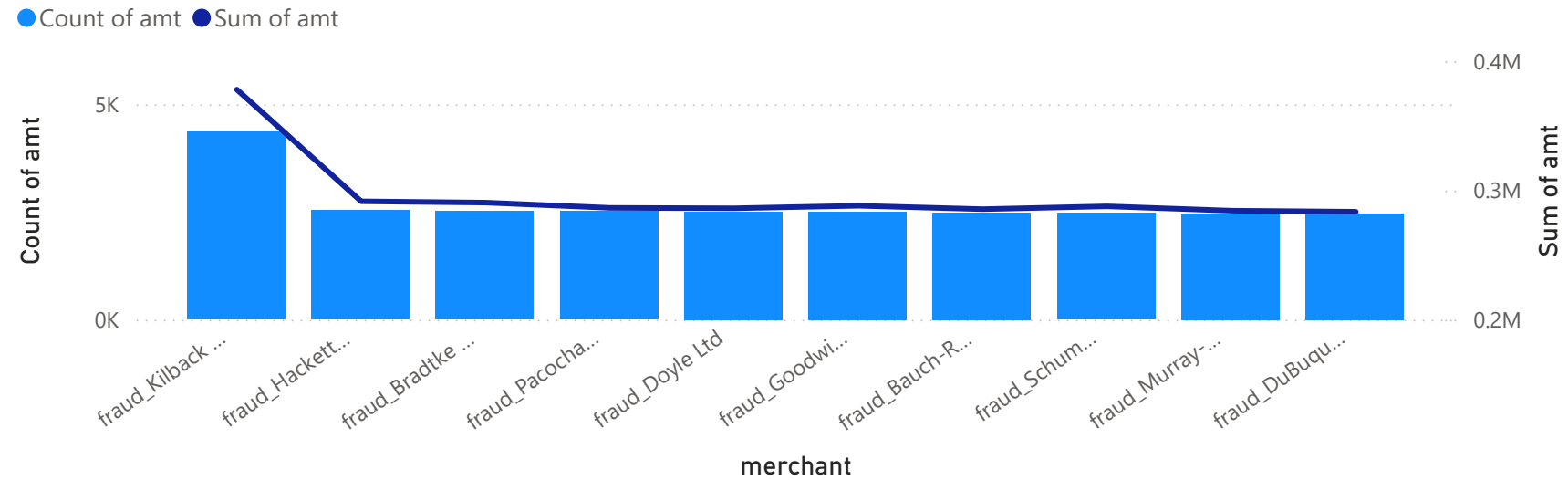
Count of user\_uuid by Year and gender

gender ● F ● M



# Top merchant fraud vs non-fraud

Top merchant (not fraud)



Top merchant (fraud)

