

## Project on USA Crime Data Exploration and Analysis

Q1) Check the dataset for any missing values, and if any are present, delete the row corresponding to that particular cell. Verify once more that 2022 is the only year for which data has been collected.

Ans) The below attached is the screenshot of the dataset for the year 2022 which has no missing values

1	IUCR	Primary	Descrip	Locatio	Arrest	Domes	Beat	District	Ward	Comm	FBI Cod	X Coord	Y Coord	Year	Updated On	Latitude	Longitu	Locatio	V
2	810 THEFT	OVER \$500 RESIDENCE	FALSE	FALSE	624	6	6	44	6	1181612	1852489	2022	11-12-2022 15:46	41.75046	-87.6101	(41.75046233,			
3	580 STALKING	SIMPLE STREET	FALSE	FALSE	1833	18	42	8	08A	1177293	1905597	2022	11-12-2022 15:46	41.89629	-87.6243	(41.896293265,			
4	1563 SEX OFFER CRIMINAL	RESIDENCE	FALSE	TRUE	2533	25	37	25	17	1144610	1910885	2022	11-12-2022 15:46	41.91148	-87.7442	(41.911482929,			
5	1153 DECEPTIV FINANCIAL APARTME	N	FALSE	FALSE	1925	19	46	6	11	1170694	1926410	2022	11-12-2022 15:46	41.95355	-87.6479	(41.953552585,			
6	1750 OFFENSE I CHILD ABL RESIDENC	E	FALSE	TRUE	1114	11	28	26	08B	1148076	1900155	2022	11-12-2022 15:46	41.88197	-87.7317	(41.881972734,			
7	820 THEFT	\$500 AND APARTME	FALSE	FALSE	1914	19	46	3	6	1168782	1931175	2022	11-12-2022 15:46	41.96667	-87.6548	(41.966669657,			
8	1153 DECEPTIV FINANCIAL APARTME	N	FALSE	FALSE	2413	24	50	2	11	1159359	1942426	2022	11-12-2022 15:46	41.99774	-87.6891	(41.997742435,			
9	1720 OFFENSE I CONTRIBL RESIDENC	E	FALSE	TRUE	2211	22	19	74	20	1154382	1829582	2022	11/20/2022 03:46:1	41.68819	-87.7105	(41.688186208,			
10	1310 CRIMINAL TO PROPE APARTME	N	FALSE	FALSE	733	7	6	68	14	1171190	1858171	2022	10-11-2022 16:45	41.76629	-87.6481	(41.766288528,			
11	1310 CRIMINAL TO PROPE RESIDENC	E	FALSE	FALSE	622	6	21	71	14	1172912	1851164	2022	11-12-2022 15:46	41.74702	-87.642	(41.747022627,			
12	1750 OFFENSE I CHILD ABL RESIDENC	E	FALSE	TRUE	1135	11	28	29	08B	1157397	1894579	2022	12-09-2022 15:46	41.86649	-87.6977	(41.866487134,			
13	1153 DECEPTIV FINANCIAL RESIDENC	E	FALSE	FALSE	933	9	20	61	11	1170040	1870991	2022	12-08-2022 15:46	41.80149	-87.6519	(41.80149318,			
14	810 THEFT	OVER \$50 SCHOOL -	FALSE	FALSE	923	9	14	63	6	1160882	1871145	2022	12-10-2022 15:46	41.80211	-87.6855	(41.80211009,			
15	1310 CRIMINAL TO PROPE OTHER SF	N	FALSE	FALSE	2023	20	48	77	14	1168271	1936212	2022	11-12-2022 15:46	41.9805	-87.6565	(41.980502422,			
16	1310 CRIMINAL TO PROPE RESIDENC	E	FALSE	FALSE	713	7	16	67	14	1169300	1866741	2022	11-12-2022 15:46	41.78985	-87.6548	(41.789846764,			
17	620 BURGLARY UNLAWFUL COMMERC	E	FALSE	FALSE	2211	22	19	74	5	1157851	1830853	2022	11-12-2022 15:46	41.6916	-87.6977	(41.691604537,			
18	480 BATTERY DOMESTIC RESIDENC	E	TRUE	TRUE	414	4	8	46	08B	1192921	1852149	2022	10-11-2022 16:45	41.74926	-87.5686	(41.749260995,			
19	1310 CRIMINAL TO PROPE APARTME	N	FALSE	FALSE	1124	11	28	27	14	1159393	1898528	2022	11-12-2022 15:46	41.87735	-87.7029	(41.877353099,			
20	1320 CRIMINAL TO VEHICLE STREET	E	FALSE	FALSE	323	3	6	69	14	1182162	1856593	2022	11-12-2022 15:46	41.76171	-87.6079	(41.761711431,			
21	1925 OTHER CRIMINAL RESIDENC	E	FALSE	TRUE	1012	4	7	46	10	1156501	1950968	2022	11-12-2022 15:46	41.74569	-87.5590	(41.745690051,			

H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
212123 STREET	FALSE	FALSE	922	9	15	58	3	1160910	1873447	2022	12-05-2022 15:51	41.80843	-87.6853	(41.808426488,	-87.685342121)		
212124 STREET	FALSE	FALSE	422	4	7	46	04B	1197208	1852988	2022	12-05-2022 15:51	41.75146	-87.5529	(41.751457646,	-87.552892516)		
212125 STREET	FALSE	FALSE	1033	10	12	30	3	1155934	1886570	2022	12-05-2022 15:51	41.84454	-87.7032	(41.844539149,	-87.703240067)		
212126 APARTME	FALSE	FALSE	1014	10	24	29	26	1152039	1889439	2022	12-05-2022 15:51	41.85249	-87.7175	(41.852489562,	-87.717458697)		
212127 SIDEWALK	FALSE	FALSE	1013	10	22	30	3	1150304	1886428	2022	12-05-2022 15:51	41.84426	-87.7239	(41.844260971,	-87.723905144)		
212128 HOTEL / N	FALSE	FALSE	833	8	18	65	7	1145666	1855429	2022	12-05-2022 15:51	41.75928	-87.7417	(41.759283913,	-87.741709017)		
212129 STREET	FALSE	FALSE	1032	10	12	30	3	1155020	1886548	2022	12-05-2022 15:51	41.84445	-87.7066	(41.84449713,	-87.706594911)		
212130 RESIDENC	FALSE	FALSE	2031	20	40	4	26	1156348	1932071	2022	12-05-2022 15:51	41.96939	-87.7005	(41.96938944,	-87.700488807)		
212131 STREET	FALSE	FALSE	232	2	20	68	7	1175964	1866315	2022	12-05-2022 15:51	41.78853	-87.6303	(41.788530845,	-87.63034163)		
212132 STREET	FALSE	FALSE	1124	11	27	27	7	1157742	1899470	2022	12-05-2022 15:51	41.8799	-87.6963	(41.879901506,	-87.696253666)		
212133 STREET	FALSE	FALSE	423	4	7	48	7	1194091	1844824	2022	12-05-2022 15:51	41.72913	-87.5646	(41.729131953,	-87.564581836)		
212134 STREET	FALSE	FALSE	834	8	18	70	15	1150522	1852145	2022	12-05-2022 15:51	41.75018	-87.724	(41.750179035,	-87.723996934)		
212135 STREET	FALSE	FALSE	914	9	11	34	6	1173450	1887280	2022	12-05-2022 15:51	41.84612	-87.6389	(41.846116817,	-87.63893298)		
212136 APARTME	FALSE	FALSE	235	2	5	41	6	1186497	1868390	2022	12-05-2022 15:51	41.79398	-87.5917	(41.793981982,	-87.591655814)		
212137 SMALL RE	FALSE	FALSE	414	4	8	46	5	1191073	1852990	2022	12-05-2022 15:51	41.75161	-87.5754	(41.751613643,	-87.575373855)		
212138 RESIDENC	FALSE	TRUE	924	9	15	61	26	1166082	1875233	2022	12-05-2022 15:51	41.81322	-87.6663	(41.813218898,	-87.666321536)		
212139 STREET	FALSE	FALSE	1013	10	22	30	3	1152093	1887519	2022	12-05-2022 15:51	41.84722	-87.7173	(41.847219786,	-87.717311051)		
212140 STREET	FALSE	FALSE	1224	12	27	28	6	1170062	1901427	2022	12-05-2022 15:51	41.88501	-87.651	(41.885011786,	-87.650959272)		
212141 STREET	FALSE	FALSE	1033	10	12	30	3	1155726	1888341	2022	12-05-2022 15:51	41.8494	-87.704	(41.849403163,	-87.703955767)		
212142 RESIDENC	FALSE	FALSE	811	8	14	56	5	1132936	1869069	2022	12-05-2022 15:51	41.79695	-87.788	(41.796945441,	-87.788048089)		

Q2) Sort the data in the provided dataset based on the number of primary types of crime instances, then create a Pareto chart to visualize the results. Next, sort the data according to the crime's location and description, and then create a histogram to represent the pertinent facts.

Ans) The below attached is the screenshot of sorted data in the given dataset based on the primary types of crime

The screenshot shows a Microsoft Excel spreadsheet titled "Uscrimes - Excel". The ribbon menu is visible at the top, and the "Home" tab is selected. The main content area displays a large dataset of crime incidents. The columns include: IUCR, Primary, Descrip, Locatio, Arrest, Domest, Beat, District, Ward, Comm, FBI Cod, X Coor, Y Coor, Year, Updated On, Latitud, Longitu, and Locatio. The data is sorted by the "Primary" column, with "810 THEFT" appearing as the first entry. The "Primary" column contains values such as "810 THEFT", "580 STALKING SIMPLE STREET", "1563 SEX OFFER CRIMINAL RESIDENC", "1153 DECEPTIV FINANCIAPARTME", "1750 OFFENSE I CHILD ABL RESIDENC", "820 THEFT \$500 AND APARTME", "1153 DECEPTIV FINANCIAPARTME", "1720 OFFENSE I CONTRIBL RESIDENC", "1310 CRIMINAL TO PROPE APARTME", "1310 CRIMINAL TO PROPE RESIDENC", "1750 OFFENSE I CHILD ABL RESIDENC", "1153 DECEPTIV FINANCIARESIDENC", "810 THEFT OVER \$500SCHOOL-", "1310 CRIMINAL TO PROPE OTHER (S)", "1310 CRIMINALTO PROPE RESIDENC", "620 BURGLARY UNLAWFUL COMMERC", "486 BATTERY DOMESTIC RESIDENC", "1310 CRIMINAL TO PROPE APARTME", "1320 CRIMINAL TO VEHICLESTREET", and "1915 OTHER OFFENDERRESIDENC". The "Year" column shows various years from 2022, and the "Updated On" column shows dates like "11-12-2022 15:46". The "Latitude" and "Longitude" columns provide geographical coordinates for each incident.

The screenshot shows a Microsoft Excel spreadsheet titled "Uscrimes - Excel". The ribbon menu is visible at the top, and the "Home" tab is selected. The main content area displays a large dataset of crime incidents. The columns include: H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, and Y. The data is sorted by the "J" column, with "212123 STREET" appearing as the first entry. The "J" column contains values such as "212123 STREET", "212124 STREET", "212125 STREET", "212126 APARTME", "212127 SIDEWALK", "212128 HOTEL / MOTEL", "212129 STREET", "212130 RESIDENC", "212131 STREET", "212132 STREET", "212133 STREET", "212134 STREET", "212135 STREET", "212136 APARTME", "212137 SMALL RE", "212138 RESIDENC", "212139 STREET", "212140 STREET", "212141 STREET", and "212142 RESIDENC". The "Y" column shows various years from 2022, and the "X" column provides additional categorical information.

Uscriimes - Excel

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J18 TRUE

ID	Case N	Date	Block	IUCR	Primary Type	Descrip	Locatio	Arrest	Domes	Beat	District	Ward	Commu	FBI Cod	X Coor	Y Coor	Year	
1	12789250 JF351068	##### 079XX S	1	810 ARSON	OVER \$50KRESIDENC	FALSE	624	6	6	44	6	808A	1181612	1852489	2022	#		
2	12783300 JF343908	##### 007XX N N	580	ARSON	SIMPLE STREET	FALSE	1833	18	42	808A	1177293	1905597	2022	#				
3	12814497 JF380963	##### 047XX W	1563	ARSON	CRIMINAL RESIDENC	FALSE	2533	25	37	25	17	1144610	1910885	2022	#			
4	12822046 JF389504	##### 039XX P	1153	ARSON	FINANCI(A)APARTME	FALSE	1925	19	46	6	11	1170694	1926410	2022	#			
5	12836994 JF403613	##### 042XX W	1750	ARSON	CHILD ABU RESIDENC	FALSE	TRUE	1114	11	28	26	08B	1148076	1900155	2022	#		
6	12840187 JF411409	##### 046XX N S	820	ARSON	\$500 AND APARTME	FALSE	1914	19	46	3	6	1168782	1931175	2022	#			
7	12849613 JF422946	##### 023XX W C	1153	ARSON	FINANCI(A)APARTME	FALSE	2413	24	50	2	11	1159359	1942426	2022	#			
8	1285863 JF475023	##### 112XX S C	1720	ARSON	CONTRIBL RESIDENC	FALSE	TRUE	2211	22	19	74	20	1154382	1829582	2022	1		
9	12584964 JF103834	##### 070XX S	1310	ARSON	TO PROPE APARTME	FALSE	733	7	6	68	14	1171190	1858171	2022	#			
10	12586516 JF105792	##### 007XX W E	1310	ARSON	TO PROPE RESIDENC	FALSE	622	6	21	71	14	1172912	1851164	2022	#			
11	12914904 JF501105	##### 028XX W F	1750	ARSON	CHILD ABU RESIDENC	FALSE	TRUE	1135	11	28	29	08B	1157397	1894579	2022	#		
12	12914165 JF500243	##### 010XX W E	1153	ARSON	FINANCI(A)RESIDENC	FALSE	933	9	20	61	11	1170040	1870991	2022	#			
13	12916340 JF502553	##### 050XX S A	810	ARSON	OVER \$50 SCHOOL -	FALSE	923	9	14	63	6	1160882	1871145	2022	#			
14	12677514 JF216088	##### 054XX N K	1310	ARSON	TO PROPE OTHER (S	FALSE	FALSE	2023	20	48	77	14	1168271	1936212	2022	#		
15	12691174 JF232629	##### 057XX S R	1310	ARSON	TO PROPE RESIDENC	FALSE	713	7	16	67	14	1169300	1867641	2022	#			
16	12704864 JF247038	##### 030XX W J	620	ARSON	UNLAWFU COMMERC	FALSE	2211	22	19	74	5	1157851	1830853	2022	#			
17	12581817 JF100052	##### 080XX S C	486	ARSON	DOMESTIC RESIDENC	TRUE	TRUE	414	4	8	46	08B	1192921	1852149	2022	#		
18	12582215 JF100535	##### 030XX W J	1310	ARSON	TO PROPE APARTME	FALSE	1124	11	28	27	14	1155939	1898528	2022	#			
19	12582456 JF100747	##### 073XX S L	1320	ARSON	TO VEHICL STREET	FALSE	323	3	6	69	14	1182162	1856593	2022	#			
20	12597722 JF100747	##### 027XX S M	292	ARSON	UNADACM RESIDENC	FALSE	TBD/E	422	4	7	66	26	1105601	1850962	2022	#		

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Uscriimes - Excel

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Font Alignment Number Conditional Formatting Styles Cells Editing

J18 TRUE

ID	Case N	Date	Block	IUCR	Primary Type	Descrip	Locatio	Arrest	Domes	Beat	District	Ward	Commu	FBI Cod	X Coor	Y Coor	Year	
394	12657859 JF192397	##### 035XX W C	2826	ASSAULT	HARASSM APARTME	FALSE	1133	11	24	29	26	1152917	1894829	2022	#			
395	12670724 JF207880	##### 012XX N K	1153	ASSAULT	FINANCI(A)APARTME	FALSE	2534	25	37	23	11	1148149	1908111	2022	#			
396	12715589 JF262307	##### 042XX W J	1153	ASSAULT	FINANCI(A)APARTME	FALSE	1132	11	28	26	11	1148189	1898349	2022	#			
397	12582100 JF100375	##### 006XX S IN	265	ASSAULT	AGGRAVA STREET	FALSE	1133	11	24	27	2	1151362	1897011	2022	#			
398	12582549 JF100833	##### 057XX S M	1261	ASSAULT	UNAUTHC APARTME	FALSE	712	7	16	68	11	1170623	1865798	2022	#			
399	12582096 JF100426	##### 009XX N V	560	ASSAULT	SIMPLE APARTME	TRUE	TRUE	1511	15	29	25	08A	1138186	1905680	2022	#		
400	12583226 JF101629	##### 047XX S DI	497	ASSAULT	AGGRAVA APARTME	FALSE	TRUE	223	2	3	38	04B	1179661	1873623	2022	#		
401	12582231 JF100404	##### 081XX S E1051A	1	ASSAULT	AGGRAVA APARTME	FALSE	TRUE	631	6	6	44	04A	1180990	1851137	2022	#		
402	12582067 JF100388	##### 024XX W C	860	ASSAULT	RETAIL TH SMALL RE	FALSE	FALSE	1221	12	26	24	6	1160005	1905256	2022	#		
403	12582108 JF100396	##### 039XX W C	850	ASSAULT	ATTEMPT SMAL RE	FALSE	1013	10	22	29	6	1150286	1889027	2022	#			
404	12780801 JF341187	##### 009XX N H	1153	ASSAULT	FINANCI(A)STREET	FALSE	TRUE	1112	11	37	23	11	1149885	1905947	2022	#		
405	12869660 JF447057	##### 066XX W F	810	ASSAULT	OVER \$50 COMMERC	FALSE	FALSE	121	1	42	28	6	1171722	1901225	2022	#		
406	12582866 JF101267	##### 022XX E 7:	2820	ASSAULT	TELEPHON APARTME	FALSE	FALSE	414	4	7	43	08A	1192295	1855670	2022	#		
407	12583416 JF101878	##### 052XX W I	1780	ASSAULT	OTHER OF RESIDENC	FALSE	TRUE	2532	25	37	25	20	1140804	1910126	2022	#		
408	12591939 JF112276	##### 070XX S PF	820	ASSAULT	\$500 AND STREET	FALSE	FALSE	322	3	6	69	6	1179259	1858379	2022	#		
409	12582760 JF101138	##### 006XX N V	820	ASSAULT	\$500 AND APARTME	FALSE	FALSE	1212	12	1	24	6	1160250	1905724	2022	#		
410	12586589 JF105584	##### 006XX W F	930	ASSAULT	THEFT / RIOTHER (S	FALSE	FALSE	124	1	25	28	7	1172310	1897566	2022	#		
411	12582805 JF101163	##### 100XX W C	910	ASSAULT	AUTOMOBILE/PORTF	FALSE	FALSE	1651	16	41	76	7	1100658	1934241	2022	#		
412	12597983 JF118749	##### 071XX S C1	1153	ASSAULT	FINANCI(A)RESIDENC	FALSE	TRUE	333	3	5	43	11	1190603	1857792	2022	#		

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Uscrimes - Excel

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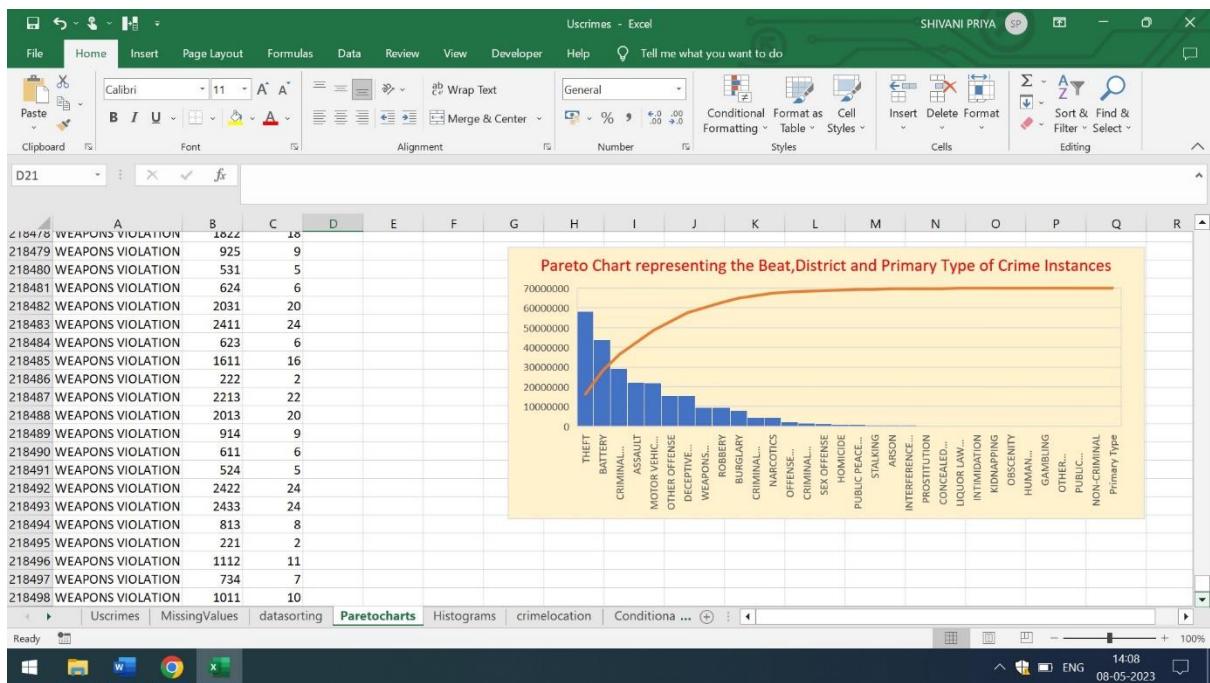
J18 TRUE

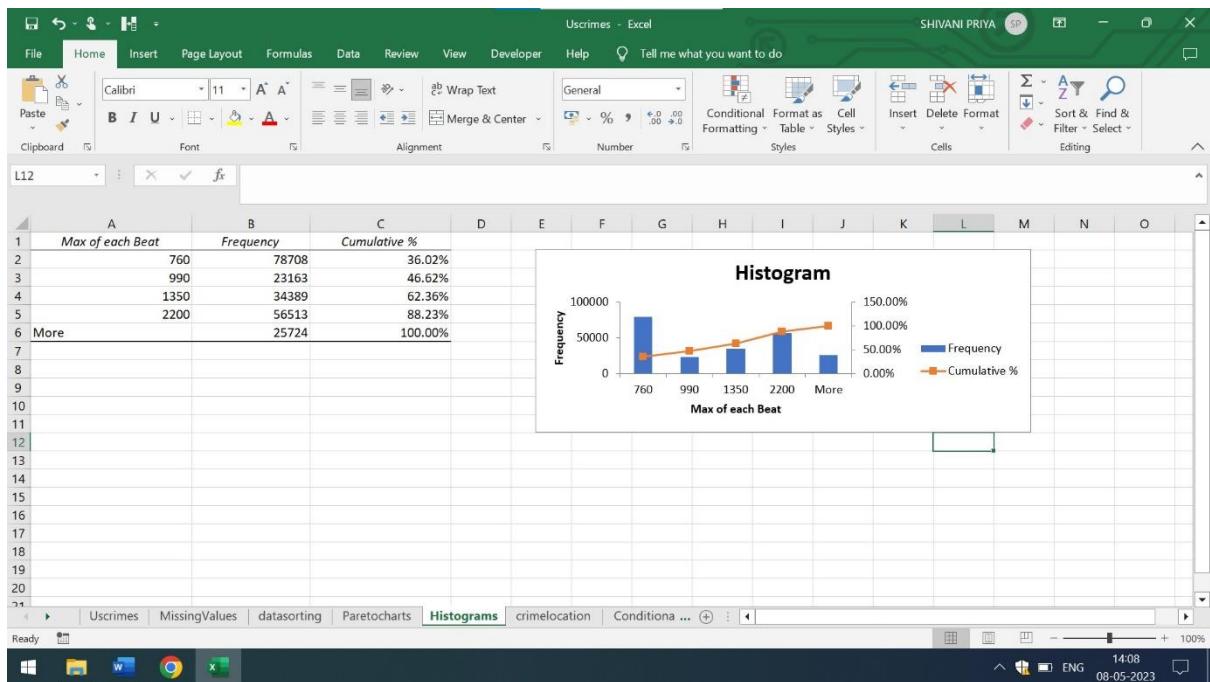
1	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	ID	Case N	Date	Block	IUCR	Primary Type	Descrip	Locatio	Arrest	Domes	Beat	District	Ward	Commu	FBI Cod	X Coor	Y Coor	Year
19955	12618853	JF145413	#####038XXW L	910	BATTERY	AUTOMOISTREET	FALSE	FALSE	1122	11	28	26	7	1150845	1901366	202		
19956	12624397	JF152327	#####065XXW L	1150	BATTERY	CREDIT C OTHER (SF	FALSE	FALSE	2512	25	29	19	11	1132436	1913397	202		
19957	12614650	JF140342	#####007XXS H	2825	BATTERY	HARASSM SCHOOL -	FALSE	FALSE	1232	12	11	28	26	1171155	1897095	202		
19958	12615623	JF140690	#####007XXN S	810	BATTERY	OVER \$500 OTHER (SF	FALSE	FALSE	1221	12	27	23	6	1156097	1904592	202		
19959	12616459	JF142566	#####071XXS H	1310	BATTERY	TO PROPE GAS STATI	TRUE	FALSE	733	7	6	68	14	1172199	1857618	202		
19960	12616192	JF142174	#####025XXW F	820	BATTERY	\$500 AND STREET	FALSE	FALSE	1135	11	28	28	6	1159575	1896950	202		
19961	12615586	JF141417	#####058XXS M	1750	BATTERY	CHILD ABU/APARTME	TRUE	TRUE	824	8	16	63 08B	1160368	1865926	202			
19962	12614379	JF140327	#####062XXW E	498	BATTERY	AGG. DON.APARTME	FALSE	TRUE	812	8	23	64 04B	1135964	1861100	202			
19963	12614862	JF140589	#####048XXW V	4387	BATTERY	VIOLATE CRESIDENC	FALSE	TRUE	2521	25	31	19	26	1143731	1916861	202		
19964	12621344	JF148486	#####052XXW M	1153	BATTERY	FINANCIAI OTHER (SF	FALSE	FALSE	1522	15	29	25	11	1141456	1899159	202		
19965	12614446	JF139924	#####006XXN A	910	BATTERY	AUTOMOISTREET	FALSE	FALSE	1215	12	1	24	7	1165600	1904580	202		
19966	12621208	JF148335	#####042XXW C	1581	BATTERY	NON-CON APARTME	FALSE	TRUE	1012	10	24	29	17	1148428	1890083	202		
19967	12614172	JF139683	#####070XXS IN	1310	BATTERY	TO PROPE APARTME	FALSE	TRUE	322	3	6	69	14	1178811	1858383	202		
19968	12614271	JF139819	#####025XXW F	810	BATTERY	OVER \$500 STREET	FALSE	FALSE	2411	24	50	2	6	1158060	1947356	202		
19969	12636654	JF167238	#####041XXS M	1320	BATTER	TO VEHICL STREET	FALSE	FALSE	213	2	3	38	14	1177842	1877688	202		
19970	12629449	JF158527	#####064XXS T/	820	BATTER	\$500 AND RESIDENC	FALSE	FALSE	825	8	16	66	6	1159815	1861911	202		
19971	12631693	JF144564	#####050XXW F	910	BATTER	AUTOMOI AIRPORT	F	FALSE	814	8	23	56	7	1143591	1867678	202		
19972	12647576	JF180207	#####077XXS M	1156	BATTER	ATTEMPT OTHER (SF	FALSE	FALSE	421	4	7	43	11	1195660	1854186	202		
19973	12717733	JF264985	#####041XXN K	1752	BATTER	AGGRAVA RESIDENC	FALSE	FALSE	1722	17	45	16	17	1145806	1927150	202		
19974	12717733	JF141182	#####041XXN K	1752	BATTER	HAASSA CRIMINAL	FALSE	FALSE	1722	17	45	16	17	1146776	1922678	202		

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The Pareto chart and histogram of the given dataset is attached below:





Q3) Use conditional formatting in excel to generate data bars for the top occurring crime based on its primary type. Use red color to identify the crime where theft is over \$500 in residence and arrest has not been done.

Ans) The overview of the crime where theft is over \$500 in residence and arrest has not been done is represented by conditional formatting in the below attached screenshots

The screenshot shows an Excel spreadsheet with a table containing numerous rows of crime data. The columns include ID, Case Number, Date, Block, IUCR, Primary Type, Description, Location Description, Arrest, Domestic, Beat, District, Ward, Community, FBI Code, X Coord, and Y Coord. The "Arrest" column is highlighted with conditional formatting, showing red for cells where the value is FALSE. This highlights numerous entries where theft occurred in residence but no arrest was made.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	
2859	12587509	JF107055	#####002XXW F		810	THEFT	OVER \$500	RESIDENCE	FALSE	FALSE	1823	18	27	8	6	1174359	19076
2971	12589931	JF109363	#####066XXN A		810	THEFT	OVER \$500	RESIDENCE	FALSE	FALSE	2432	24	49	1	6	1164402	19443
2988	12605444	JF128850	#####055XXW F		810	THEFT	OVER \$500	RESIDENCE	FALSE	FALSE	1524	15	37	25	6	1139148	19071
3080	12602403	JF124715	#####070XXS IN		810	THEFT	OVER \$500	RESIDENCE	FALSE	FALSE	322	3	6	69	6	1178811	18584
3421	12588739	JF108158	#####071XXS HI		810	THEFT	OVER \$500	RESIDENCE	FALSE	FALSE	735	7	17	67	6	1165916	18573
3447	12590270	JF110234	#####0000XX E 1'		810	THEFT	OVER \$500	RESIDENCE	FALSE	FALSE	532	5	9	53	6	1178743	18218
3513	12589928	JF109228	#####020XXN K		810	THEFT	OVER \$500	RESIDENCE	FALSE	FALSE	1811	18	43	7	6	1168968	19138
3560	12590424	JF110477	#####049XXW F		810	THEFT	OVER \$500	RESIDENCE	FALSE	FALSE	1532	15	37	25	6	114295	19032
3798	12587791	JF107339	#####059XXS C/		810	THEFT	OVER \$500	RESIDENCE	FALSE	TRUE	824	8	16	66	6	1158728	18651
4264	12587204	JF109312	#####063XXS HI		810	THEFT	OVER \$500	RESIDENCE	FALSE	FALSE	725	7	15	67	6	1165758	18625
4480	12589454	JF109256	#####106XXS A'		810	THEFT	OVER \$500	RESIDENCE	FALSE	FALSE	432	4	10	52	6	1203499	18350
4490	12588949	JF108874	#####020XXW E		810	THEFT	OVER \$500	RESIDENCE	FALSE	TRUE	735	7	17	67	6	1163890	18585
4521	12589045	JF108969	#####044XXS C/		810	THEFT	OVER \$500	RESIDENCE	FALSE	TRUE	215	2	3	38	6	1179172	18757
4544	12590353	JF109560	#####035XXW 1		810	THEFT	OVER \$500	RESIDENCE	FALSE	FALSE	1021	10	24	29	6	1152926	18940
4784	12590050	JF109487	#####077XXS M		810	THEFT	OVER \$500	RESIDENCE	FALSE	FALSE	612	6	17	71	6	1169993	18535
5166	12619447	JF141650	#####029XXC W		810	THEFT	OVER \$500	RESIDENCE	FALSE	TRUE	835	8	18	70	6	1157853	18531
5199	12607209	JF130875	#####020XXW F		810	THEFT	OVER \$500	RESIDENCE	FALSE	FALSE	2221	22	19	72	6	1164161	18459
5293	12592324	JF112726	#####101XXS V/		810	THEFT	OVER \$500	RESIDENCE	FALSE	FALSE	431	4	7	51	6	1192656	18381
5432	12592546	JF112496	#####122XXS E		810	THEFT	OVER \$500	RESIDENCE	FALSE	FALSE	523	5	34	53	6	1175508	18236
5729	12591376	JF116156	01/13/2029 09:05:07XX S W		810	THEFT	OVER \$500	RESIDENCE	FALSE	FALSE	824	8	14	63	6	1157028	18663
5750	12611929	JF112041	01/13/2029 10:05:01XX Y S M		810	THEFT	OVER \$500	RESIDENCE	FALSE	FALSE	612	6	21	74	6	1171061	19509

F218382	THEFT																		
S729	12591376	JF111656	01/13/2022 09:057XX S W	810	THEFT	OVER \$500	RESIDENCE	FALSE	FALSE	824	8	14	63	6	1157028	18663			
5759	12611878	JF137041	01/13/2022 10:07081XX S M	810	THEFT	OVER \$500	RESIDENCE	FALSE	FALSE	613	6	21	71	6	1171061	18508			
5788	12591307	JF13787	01/13/2022 11:3C003XX N P	810	THEFT	OVER \$500	RESIDENCE	FALSE	FALSE	1523	15	37	25	6	1139439	19017			
5907	12604002	JF127163	01/13/2022 03:035XX N B	810	THEFT	OVER \$500	RESIDENCE	FALSE	FALSE	1711	17	39	13	6	1152343	19379			
5918	12593428	JF113707	01/13/2022 03:5022XX W C	810	THEFT	OVER \$500	RESIDENCE	FALSE	FALSE	1921	19	47	5	6	1160842	19251			
6018	12591621	JF111963	01/13/2022 07:053XX S C	810	THEFT	OVER \$500	RESIDENCE	FALSE	TRUE	934	9	20	61	6	1170220	18694			
6122	12594025	JF114876	01/14/2022 12:0C029XX N T	810	THEFT	OVER \$500	RESIDENCE	FALSE	FALSE	1411	14	33	21	6	1154867	19194			
6307	12604070	JF126498	01/14/2022 10:45036XX S RI	810	THEFT	OVER \$500	RESIDENCE	FALSE	FALSE	212	2	4	35	6	1180179	18810			
6452	12596490	JF112817	01/14/2022 03:056XX S S	810	THEFT	OVER \$500	RESIDENCE	FALSE	TRUE	723	7	6	68	6	1171140	18600			
6540	12593363	JF114035	01/14/2022 06:0092XX S E!	810	THEFT	OVER \$500	RESIDENCE	FALSE	FALSE	413	4	8	47	6	1184499	18439			
6727	12609365	JF13700	01/15/2022 12:0C106XXX S A!	810	THEFT	OVER \$500	RESIDENCE	FALSE	FALSE	432	4	10	52	6	1201520	18349			
6733	12829086	JF398366	01/15/2022 12:01061XX S W	810	THEFT	OVER \$500	RESIDENCE	FALSE	FALSE	314	3	20	42	6	1185269	18646			
6974	12595239	JF116278	01/15/2022 02:0054XX S L	810	THEFT	OVER \$500	RESIDENCE	FALSE	FALSE	234	2	5	41	6	1187681	18695			
6993	12595408	JF116394	01/15/2022 02:092XX S E!	810	THEFT	OVER \$500	RESIDENCE	FALSE	FALSE	2223	22	21	73	6	1172932	18435			
7380	12593375	JF114546	01/16/2022 07:0C050XX W C	810	THEFT	OVER \$500	RESIDENCE	FALSE	TRUE	1532	15	37	25	6	1142471	19035			
7648	12594653	JF115626	01/16/2022 07:045XX W J	810	THEFT	OVER \$500	RESIDENCE	FALSE	FALSE	1113	11	28	26	6	1146097	18983			
7771	12610118	JF134654	01/17/2022 12:0C049XX W F	810	THEFT	OVER \$500	RESIDENCE	FALSE	TRUE	2521	25	31	19	6	1142923	19178			
7873	12596775	JF118144	01/17/2022 09:0006XX N L	810	THEFT	OVER \$500	RESIDENCE	FALSE	FALSE	1524	15	37	25	6	1140563	19037			
7952	12639390	JF164649	01/17/2022 12:24076XX S H	810	THEFT	OVER \$500	RESIDENCE	FALSE	FALSE	611	6	17	71	6	1165342	18540			
7954	12596170	JF116622	01/17/2022 12:3C068XX S R!	810	THEFT	OVER \$500	RESIDENCE	FALSE	TRUE	832	8	17	66	6	1160218	18592			
7977	12507207	JF116580	01/17/2022 10:0053XX W E	810	THEFT	OVER \$500	RESIDENCE	FALSE	FALSE	1622	16	45	11	6	1120904	10240			

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F218382 THEFT

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
12919334 JF500303 ##### U21XX N S				810 THEFT OVER \$500 RESIDENCE FALSE					TRUE 935	9	3	37	6	1175195	186	
214597 12914972 JF501251 ##### 053XX S PF	810	THEFT	OVER \$500	RESIDENCE	FALSE				FALSE 713	7	16	67	6	1167388	186	
214671 12912410 JF497421 ##### 061XX S LF	810	THEFT	OVER \$500	RESIDENCE	FALSE				FALSE 2233	22	34	49	6	1174175	183	
214695 12910970 JF496397 ##### 105XX S W	810	THEFT	OVER \$500	RESIDENCE	FALSE				FALSE 823	8	23	66	6	1154633	186	
215658 12916663 JF503007 ##### 034XX W E	810	THEFT	OVER \$500	RESIDENCE	FALSE				FALSE 312	3	20	42	6	1183114	186	
215806 12911613 JF497164 ##### 008XX E G	810	THEFT	OVER \$500	RESIDENCE	FALSE				FALSE 1622	16	45	11	6	1135862	193	
216024 12912953 JF498575 ##### 051XX N M	810	THEFT	OVER \$500	RESIDENCE	FALSE				TRUE 2531	25	29	25	6	1138057	190	
216118 12912130 JF497851 ##### 015XX N W	810	THEFT	OVER \$500	RESIDENCE	FALSE				FALSE 1724	17	33	16	6	1156254	192	
216317 12912238 JF498035 ##### 029XX W I	810	THEFT	OVER \$500	RESIDENCE	FALSE				FALSE 2223	22	21	73	6	1172677	184	
216360 12919593 JF499534 ##### 096XX S H	810	THEFT	OVER \$500	RESIDENCE	FALSE				FALSE 2212	22	34	75	6	1164669	182	
216570 12912622 JF498387 ##### 117XX S H	810	THEFT	OVER \$500	RESIDENCE	FALSE				FALSE 1634	16	45	15	6	1142702	192	
216593 12912591 JF498417 ##### 049XX W V	810	THEFT	OVER \$500	RESIDENCE	FALSE				FALSE 714	7	15	67	6	1166255	186	
216619 12913682 JF499679 ##### 016XX W E	810	THEFT	OVER \$500	RESIDENCE	FALSE				FALSE 1623	16	45	15	6	1140549	192	
216988 12913999 JF500105 ##### 052XX W V	810	THEFT	OVER \$500	RESIDENCE	FALSE				FALSE 1724	17	33	16	6	1153233	192	
217039 12913797 JF499793 ##### 033XX W I	810	THEFT	OVER \$500	RESIDENCE	FALSE				FALSE 1634	16	30	15	6	1140244	192	
217459 12916835 JF502319 ##### 053XX W F	810	THEFT	OVER \$500	RESIDENCE	FALSE				FALSE 132	1	3	33	6	1177434	189	
217666 12916927 JF503393 ##### 003XX S M	810	THEFT	OVER \$500	RESIDENCE	FALSE				FALSE 113	1	42	32	6	1177341	189	
217832 12914748 JF500887 ##### 010XX N L	810	THEFT	OVER \$500	RESIDENCE	FALSE				TRUE 1531	15	37	25	6	1142504	190	
218390 12916013 JF502414 ##### 013XX W F	810	THEFT	OVER \$500	RESIDENCE	FALSE				FALSE 1932	19	2	7	6	1166801	191	
218413 12916889 JF503010 ##### 026XX W V	810	THEFT	OVER \$500	RESIDENCE	FALSE				FALSE 1222	12	27	27	6	1158609	190	

Q4) Generate a frequency distribution chart of the data for the community area and note any skewness.

Ans) The frequency distribution chart of the data for the community area is mention below:

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PivotTable Tools

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C9 10150184954

Year	(All)	Count of FBI Code	Sum of Y Coordinate	Sum of X Coordinate	Sum of Ward	Sum of FBI Code	Frequency Distribution of Community Area
1		3711	7226895044	4321603278	180737	26449	
2		3621	7035812133	4194062275	171649	27692	
3		3514	6785164907	4105630642	162904	24935	
4		1801	3481889021	2088112719	75974	13848	
5		1176	2262842284	1365686045	47780	9316	
6		5279	10150184954	6172783610	231918	38179	Pivot table representing the investigation code for the criminals, information about the different locations, summation of the ward of the victim and summation of the
7		3224	6175426431	3773580185	113186	24359	
8		9628	18349620327	11319157062	301477	70357	
9		274	533015146	308411396	11234	2522	
10		1140	2209007112	1287137182	47206	9105	
11		961	1858858322	1093295044	42885	7835	
12		556	1078578389	634980097	22414	5004	
13		917	1776826903	1056270245	38149	6782	
14		1958	3781447160	2253921450	69314	15550	
15		2747	5290294107	3131010662	103904	22681	
16		2362	4549824917	2717811468	86679	18992	
17		1411	2713776305	1592755549	51869	11640	
18		611	1171420176	60006690	20295	5255	



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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
58	55	567	1031288543	680098325	5670	4256									
59	56	1768	3304696715	2017491099	33645	14923									
60	57	905	1695055503	1040413750	13514	6827									
61	58	1951	3660364873	2258792869	26648	13553									
62	59	784	1475081992	912601166	10425	5498									
63	60	1411	2658304351	1652292758	15521	10885									
64	61	3528	6605875761	4117667294	57145	25207									
65	62	782	1460416435	899361615	14702	6324									
66	63	1809	3380201342	2094513413	27087	12991									
67	64	912	1698333081	1038284675	13766	7188									
68	65	1468	2730517398	1687976700	24514	10916									
69	66	4483	8342677441	5195894171	77602	32131									
70	67	4444	8273395198	5184191077	69212	32599									
71	68	4360	8116295882	5111724952	55085	29934									
72	69	5534	10276271065	6526669032	45887	39145									
73	70	1841	3406870743	2125920890	33140	13623									
74	71	5815	10762249673	6799695938	111231	43087									
75	72	825	1516685525	960743225	16254	7028									
76	73	2691	4954260353	3150687023	65172	20315									
77	74	493	902989526	569238630	9367	4453									
78	75	1606	2938943021	1874174479	45319	12748									
79	76	1523	2946662099	1685512741	62275	14559									
80	77	2616	5071111224	3052857198	122384	17895									
81	Grand Total	218497	4.1229E+11	2.54638E+11	5093000	1641244									

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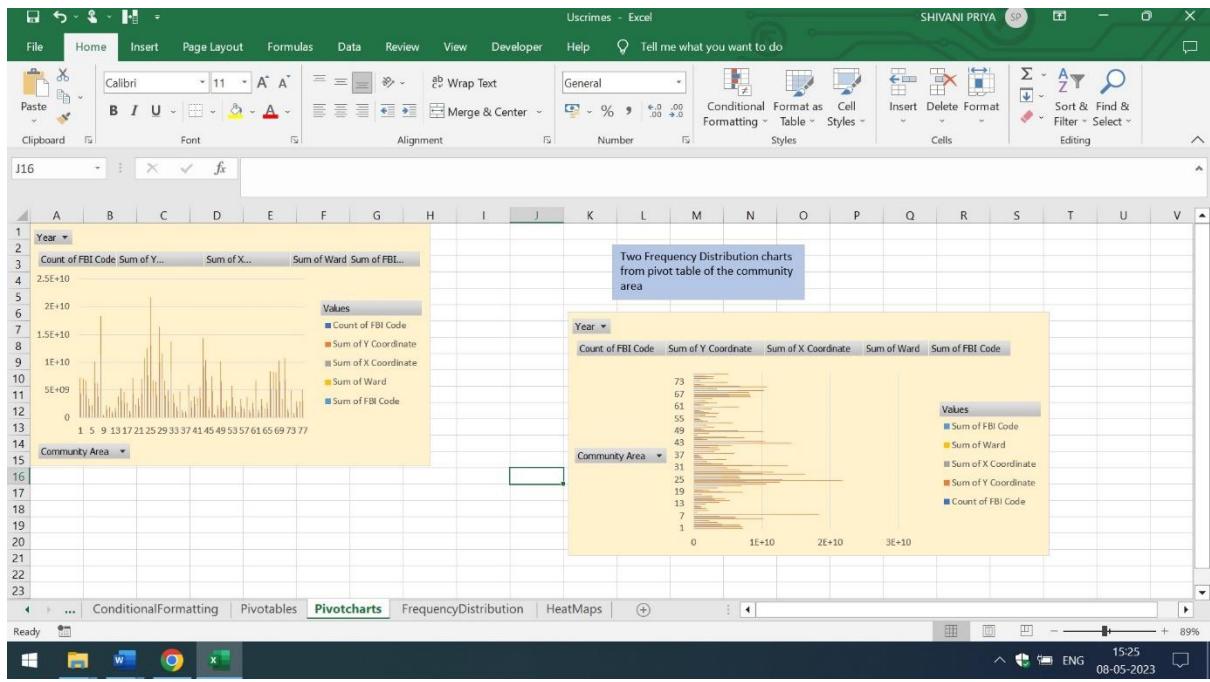
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Font Alignment Number Styles Cells Editing

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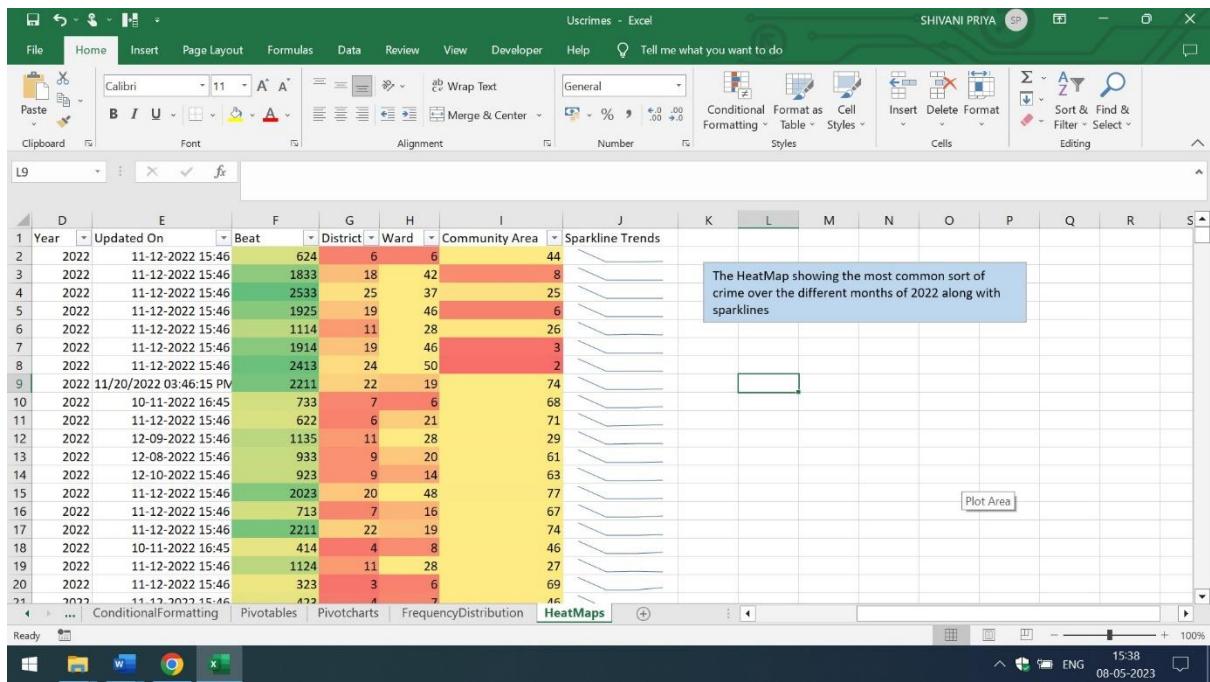
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
64	61	3528	6605875761	4117667294	57145	25207									
65	62	782	1460416435	899361615	14702	6324									
66	63	1809	3380201342	2094513413	27087	12991									
67	64	912	1698333081	1038284675	13766	7188									
68	65	1468	2730517398	1687976700	24514	10916									
69	66	4483	8342677441	5195894171	77602	32131									
70	67	4444	8273395198	5184191077	69212	32599									
71	68	4360	8116295882	5111724952	55085	29934									
72	69	5534	10276271065	6526669032	45887	39145									
73	70	1841	3406870743	2125920890	33140	13623									
74	71	5815	10762249673	6799695938	111231	43087									
75	72	825	1516685525	960743225	16254	7028									
76	73	2691	4954260353	3150687023	65172	20315									
77	74	493	902989526	569238630	9367	4453									
78	75	1606	2938943021	1874174479	45319	12748									
79	76	1523	2946662099	1685512741	62275	14559									
80	77	2616	5071111224	3052857198	122384	17895									
81	Grand Total	218497	4.1229E+11	2.54638E+11	5093000	1641244									

The pivotchart from the pivot table is mention below:



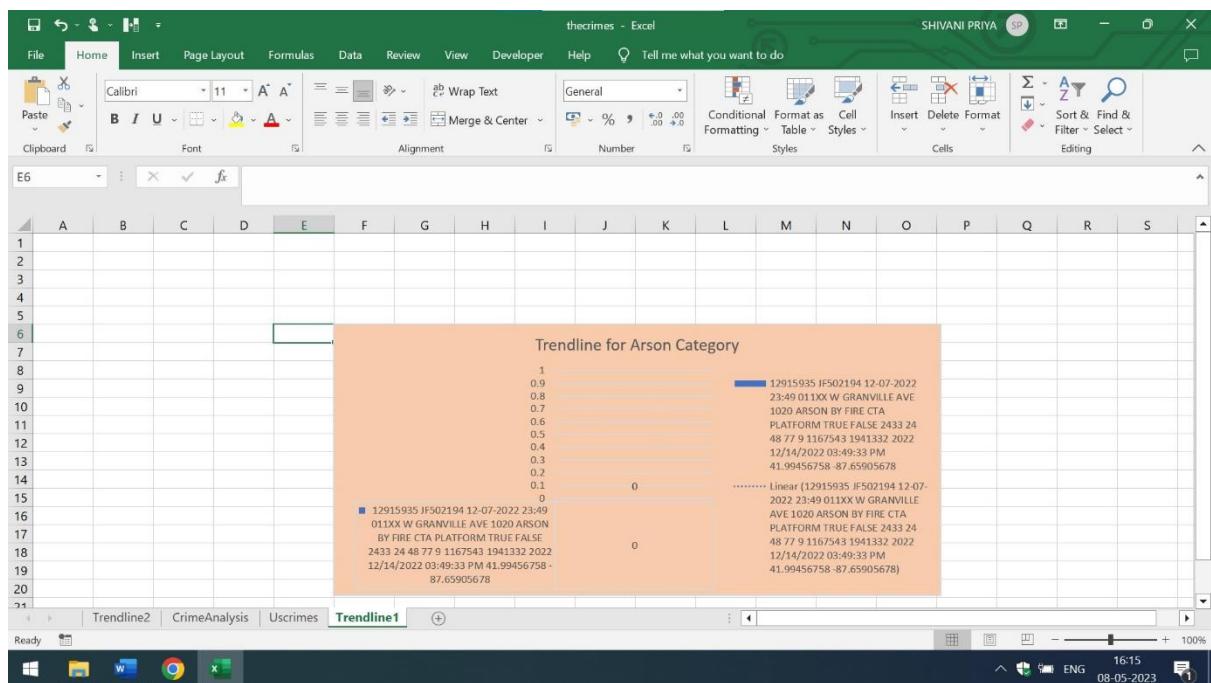
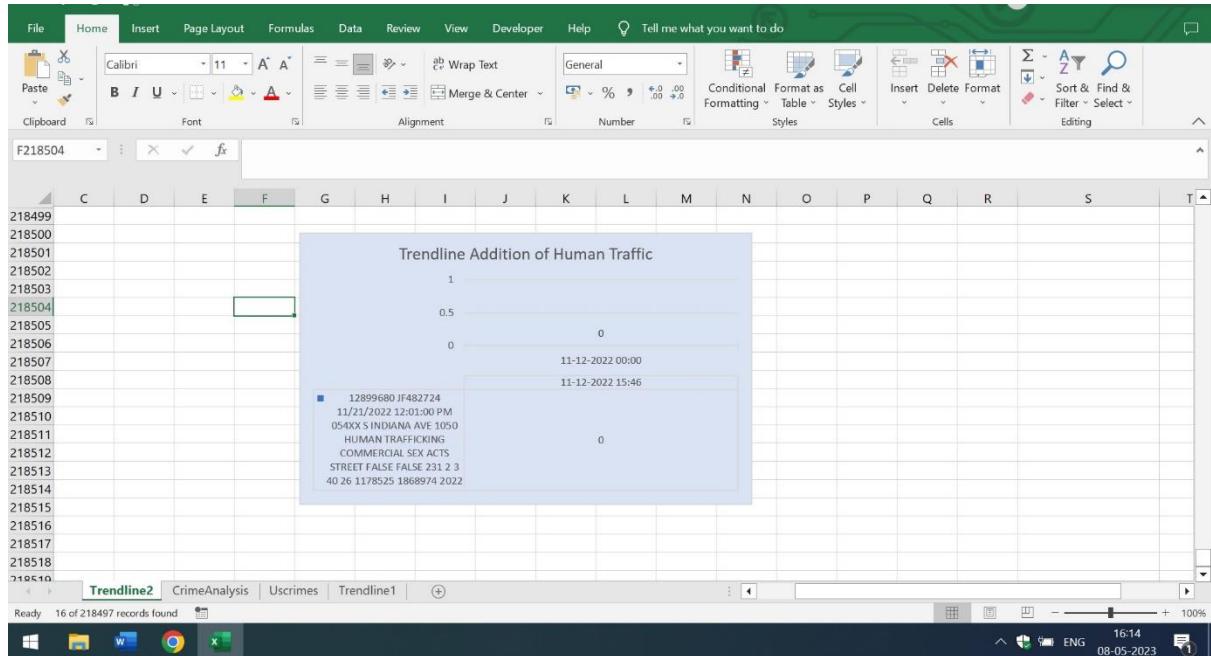
**Q5) To find trends and patterns for the most common sort of crime over the different months of 2022, create a heatmap and sparklines.**

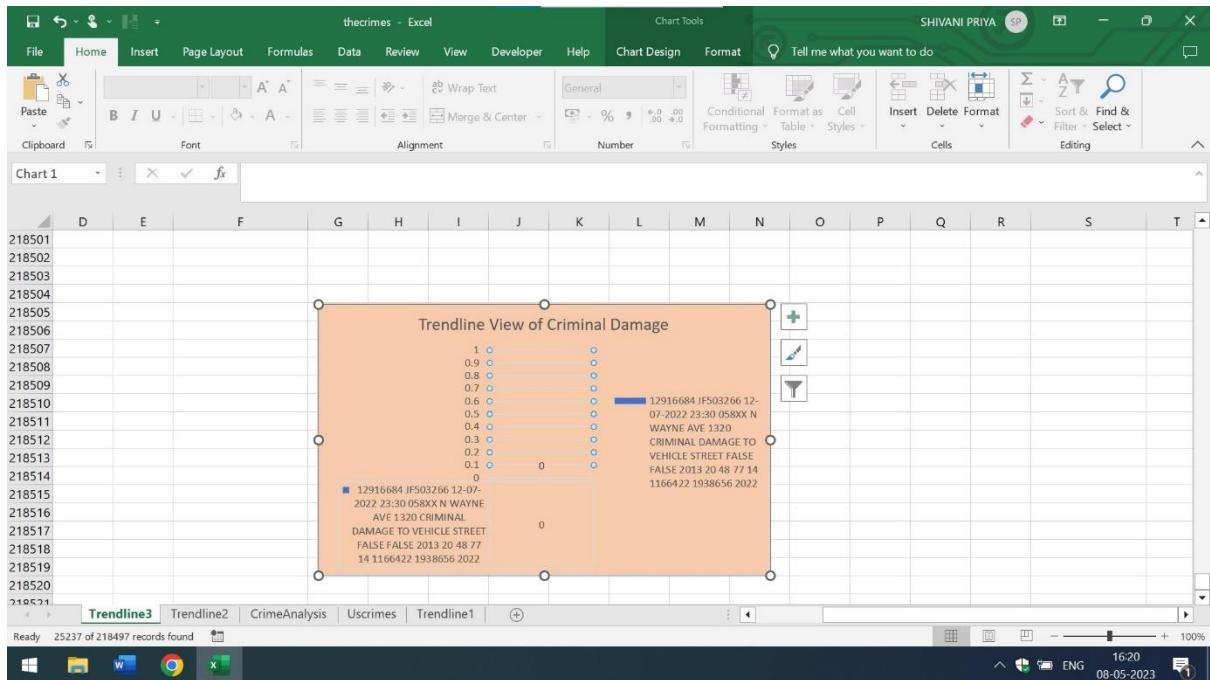
**Ans)** The heatmap and sparklines for the most common sort of crime over different months of 2022 is mentioned below:



Q6) To predict the future number of total crimes across all categories, create a trendline for the frequency of each key crime type occurring in 2022.

Ans) The below mentioned are the screenshots of trendlines of crimes of three categories which are Human Traffic, Arson and Criminal Damage





**Q7) Create a cross-pivot table for the community area and crime description, then analyze the results.**

**Ans)** The pivot table representing the count and sum of ward,District and Beat are as follows:

Community Area	(All)	Count of Beat	Sum of Ward	Sum of District	Sum of Beat	Count of Ward	Count of District
1 Community Area	(All)						
4 \$500 AND UNDER		17312	413491	201090	20504887	17312	17312
5 ABUSE / NEGLECT - CARE FACILITY		11	342	183	18495	11	11
6 AGG. DOMESTIC BATTERY - HANDS, FISTS, FEET, SERIOUS INJURY		746	13119	6329	649790	746	746
7 AGG. PROTECTED EMPLOYEE - HANDS, FISTS, FEET, SERIOUS INJURY		44	1083	536	54682	44	44
8 AGGRAVATED		456	10202	5028	513610	456	456
9 AGGRAVATED - HANDGUN		6442	127247	62942	6444556	6442	6442
10 AGGRAVATED - HANDS, FISTS, FEET, NO / MINOR INJURY		201	4276	1931	197796	201	201
11 AGGRAVATED - HANDS, FISTS, FEET, SERIOUS INJURY		128	2924	1410	144111	128	128
12 AGGRAVATED - KNIFE / CUTTING INSTRUMENT		1943	43391	20377	2082204	1943	1943
13 AGGRAVATED - OTHER		173	4402	2115	215467	173	173
14 AGGRAVATED - OTHER DANGEROUS WEAPON		2471	55125	26859	2742904	2471	2471
15 AGGRAVATED - OTHER FIREARM		149	3196	1554	158818	149	149
16 AGGRAVATED CRIMINAL SEXUAL ABUSE		127	2949	1464	149331	127	127
17 AGGRAVATED CRIMINAL SEXUAL ABUSE BY FAMILY MEMBER		185	3877	2174	221741	185	185
18 AGGRAVATED DOMESTIC BATTERY - HANDGUN		13	257	119	12230	13	13
19 AGGRAVATED DOMESTIC BATTERY - KNIFE / CUTTING INSTRUMENT		465	9033	4233	433740	465	465
20 AGGRAVATED DOMESTIC BATTERY - OTHER DANGEROUS WEAPON		913	17926	8362	856744	913	913
21 AGGRAVATED FINANCIAL IDENTITY THEFT		52	1201	602	70501	52	52

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D1

A	B	C	D	E	F	G	H	I	J	K
22 AGGRAVATED OF A CHILD	76	1462	643	65985	76	76				
23 AGGRAVATED OF A SENIOR CITIZEN	307	6785	3207	327588	307	307				
24 AGGRAVATED OF AN UNBORN CHILD	2	48	20	2035	2	2				
25 AGGRAVATED P.O. - HANDS, FISTS, FEET, NO / MINOR INJURY	412	9660	4502	459775	412	412				
26 AGGRAVATED P.O. - HANDS, FISTS, FEET, SERIOUS INJURY	60	1318	686	70121	60	60				
27 AGGRAVATED POLICE OFFICER - HANDGUN	49	1071	470	48214	49	49				
28 AGGRAVATED POLICE OFFICER - HANDS, FISTS, FEET, NO INJURY	87	1917	937	95876	87	87				
29 AGGRAVATED POLICE OFFICER - KNIFE / CUTTING INSTRUMENT	7	207	92	9389	7	7				
30 AGGRAVATED POLICE OFFICER - OTHER DANGEROUS WEAPON	103	2455	1040	106452	103	103				
31 AGGRAVATED POLICE OFFICER - OTHER FIREARM	6	66	43	4452	6	6				
32 AGGRAVATED PROTECTED EMPLOYEE - HANDGUN	25	603	216	22260	25	25				
33 AGGRAVATED PROTECTED EMPLOYEE - KNIFE / CUTTING INSTRUMENT	22	564	241	24544	22	22				
34 AGGRAVATED PROTECTED EMPLOYEE - OTHER DANGEROUS WEAPON	76	1728	741	75774	76	76				
35 AGGRAVATED PROTECTED EMPLOYEE - OTHER FIREARM	5	127	37	3799	5	5				
36 AGGRAVATED SEXUAL ASSAULT OF CHILD BY FAMILY MEMBER	115	2124	1048	107405	115	115				
37 AGGRAVATED VEHICULAR HIJACKING	1163	23944	11947	1221548	1163	1163				
38 ALTER / FORGE PRESCRIPTION	10	301	153	15553	10	10				
39 ANIMAL ABUSE / NEGLECT	140	3331	1621	165339	140	140				
40 ANIMAL FIGHTING	1	20	9	933	1	1				
41 ARMED - HANDGUN	3254	68733	35091	3584584	3254	3254				
42 ARMED - KNIFE / CUTTING INSTRUMENT	224	8101	4191	425602	224	224				

Sheet6 MyPivots Trendline3 Trendline2 CrimeAnalysis UsCrimes Trendline1

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D1

A	B	C	D	E	F	G	H	I	J	K
42 ARMED - KNIFE / CUTTING INSTRUMENT	324	8191	4181	425692	324	324				
43 ARMED - OTHER DANGEROUS WEAPON	198	4550	2222	226809	198	198				
44 ARMED - OTHER FIREARM	61	1362	654	66839	61	61				
45 ARMED VIOLENCE	2	76	36	3647	2	2				
46 ARMED WHILE UNDER THE INFLUENCE	27	566	335	34152	27	27				
47 ARSON THREAT	74	1999	931	94780	74	74				
48 ARSONIST - ANNUAL REGISTRATION	2	38	19	1966	2	2				
49 ARSONIST - FAIL TO REGISTER NEW ADDRESS	2	67	13	1346	2	2				
50 ATTEMPT - AUTOMOBILE	1979	38137	18936	1938692	1979	1979				
51 ATTEMPT - CYCLE, SCOOTER, BIKE NO VIN	1	31	25	2522	1	1				
52 ATTEMPT - CYCLE, SCOOTER, BIKE WITH VIN	10	269	122	12390	10	10				
53 ATTEMPT - FINANCIAL IDENTITY THEFT	679	17281	8651	880115	679	679				
54 ATTEMPT - TRUCK, BUS, MOTOR HOME	12	242	115	11787	12	12				
55 ATTEMPT AGGRAVATED	65	1386	606	62202	65	65				
56 ATTEMPT AGGRAVATED - HANDGUN	7	107	57	5843	7	7				
57 ATTEMPT AGGRAVATED - KNIFE / CUTTING INSTRUMENT	1	17	8	832	1	1				
58 ATTEMPT AGGRAVATED - OTHER	12	350	149	15175	12	12				
59 ATTEMPT AGGRAVATED CRIMINAL SEXUAL ABUSE	10	175	87	8907	10	10				
60 ATTEMPT ARMED - HANDGUN	320	7004	3546	362081	320	320				
61 ATTEMPT ARMED - KNIFE / CUTTING INSTRUMENT	48	1242	542	55286	48	48				
62 ATTEMPT ARMED - OTHER DANGEROUS WEAPON	40	1050	470	43805	40	40				

Sheet6 MyPivots Trendline3 Trendline2 CrimeAnalysis UsCrimes Trendline1

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	A	B	C	D	E	F	G	H	I	J	K
62	ATTEMPT ARMED - OTHER DANGEROUS WEAPON	40	1059	429	43805	40	40				
63	ATTEMPT ARMED - OTHER FIREARM	16	357	205	20902	16	16				
64	ATTEMPT ARSON	38	991	491	49976	38	38				
65	ATTEMPT CRIMINAL SEXUAL ABUSE	30	742	379	38548	30	30				
66	ATTEMPT FORCIBLE ENTRY	328	7892	3818	389232	328	328				
67	ATTEMPT NON-AGGRAVATED	43	1181	605	61499	43	43				
68	ATTEMPT POSSESSION NARCOTICS	1	6	6	624	1	1				
69	ATTEMPT STRONG ARM - NO WEAPON	248	5910	2751	280707	248	248				
70	ATTEMPT THEFT	344	9485	4318	439604	344	344				
71	AUTOMOBILE	15534	326492	161212	16483973	15534	15534				
72	BOARD PLANE WITH WEAPON	19	677	272	28042	19	19				
73	BOGUS CHECK	566	16771	7881	800415	566	566				
74	BOMB THREAT	100	2729	1155	117870	100	100				
75	BY EXPLOSIVE	8	207	86	8790	8	8				
76	BY FIRE	311	7048	3476	354592	311	311				
77	CALL OPERATION	2	84	36	3668	2	2				
78	CANNABIS PLANT	1	28	15	1532	1	1				
79	CHILD ABANDONMENT	26	509	233	23856	26	26				
80	CHILD ABDUCTION	48	807	362	37298	48	48				
81	CHILD ABDUCTION / STRANGER	32	733	407	41354	32	32				
82	CRIMINAL ARSON	111	111	111	111	111	111				

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	A	B	C	D	E	F	G	H	I	J	K
84	COMMERCIAL SEX ACTS	12	274	104	10658	12	12				
85	COMPOUNDING A CRIME	1	24	10	1033	1	1				
86	COMPUTER FRAUD	241	6405	3202	325535	241	241				
87	CONCEALED CARRY LICENSE REVOCATION	4	85	45	4597	4	4				
88	CONTRIBUTE TO THE CRIMINAL DELINQUENCY OF CHILD	1	38	16	1632	1	1				
89	CONTRIBUTE TO THE DELINQUENCY OF CHILD	4	79	52	5275	4	4				
90	COUNTERFEIT CHECK	296	8934	3964	403132	296	296				
91	COUNTERFEITING DOCUMENT	188	5458	2427	246934	188	188				
92	CREDIT CARD FRAUD	2080	56197	26005	2649014	2080	2080				
93	CRIMINAL DEFACEMENT	376	10176	4879	495963	376	376				
94	CRIMINAL DRUG CONSPIRACY	2	43	24	2457	2	2				
95	CRIMINAL SEXUAL ABUSE	373	9987	4845	493177	373	373				
96	CRIMINAL SEXUAL ABUSE BY FAMILY MEMBER	119	2567	1292	131942	119	119				
97	CRIMINAL TRANSMISSION OF HIV	2	27	13	1365	2	2				
98	CYBERSTALKING	40	1143	567	57672	40	40				
99	CYCLE, SCOOTER, BIKE NO VIN	50	1650	864	87539	50	50				
100	CYCLE, SCOOTER, BIKE WITH VIN	267	8328	4095	415548	267	267				
101	DECEPTIVE COLLECTION PRACTICES	17	444	189	19267	17	17				
102	DEFACE IDENTIFICATION MARKS OF FIREARM	1	35	17	1723	1	1				
103	DELIVER CONTROLLED SUBSTANCES TO PERSON UNDER 18	1	42	1	112	1	1				
104	DELIVERY CONTAINED TUES	21	402	169	17220	21	21				

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D1

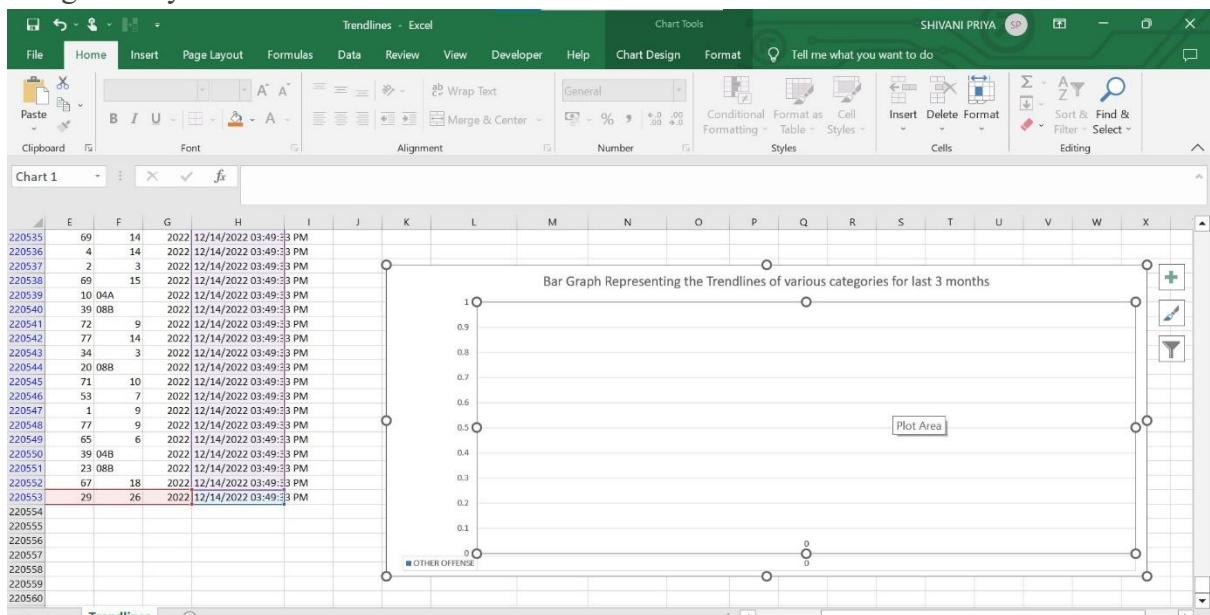
A	B	C	D	E	F	G	H	I	J	K
263 UNLAWFUL SALE - HANDGUN		1	4	1	133	1	1			
264 UNLAWFUL USE - HANDGUN	264	4567	2160	222232	264		264			
265 UNLAWFUL USE - OTHER DANGEROUS WEAPON		58	1482	626	63863	58	58			
266 UNLAWFUL USE - OTHER FIREARM	341	2975	1363	143913	341	341	341			
267 UNLAWFUL USE / SALE OF AIR RIFLE		22	563	258	26298	22	22			
268 UNLAWFUL USE OF A COMPUTER	26	795	390	39628	26	26	26			
269 UNLAWFUL VISITATION INTERFERENCE		20	384	180	18393	20	20			
270 VEHICLE TITLE / REGISTRATION OFFENSE	462	10911	5987	609591	462	462	462			
271 VEHICULAR HIJACKING	377	7893	4109	418056	377	377	377			
272 VIOLATE ORDER OF PROTECTION	1652	37335	19051	1943218	1652	1652	1652			
273 VIOLATION GPS MONITORING DEVICE		85	1546	610	62879	85	85			
274 VIOLATION OF BAIL BOND - DOMESTIC VIOLENCE	28	533	254	26129	28	28	28			
275 VIOLATION OF CIVIL NO CONTACT ORDER	118	2479	1337	136263	118	118	118			
276 VIOLATION OF SMOKING BAN		1	21	5	511	1	1			
277 VIOLATION OF STALKING NO CONTACT ORDER	83	1696	964	98186	83	83	83			
278 VIOLATION OF SUMMARY CLOSURE	4	89	64	6497	4	4	4			
279 VIOLENT OFFENDER - ANNUAL REGISTRATION	28	525	281	28744	28	28	28			
280 VIOLENT OFFENDER - DUTY TO REGISTER	16	438	167	17013	16	16	16			
281 VIOLENT OFFENDER - FAIL TO REGISTER NEW ADDRESS	5	166	83	8401	5	5	5			
<b>282 Grand Total</b>		<b>218497</b>	<b>5093000</b>	<b>2464816</b>	<b>251507169</b>	<b>218497</b>	<b>218497</b>			

Sheet6 MyPivots Trendline3 Trendline2 CrimeAnalysis Uscrimes Trendline1

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Q8) Create an excel dashboard that displays trend charts over the last three months for the several key categories of crimes based on the overall number of crimes that have occurred. (To make a dynamic chart, use form controls.)

Ans) The bar chart showing the trendline of various three categories are mentioned below along with dynamic dashboard with combo box control



Screenshot of Microsoft Excel showing a data analysis project titled "Trendlines - Excel". The ribbon tabs include File, Home, Insert, Page Layout, Formulas, Data, Review, View, Developer, Help, and Tell me what you want to do. The Home tab is selected.

The main content area displays a table of crime data with columns: Commi, FBI Cox, Year, Updated On, Primary Type, Beat Value, District Value, and Ward Value. A tooltip "Form control representing the Beat,District and Ward of Various Primary Type Categories for last three months" is visible over the Primary Type column.

A specific row is highlighted with a blue background, showing data for "OFFENSE INVOLVING CHI" with Beat Value 1114, District Value 11, and Ward Value 28. Two dropdown menus are open under the Primary Type column:

- The first dropdown shows "OFFENSE INVOLVING CHI" as the selected item.
- The second dropdown shows three options: "11-12-2022 15:46", "11-12-2022 15:46", and "11-12-2022 15:46".

A blue box labeled "Choose from these two combo boxes" is positioned between the two dropdowns.

The status bar at the bottom shows "Ready Filter Mode" and the date "08-05-2023".

For more detailed description of US Crime Exploration analysis Project in Excel, click on the below given link

<https://github.com/shivanipriya89/UsCrimeAnalysis/blob/main/Trendlines.xlsx>