

**Workshop Business Intelligence
Pertemuan 8**

Politeknik Caltex Riau

Nama : Sella Septiana
Nim : 2057301091
Kelas : 3 SIB

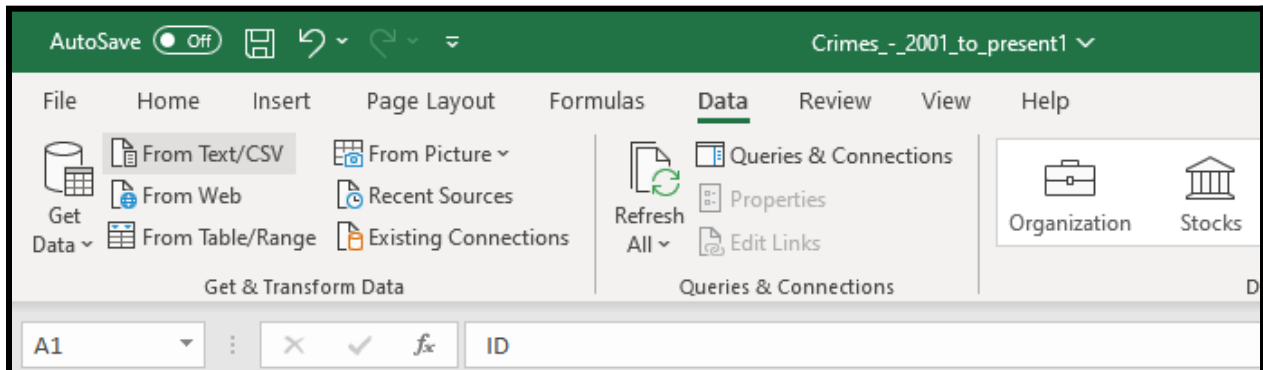
Dosen Pengampu : Mutia Sari Zulvi, S.S.T., M.M.S.I
AIL : Ahmad Fauzi, S.Tr.Kom

**Jurusan Teknologi Informasi
Prodi Sistem Informasi
2022/2023**

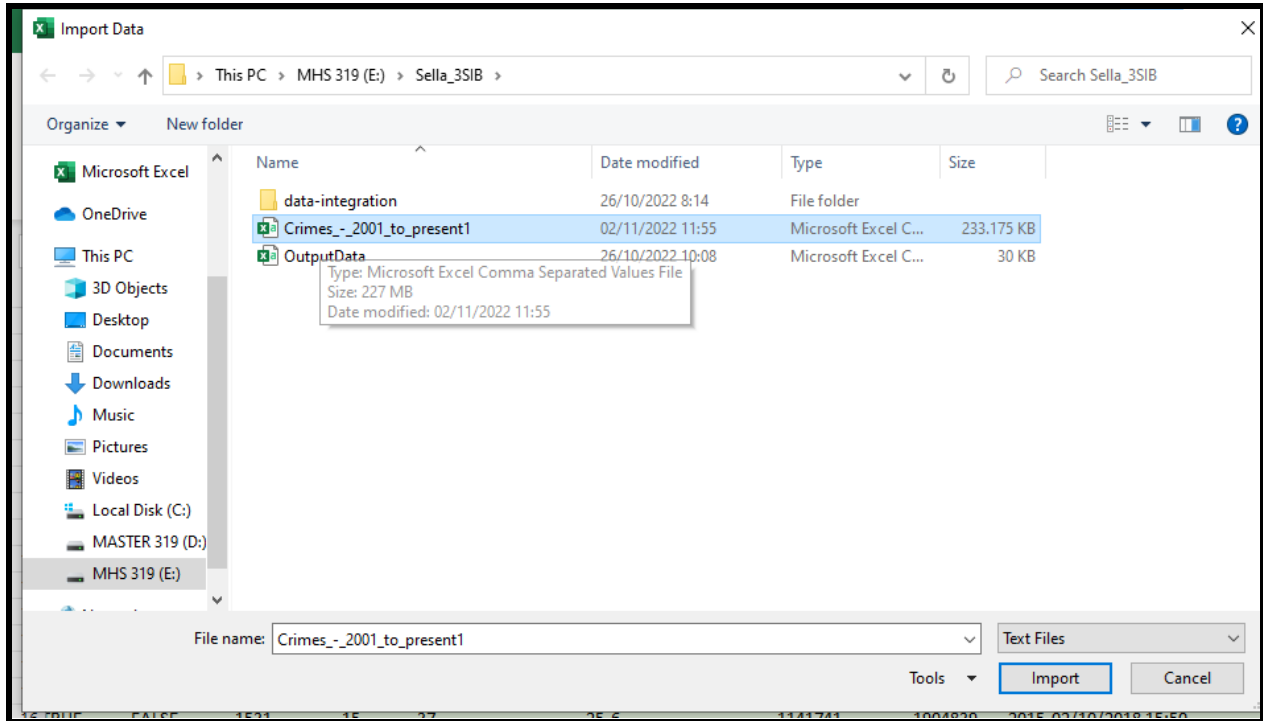
1. Pilih data Crimes_2001_to_present1 untuk dijadikan sebuah table

ID	Case Num	Date	Block	UCR	Primary T	Descriptive Location	Arrest	Domestic	Beat	District	Ward	Communi	FBI Code	X	Y	Z	Latitude	Longitude	Location	
1	10000092	HY189866	03/18/201 04XX W	041A	BATTERY	AGGRAVATED	FALSE	FALSE	1111	11	28	25	04B	1144606	1903566	2015	02/10/2018 15:50	41.891398.861	-87.744.384.567	(41.891398861, -87.744384567)
2	10000094	HY190059	03/18/201 06XX S	M	4625	OTHER OF PAROLE V STREET	TRUE	FALSE	725	7	15	67	26	1166468	1860715	2015	02/10/2018 15:50	41.773.371.528	-87.665.319.468	(41.773371528, -87.665319468)
3	10000095	HY190052	03/18/201 04XX S	U	486	BATTERY DOMESTIC	FALSE	TRUE	222	2	4	39	08B	1185075	1875622	2015	02/10/2018 15:50	41.811.386.068	-87.596.642.837	(41.811386068, -87.596642837)
4	10000096	HY190054	03/18/201 05XX S	M	460	BATTERY SIMPLE	FALSE	FALSE	225	2	3	40	08B	1178031	1870804	2015	02/10/2018 15:50	41.800.802.415	-87.622.619.343	(41.800802415, -87.622619343)
5	10000097	HY189976	03/18/201 07XX W	031A	ROBBERY	ARMED-HSIDEWALK	FALSE	FALSE	1113	11	28	25	3	1144920	1898709	2015	02/10/2018 15:50	41.876.564.761	-87.743.354.013	(41.876564761, -87.743354013)
6	10000098	HY190032	03/18/201 04XX S	D	490	BATTERY SIMPLE	FALSE	FALSE	223	2	4	39	08B	1183018	1872537	2015	02/10/2018 15:50	41.805.443.345	-87.604.283.976	(41.805443345, -87.604283976)
7	10000099	HY190047	03/18/201 07XX S	M	486	BATTERY DOMESTIC	FALSE	TRUE	733	7	17	68	08B	1170859	1858210	2015	02/10/2018 15:50	41.766.402.779	-87.649.296.123	(41.766402779, -87.649296123)
8	10000100	HY189988	03/18/201 04XX S	PI	486	BATTERY DOMESTIC	FALSE	TRUE	213	2	3	38	08B	1178746	1876914	2015	02/10/2018 15:50	41.817.552.577	-87.619.818.523	(41.817552577, -87.619818523)
9	10000101	HY190020	03/18/201 03XX S	W	1811	NARCOTIC POSS: CAP STREET	TRUE	FALSE	912	9	11	59	18	1164279	1880656	2015	02/10/2018 15:50	41.828.138.428	-87.672.782.106	(41.828138428, -87.672782106)
10	10000104	HY189964	03/18/201 09XX S	P	460	BATTERY SIMPLE	FALSE	FALSE	511	5	6	49	08B	1179637	1840444	2015	02/10/2018 15:50	41.717.745.472	-87.617.663.257	(41.71745472, -87.617663257)
11	10000105	HY189984	03/18/201 11XX S	D	1300	CRIMINAL TO VEHIC(PARKING)	FALSE	FALSE	533	5	9	54	14	1189097	1818839	2015	02/10/2018 15:50	41.658.138.493	-87.613.672.862	(41.658138493, -87.613672862)
12	10000108	HY189719	03/15/201 07XX S	U	2825	OTHER OF HARASSM CTA GARA	FALSE	TRUE	623	6	17	69	26	1175130	1853144	2015	02/10/2018 15:50	41.752.406.801	-87.633.792.381	(41.752406801, -87.633792381)
13	10000109	HY189966	03/18/201 08XX S	S	143A	WEAPON UNLAWFUL DRIVEWAY	FALSE	FALSE	423	4	10	46	15	1197309	1848290	2015	02/10/2018 15:50	41.738.563.465	-87.552.678.593	(41.738563465, -87.552678593)
14	10000110	HY190056	03/18/201 01XX S	A	460	BATTERY SIMPLE	FALSE	FALSE	1233	12	2	28	08B	1165950	1893388	2015	02/10/2018 15:50	41.886.304.084	-87.666.288.555	(41.886304084, -87.666288555)
15	10000111	HY190019	03/18/201 05XX W	C	860	THEFT RETAIL TH GAS STATI	TRUE	FALSE	1531	15	37	25	6	1141741	1904839	2015	02/10/2018 15:50	41.894.945.606	-87.754.874.977	(41.894945606, -87.754874977)
16	10000112	HY189725	03/18/201 07XX S	K	610	BURGLAR FORCIBLE	FALSE	FALSE	421	4	7	43	5	1194335	1854110	2015	02/10/2018 15:50	41.754.602.618	-87.562.656.741	(41.754602618, -87.562656741)
17	10000113	HY190021	03/18/201 02XX W	P	910	MOTOR VEHIC(OTHER)	FALSE	FALSE	1423	14	1	24	7	1159599	1910569	2015	02/10/2018 15:50	41.910.312.648	-87.687.806.494	(41.910312648, -87.687806494)
18	10000115	HY190073	03/18/201 08XX S	L	890	THEFT FROM BUI GROCERY	FALSE	FALSE	794	7	17	67	6	1168192	1858832	2015	02/10/2018 15:50	41.768.167.414	-87.659.053.791	(41.768167414, -87.659053791)
19	10000116	HY190063	03/18/201 10XX S	U	470	PUBLIC PE RECKLESS ALLEY	TRUE	FALSE	512	5	34	49	24	1177790	1835106	2015	02/10/2018 15:50	41.700.284.845	-87.624.588.931	(41.700284845, -87.624588931)
20	10000117	HY190068	03/18/201 08XX S	K	890	THEFT FROM BUI BAR OR TR	FALSE	FALSE	412	4	8	48	6	1186312	1847473	2015	02/10/2018 15:50	41.736.588.206	-87.599.299.436	(41.736588206, -87.599299436)
21	10000118	HY190031	03/18/201 09XX S	S	860	THEFT RETAIL TH GROCERY	TRUE	FALSE	411	4	5	43	6	1188123	1855151	2015	02/10/2018 15:50	41.757.614.433	-87.586.115.266	(41.757614433, -87.586115266)
22	10000120	HY190072	03/18/201 05XX W	K	320	ROBBERY STRONGA OTHER	FALSE	FALSE	2023	20	48	77	3	1168270	1936260	2015	02/10/2018 15:50	41.980.634.157	-87.656.525.996	(41.980634157, -87.656525996)
23	10000121	HY190073	03/18/201 07XX S	C	430	BATTERY AGGRAVATED	FALSE	FALSE	414	4	8	43	04B	1189564	1853354	2015	02/10/2018 15:50	41.752.648.838	-87.580.891.872	(41.752648838, -87.580891872)
24	10000122	HY189969	03/18/201 00XX N	C	141A	WEAPON UNLAWFUL VEHICLE N	TRUE	FALSE	1513	15	29	25	15	1139051	1899715	2015	02/10/2018 15:50	41.880.934.043	-87.764.879.438	(41.880934043, -87.764879438)
25	10000124	HY190060	03/18/201 02XX S	B	486	BATTERY DOMESTIC	TRUE	TRUE	1034	10	25	31	08B	1161687	1887883	2015	02/10/2018 15:50	41.848.024.395	-87.682.090.877	(41.848024395, -87.682090877)
26	10000126	HY190035	03/18/201 08XX S	E	486	BATTERY DOMESTIC	TRUE	TRUE	232	2	20	40	08B	1179208	1865959	2015	02/10/2018 15:50	41.787.485.544	-87.618.458.018	(41.787485544, -87.618458018)
27	10000127	HY190027	03/18/201 09XX S	R	560	ASSAULT SIMPLE	FALSE	FALSE	2222	22	21	73	08A	1169928	1844242	2015	02/10/2018 15:50	41.722.809.296	-87.653.113.317	(41.722809296, -87.653113317)
28	10000129	HY190096	03/19/201 07XX S	E	460	BATTERY SIMPLE	FALSE	FALSE	621	6	17	71	08B	1172661	1852870	2015	02/10/2018 15:50	41.751.709.641	-87.647.848.244	(41.751709641, -87.647848244)
29	10000130	HY190003	03/18/201 08XX S	C	041A	BATTERY AGGRAVATED	FALSE	FALSE	613	6	21	71	04B	1170826	1847542	2015	02/10/2018 15:50	41.737.129.104	-87.649.727.762	(41.737129104, -87.649727762)
30	10000131	HY190101	03/19/201 02XX S	E	1350	CRIMINAL TO STATE PARKING	TRUE	FALSE	434	4	10	51	26	1192874	1837123	2015	02/10/2018 15:50	41.708.029.389	-87.589.290.282	(41.708029389, -87.589290282)
31	10000133	HY190005	03/19/201 05XX S	V	312	ROBBERY ARMED-HSIDEWALK	FALSE	FALSE	924	9	16	63	3	1161340	1866644	2015	02/10/2018 15:50	41.789.745.112	-87.683.924.139	(41.789745112, -87.683924139)
32	10000134	HY190091	03/19/201 04XX W	E	1305	CRIMINAL CRIMINAL FACTORY	TRUE	FALSE	1731	17	31	16	14	1146335	1920959	2015	02/10/2018 15:50	41.939.055.884	-87.730.240.399	(41.939055884, -87.730240399)
33	10000135	HY190087	03/19/201 11XX S	H	320	ROBBERY STRONGA CTA BUS S	FALSE	FALSE	524	5	34	53	3	1173139	1825780	2015	02/10/2018 15:50	41.677.736.022	-87.641.893.815	(41.677736022, -87.641893815)
34	10000137	HY190051	03/19/201 06XX S	E	1310	CRIMINAL TO PROPE	TRUE	FALSE	312	3	20	42	14	1182328	1862419	2015	02/10/2018 15:50	41.777.694.703	-87.607.128.049	(41.777694703, -87.607128049)
35	10000138	HY190094	03/19/201 02XX S	P	420	BATTERY AGGRAVATED	FALSE	FALSE	914	9	25	34	04B	1174557	1898982	2015	02/10/2018 15:50	41.852.683.454	-87.634.804.012	(41.852683454, -87.634804012)
36	10000139	HY190098	03/19/201 03XX W	C	1811	NARCOTIC POSS: CAP STREET	TRUE	FALSE	1024	10	22	30	18	1153173	1899153	2015	02/10/2018 15:50	41.885.168.235	-87.713.304.129	(41.885168235, -87.713304129)

2. Langkah selanjutnya pilih tab Data kemudian pilih From Text/CSV



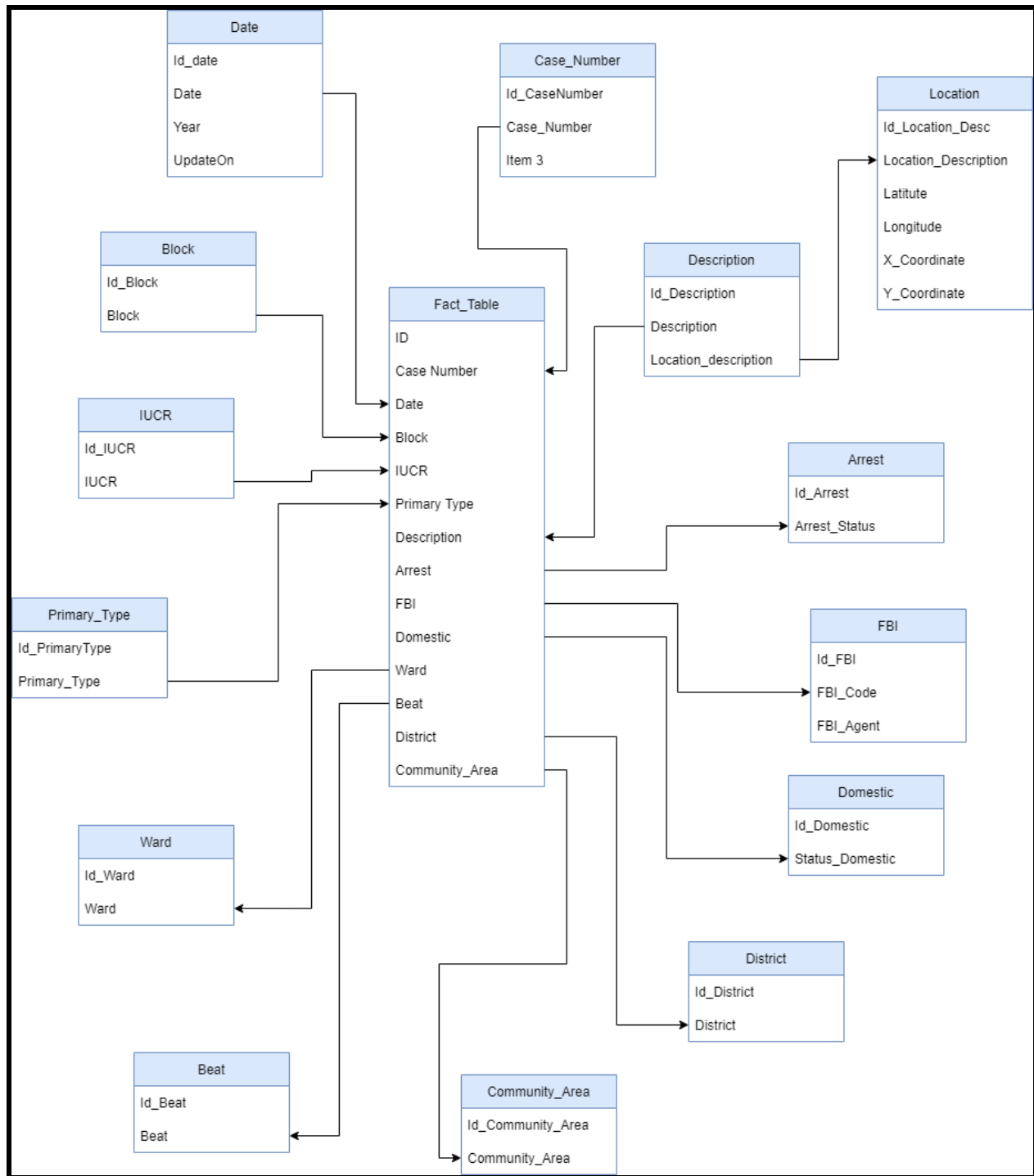
3. Kemudian pilih file excel Crimes_2001_to_Present1 untuk di import kedalam excel



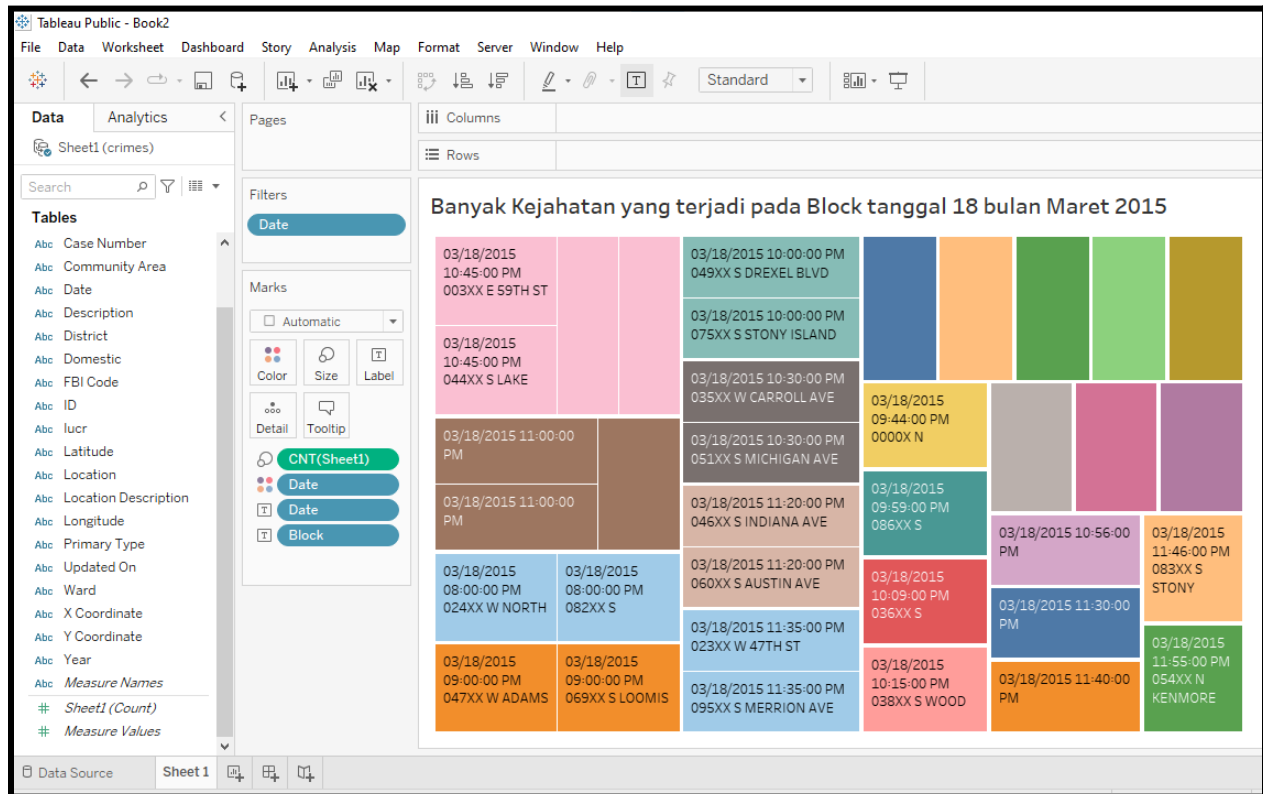
4. Maka akan terbentuk tabelnya

ID	Case Number	Date	Block	ILUCR	Primary Type	Description	Location Description
10000092	HY189866	03/18/2015 07:44:00 PM	047XX W OHIO ST	041A	BATTERY	AGGRAVATED: HANDGUN	STREET
10000094	HY190059	03/18/2015 11:00:00 PM	060XX S MARSHFIELD AVE	4625	OTHER OFFENSE	PAROLE VIOLATION	STREET
10000095	HY190052	03/18/2015 10:45:00 PM	040XX S LAKE PARK AVE	486	BATTERY	DOMESTIC BATTERY SIMPLE	APARTMENT
10000096	HY190054	03/18/2015 10:30:00 PM	051XX S MICHIGAN AVE	460	BATTERY	SIMPLE	APARTMENT
10000097	HY189976	03/18/2015 09:00:00 PM	047XX W ADAMS ST	031A	ROBBERY	ARMED: HANDGUN	SIDEWALK
10000098	HY190032	03/18/2015 10:00:00 PM	049XX S DREXEL BLVD	460	BATTERY	SIMPLE	APARTMENT
10000099	HY190047	03/18/2015 11:00:00 PM	070XX S MORGAN ST	486	BATTERY	DOMESTIC BATTERY SIMPLE	APARTMENT
10000100	HY189988	03/18/2015 09:35:00 PM	042XX S PRAIRIE AVE	486	BATTERY	DOMESTIC BATTERY SIMPLE	APARTMENT
10000101	HY190020	03/18/2015 10:09:00 PM	036XX S WOLCOTT AVE	1811	NARCOTICS	POSS: CANNABIS 30GMS OR LESS	STREET
10000104	HY189964	03/18/2015 09:25:00 PM	097XX S PRAIRIE AVE	460	BATTERY	SIMPLE	RESIDENCE PORCH/HALLWAY
10000105	HY189984	03/18/2015 09:30:00 PM	130XX S DR MARTIN LUTHER KING JR DR	1320	CRIMINAL DAMAGE	TO VEHICLE	PARKING LOT/GARAGE(NON)
10000108	HY189719	03/15/2015 04:10:00 PM	078XX S VINCENNES AVE	2825	OTHER OFFENSE	HARASSMENT BY TELEPHONE	CTA GARAGE / OTHER PROP
10000109	HY189966	03/18/2015 09:14:00 PM	086XX S EXCHANGE AVE	143A	WEAPONS VIOLATION	UNLAWFUL POSS OF HANDGUN	DRIVEWAY - RESIDENTIAL
10000110	HY190056	03/18/2015 10:50:00 PM	014XX S ASHLAND AVE	460	BATTERY	SIMPLE	SIDEWALK
10000111	HY190019	03/18/2015 10:31:00 PM	051XX W CHICAGO AVE	860	THEFT	RETAIL THEFT	GAS STATION
10000112	HY189725	03/18/2015 12:55:00 PM	077XX S KINGSTON AVE	610	BURGLARY	FORCIBLE ENTRY	APARTMENT
10000114	HY190071	03/18/2015 09:00:00 PM	029XX W NORTH AVE	910	MOTOR VEHICLE THEFT	AUTOMOBILE	OTHER
10000115	HY190036	03/18/2015 08:00:00 PM	064XX S LOOMIS BLVD	890	THEFT	FROM BUILDING	GROCERY FOOD STORE
10000116	HY190063	03/18/2015 10:56:00 PM	105XX S LAFAYETTE AVE	470	PUBLIC PEACE VIOLATION	RECKLESS CONDUCT	ALLEY
10000117	HY190068	03/18/2015 10:45:00 PM	087XX S KIMBARK AVE	890	THEFT	FROM BUILDING	BAR OR TAVERN
10000118	HY190031	03/18/2015 10:00:00 PM	075XX S STONY ISLAND AVE	860	THEFT	RETAIL THEFT	GROCERY FOOD STORE
10581023	H2329752	09/01/2014 08:00	000XX E LAKE ST	1140	DECEPTIVE PRACTICE	EMBEZZLEMENT	OTHER
10000119	HY190072	03/18/2015 11:55:00 PM	054XX N KENMORE AVE	320	ROBBERY	STRONGARM - NO WEAPON	OTHER
10000120	HY190073	03/18/2015 11:40:00 PM	078XX S CREGIER AVE	430	BATTERY	AGGRAVATED: OTHER DANG WEAPON	APARTMENT
10000123	HY189969	03/18/2015 09:44:00 PM	000XX N CENTRAL AVE	141A	WEAPONS VIOLATION	UNLAWFUL USE HANDGUN	VEHICLE NON-COMMERCIAL
10000124	HY190060	03/18/2015 11:30:00 PM	024XX S BELL AVE	486	BATTERY	DOMESTIC BATTERY SIMPLE	APARTMENT
10000126	HY190035	03/18/2015 10:45:00 PM	003XX E 59TH ST	486	BATTERY	DOMESTIC BATTERY SIMPLE	APARTMENT
10000127	HY190027	03/18/2015 10:33:00 PM	091XX S RACINE AVE	560	ASSAULT	SIMPLE	RESIDENCE
10000129	HY190096	03/19/2015 01:20:00 AM	078XX S EMERALD AVE	460	BATTERY	SIMPLE	APARTMENT
10000130	HY190003	03/18/2015 09:59:00 PM	086XX S CARPENTER ST	041A	BATTERY	AGGRAVATED: HANDGUN	RESIDENCE PORCH/HALLWAY
10000131	HY190101	03/19/2015 01:28:00 AM	022XX E 103RD ST	1350	CRIMINAL TRESPASS	TO STATE SUP LAND	PARKING LOT/GARAGE(NON)
10000133	HY190085	03/19/2015 12:05:00 AM	057XX S WESTERN AVE	312	ROBBERY	ARMED: KNIFE/CUTTING INSTRUMENT	SIDEWALK
10000134	HY190091	03/19/2015 12:35:00 AM	041XX W BELMONT AVE	1305	CRIMINAL DAMAGE	CRIMINAL DEFAACEMENT	FACTORY/MANUFACTURING
10000135	HY190087	03/19/2015 12:30:00 AM	119XX S HALSTED ST	320	ROBBERY	STRONGARM - NO WEAPON	CTA BUS STOP
10000137	HY190051	03/18/2015 10:45:00 PM	064XX S EVANS AVE	1310	CRIMINAL DAMAGE	TO PROPERTY	APARTMENT
10000138	HY190094	03/19/2015 12:50:00 AM	022XX S PRINCETON AVE	420	BATTERY	AGGRAVATED: KNIFE/CUTTING INSTR	SIDEWALK
10000139	HY190098	03/19/2015 01:15:00 AM	035XX W CERMAK RD	1811	NARCOTICS	POSS: CANNABIS 30GMS OR LESS	STREET

5. Skema data warehouse



6. Visualisasi



Analisa : Informasi

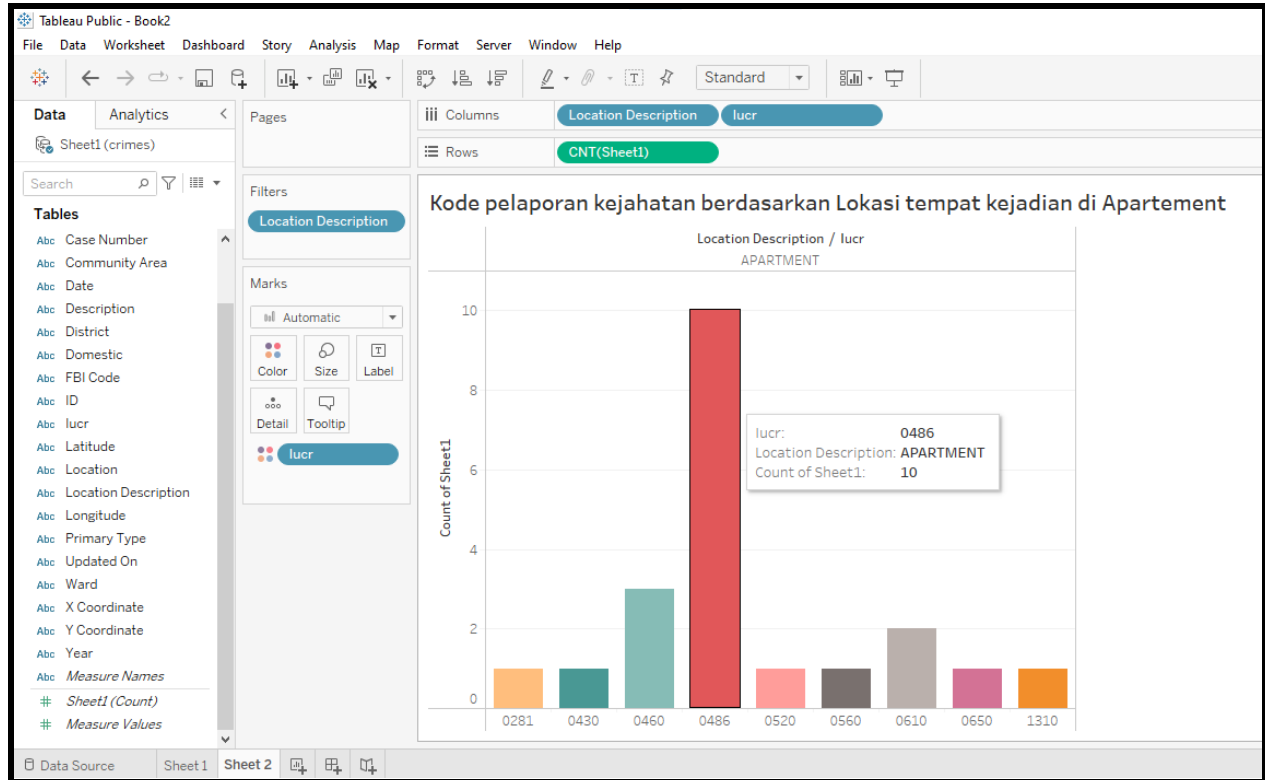
Terjadi kejahatan pada tanggal 18 maret 2015 pada malam hari.
Mengetahui alamat yang sebenarnya dengan blok yang disunting.

Pengetahuan / knowledge

Pada tanggal 18 bulan maret 2015 banyak terjadi 36 kejahatan pada malam hari sesuai dengan Block yang disunting sesuai dengan alamat yang sebenarnya.

Keputusan

Selalu berhati-hati jika keluar dimalam hari.



Analisa :

Informasi

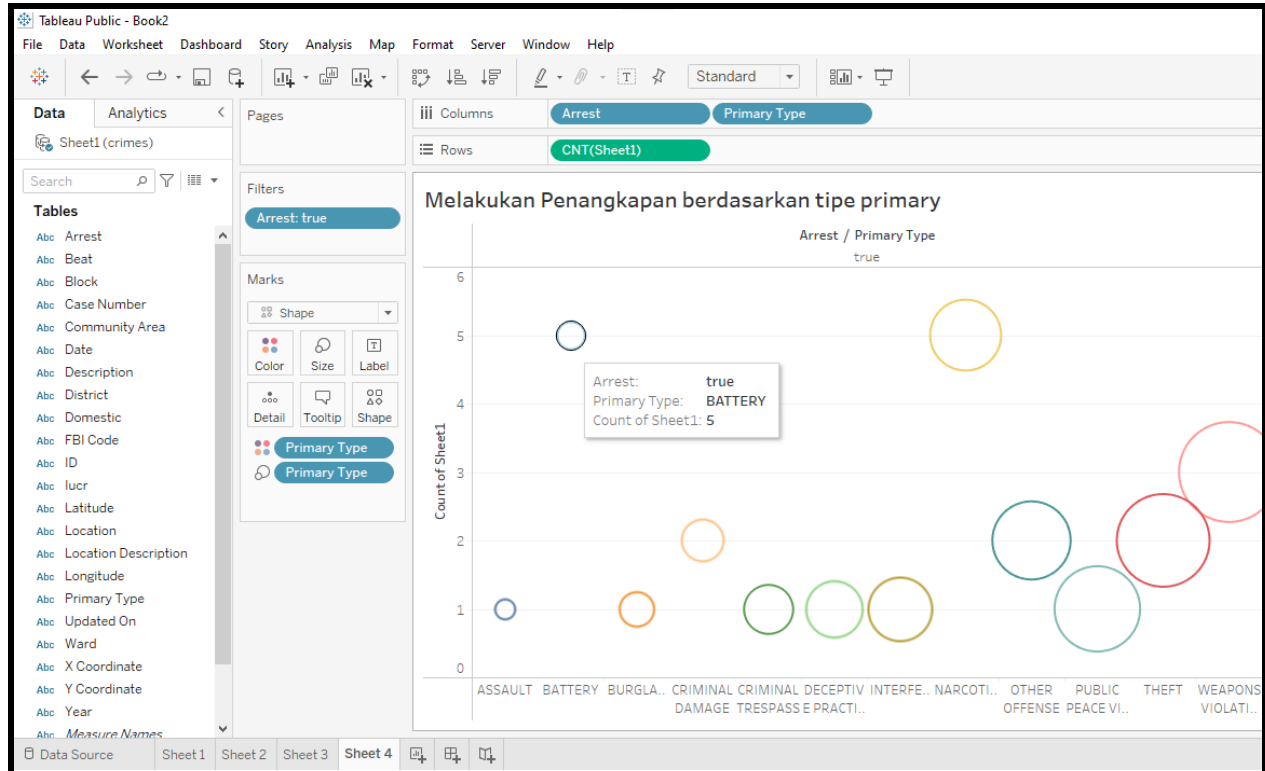
Terjadi kejahatan berdasarkan IUCR.

Pengetahuan / knowledge

Top 9 Terjadi banyak kejahatan dari lokasi kejadian di apartement berdasarkan IUCR/ kode pelaporan.

Keputusan

Di apartemen juga selalu jaga jaga dan meningkatkan keamanan apartemen dan tidak membiarkan sembarangan membuka pintu.



Analisa :

Informasi

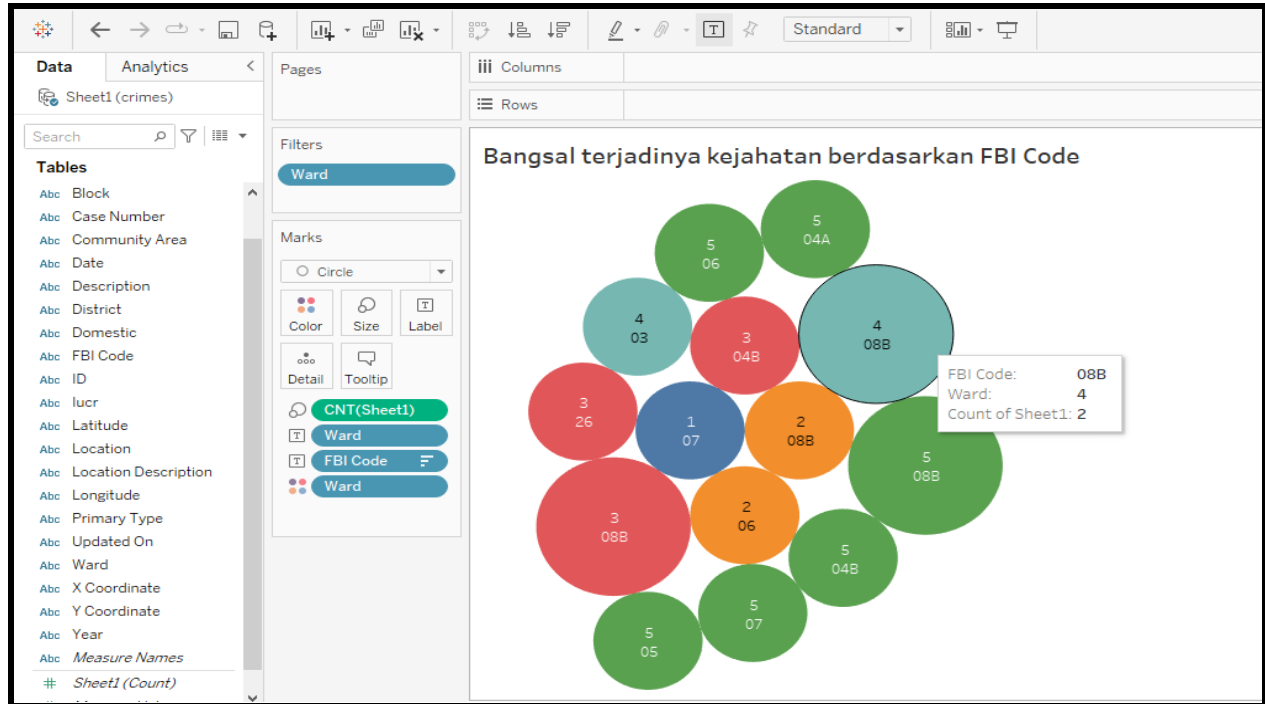
Melakukan penangkapan.

Pengetahuan / knowledge

Melakukan penangkapan berdasarkan primary type dimana narcotics dan battery yang paling banyak terjadi penangkapan.

Keputusan

Harus adanya penangkapan dan diselidiki lebih dalam atas segala kejahatan .



Analisa :

Informasi

Memiliki bagian bangsal berdasarkan lokasi

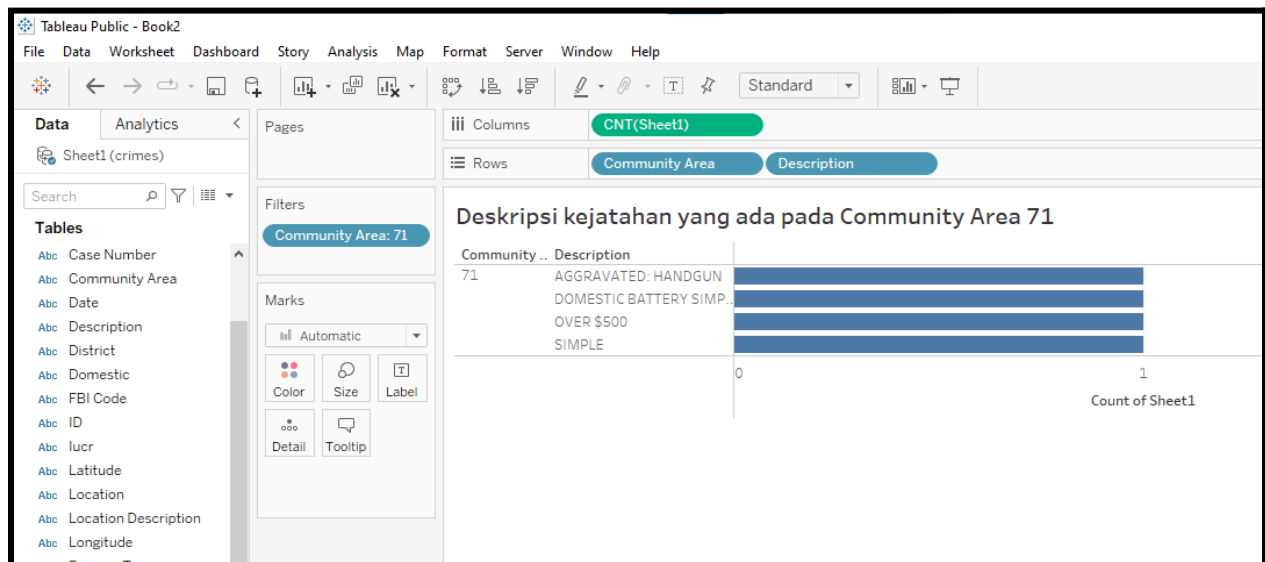
Memiliki kode FBI

Pengetahuan / knowledge

Setiap bangsal memiliki kode bagian masing-masing dan pada ward, atau bangsal 4 memiliki 2 bangsal yang dikelola oleh kode FBI 08B

Keputusan

Harus ada kode masing-masing untuk memahami dalam menandai daerah mana yang terjadinya kejahatan sehingga bisa dengan sigap di proses.



Analisa :

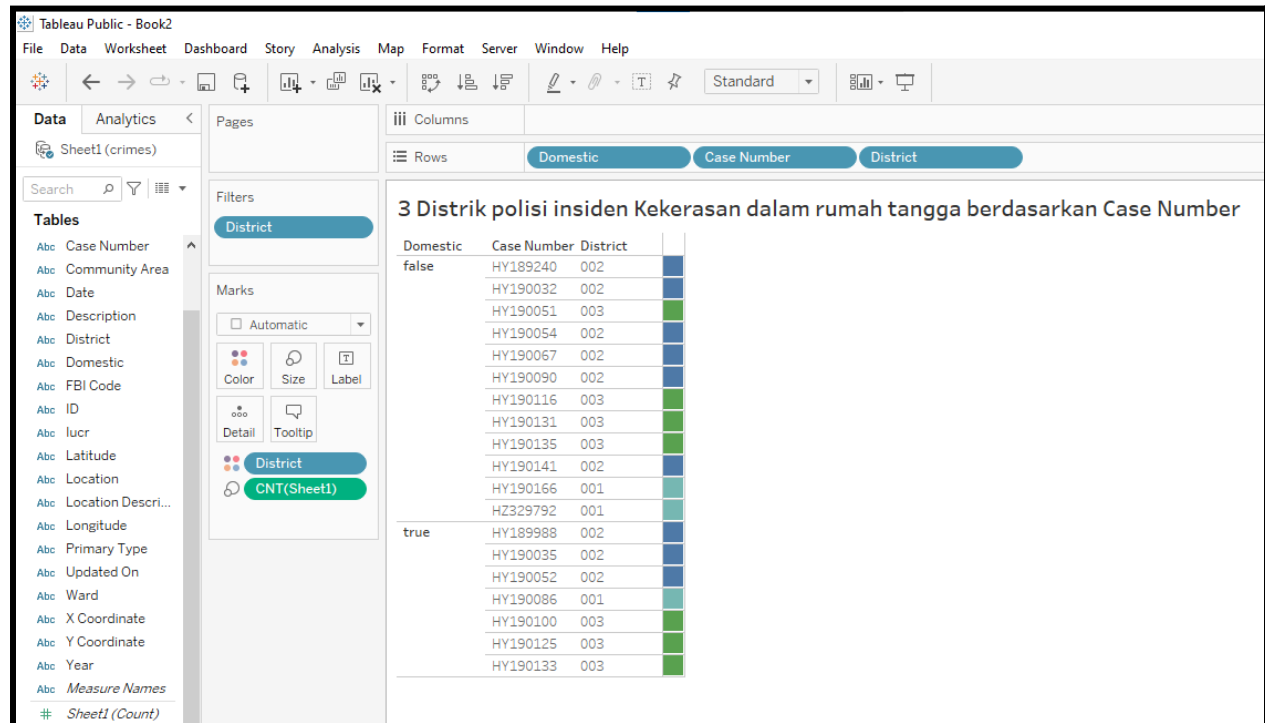
Informasi

Memiliki community area.

Memiliki deskripsi kode kejahatan.

Pengetahuan / knowledge

Pada setiap community area harus diwaspadai bahwa itu merupakan peringatan terjadinya banyak kejahatan.



Analisa :

Informasi

Menampilkan 3 distrik

Memiliki nomor case kejahatan.

Pengetahuan / knowledge

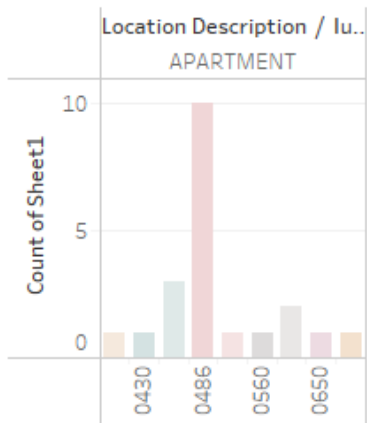
Menampilkan kejahatan yang berdasarkan dalam kekerasan rumah tangga dan juga tidak yang dibedakan dalam 3 distrik berdasarkan case number.

Keputusan

Meminimalisir kejadian kekerasan dan kejahatan dalam rumah tangga bisa dilakukan penyuluhan dan menyelesaikan masalah dengan baik-baik.

7. Dashboard

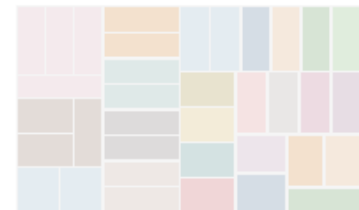
Kode pelaporan kejahatan berdasarkan Lokasi tempat kejadian di Apartemen



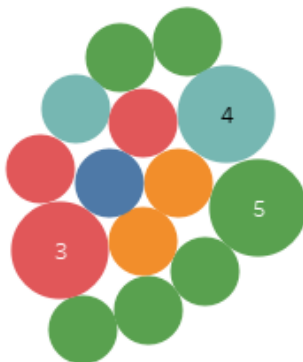
Deskripsi kejahatan yang ada pada Community Area 71

Community..	Description
71	AGGRAVAT..
	DOMESTIC..
	OVER \$500
	SIMPLE

Banyak Kejahatan yang terjadi pada Block tanggal 18 bulan Maret 2015



Bangsai terjadinya kejahatan berdasarkan FBI Code



3 Distrik polisi insiden Kekerasan dalam rumah tangga berdasarkan Case Number

Case Number	District
HY189240	002
HY190032	002
HY190051	003
HY190054	002
HY190067	002
HY190090	002
HY190116	003
HY190131	003
HY190135	003
HY190141	002

Melakukan Penangkapan berdasarkan tipe primary

