

mcpp_taller7_Laura_Becerra

October 14, 2016

1 Taller 7

Métodos Computacionales para Políticas Públicas - UROSARIO

Entrega: viernes 14-oct-2016 11:59 PM

[Laura Becerra] [l.becerra52@uniandes.edu.co]

1.1 Instrucciones:

- Guarde una copia de este *Jupyter Notebook* en su computador, idealmente en una carpeta destinada al material del curso.
- Modifique el nombre del archivo del *notebook*, agregando al final un guión inferior y su nombre y apellido, separados estos últimos por otro guión inferior. Por ejemplo, mi *notebook* se llamaría: mcpp_taller7_santiago_mataallana
- Marque el *notebook* con su nombre y e-mail en el bloque verde arriba. Reemplace el texto “[Su nombre acá]” con su nombre y apellido. Similar para su e-mail.
- Desarrolle la totalidad del taller sobre este *notebook*, insertando las celdas que sea necesario debajo de cada pregunta. Haga buen uso de las celdas para código y de las celdas tipo *markdown* según el caso.
- Recuerde salvar periódicamente sus avances.
- Cuando termine el taller:
 1. Descárguelo en PDF. Si tiene algún problema con la conversión, descárguelo en HTML.
 2. Suba todos los archivos a su repositorio en GitHub, en una carpeta destinada exclusivamente para este taller, antes de la fecha y hora límites.

(Todos los ejercicios tienen el mismo valor.)

Este taller tiene dos partes. Una obligatoria, relativamente fácil, y otra voluntaria y más retadora. Los invito a intentar desarrollar el taller en su totalidad.

En este taller exploraremos los datos de crimen de Chicago.

Descargue los datos de crimen del Chicago Data Portal solo para el año 2015 (<https://data.cityofchicago.org/Public-Safety/Crimes-2001-to-present/ijzp-q8t2>).

1.1.1 Parte obligatoria

1.1.2 1.

Calcule el número de crímenes en cada Community Area en 2015. Haga un gráfico de barras que lo ilustre.

```
In [1]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
%matplotlib inline
plt.rcParams["figure.figsize"] = [18.0, 10.0]
plt.style.use('ggplot')
```

```
In [4]: crimes = pd.read_csv('Downloads/Crimes_-_2001_to_present.csv', low_memory=False)
```

```
In [5]: crimes
```

```
Out[5]:
```

	ID	Case Number	Date	\
0	10514462	HZ256372	01/01/2015 12:00:00	AM
1	10515175	HZ257172	11/24/2015 05:30:00	PM
2	10077106	HY266148	05/19/2015 01:12:00	AM
3	10111002	HY299741	06/13/2015 04:45:00	PM
4	10301916	HY469211	01/01/2015 12:00:00	AM
5	10160687	HY313819	06/24/2015 06:00:00	AM
6	10181647	HY215976	04/09/2015 04:30:51	PM
7	10192026	HY360910	07/29/2015 04:21:21	PM
8	10203133	HY381916	08/14/2015 10:55:00	AM
9	10211492	HY257237	05/12/2015 11:54:19	AM
10	10211589	HY340025	07/14/2015 06:00:00	AM
11	10211597	HY334821	07/10/2015 06:00:00	AM
12	10211611	HY333584	07/09/2015 06:00:00	AM
13	10211617	HY333517	07/09/2015 06:00:00	AM
14	10211621	HY369125	08/04/2015 05:24:00	PM
15	10211623	HY331028	07/07/2015 06:00:00	AM
16	10211630	HY323307	07/01/2015 06:00:00	AM
17	10212757	HY369072	08/04/2015 04:51:00	PM
18	10212800	HY368655	08/04/2015 11:53:00	AM
19	10213138	HY371827	08/06/2015 04:58:08	PM
20	10213157	HY371446	08/06/2015 12:18:43	PM
21	10213250	HY371306	08/06/2015 11:42:00	AM
22	10214240	HY370160	08/05/2015 02:00:00	PM
23	10214258	HY370494	08/05/2015 05:05:00	PM
24	10214280	HY370501	08/05/2015 05:22:00	PM
25	10214340	HY373225	08/07/2015 05:53:42	PM
26	10217851	HY381066	08/13/2015 01:59:54	PM
27	10217898	HY381838	08/14/2015 07:52:55	AM
28	10218176	HY381348	08/13/2015 07:33:00	PM
29	10218922	HY234127	04/24/2015 11:50:00	AM

...
262121	10700720	HZ455790	09/20/2015 09:00:00 AM
262122	10701400	HZ456880	12/08/2015 08:30:00 AM
262123	10265465	HY452798	10/03/2015 11:00:00 AM
262124	10702262	HZ458005	05/08/2015 09:00:00 AM
262125	10702799	HZ458536	12/01/2015 12:00:00 PM
262126	10118312	HY306929	06/18/2015 09:28:00 PM
262127	10703491	HZ459359	06/26/2015 09:00:00 AM
262128	10703279	HZ459188	10/15/2015 05:00:00 PM
262129	10703400	HZ459367	05/01/2015 12:00:00 AM
262130	10703798	HZ459717	11/09/2015 06:00:00 PM
262131	10703895	HZ458274	10/01/2015 09:00:00 AM
262132	10704308	HZ460398	04/29/2015 10:00:00 AM
262133	10049897	HY196971	03/24/2015 04:50:00 PM
262134	10310276	HY498927	11/12/2015 02:06:00 PM
262135	9942792	HY131177	01/27/2015 08:28:00 PM
262136	10704703	HZ460821	08/01/2015 09:00:00 AM
262137	10704724	HZ460889	01/15/2015 12:00:00 PM
262138	10704909	HZ460850	10/29/2015 01:00:00 PM
262139	10209156	HY396362	08/25/2015 12:57:00 AM
262140	10703722	HZ454893	01/01/2015 12:00:00 AM
262141	10705957	HZ462316	05/15/2015 02:00:00 PM
262142	10706168	HZ462589	03/01/2015 12:01:00 AM
262143	10210083	HY390628	08/20/2015 04:55:39 PM
262144	10706895	HZ463412	12/10/2015 01:00:00 PM
262145	10044601	HY233389	04/23/2015 03:00:00 PM
262146	10708451	HZ463432	01/01/2015 12:01:00 AM
262147	10189568	HY377617	08/11/2015 05:00:00 AM
262148	10709174	HZ466379	01/01/2015 12:01:00 AM
262149	10709385	HZ466670	04/15/2015 09:00:00 AM
262150	22831	HR264876	01/29/2015 12:01:00 AM

	Block	IUCR	Primary Type \
0	073XX S EXCHANGE AVE	0281	CRIM SEXUAL ASSAULT
1	033XX W ADAMS ST	0820	THEFT
2	009XX W BELMONT AVE	0560	ASSAULT
3	015XX S HAMLIN AVE	143A	WEAPONS VIOLATION
4	062XX W BARRY AVE	0266	CRIM SEXUAL ASSAULT
5	052XX N MARMORA AVE	1811	NARCOTICS
6	061XX S CHAMPLAIN AVE	2024	NARCOTICS
7	029XX W FLOURNOY ST	2027	NARCOTICS
8	054XX W WALTON ST	1821	NARCOTICS
9	066XX S WASHTENAW AVE	1811	NARCOTICS
10	033XX W FILLMORE ST	1812	NARCOTICS
11	006XX W OHARE ST	2093	NARCOTICS
12	033XX W FILLMORE ST	1812	NARCOTICS
13	033XX W FILLMORE ST	1812	NARCOTICS
14	075XX S STONY ISLAND AVE	2017	NARCOTICS

15	033XX W FILLMORE ST	1812	NARCOTICS
16	033XX W FILLMORE ST	2031	NARCOTICS
17	007XX S KEDVALE AVE	2024	NARCOTICS
18	005XX N LAWLER AVE	2017	NARCOTICS
19	013XX S HOMAN AVE	1811	NARCOTICS
20	014XX W 66TH ST	1811	NARCOTICS
21	050XX W DIVISION ST	1821	NARCOTICS
22	013XX N HUDSON AVE	2014	NARCOTICS
23	015XX E 76TH ST	2017	NARCOTICS
24	0000X E 87TH ST	1822	NARCOTICS
25	012XX S FAIRFIELD AVE	2024	NARCOTICS
26	013XX N LOCKWOOD AVE	1811	NARCOTICS
27	035XX N PULASKI RD	2022	NARCOTICS
28	015XX E 76TH PL	2027	NARCOTICS
29	071XX S ASHLAND AVE	2024	NARCOTICS
...
262121	050XX S DR MARTIN LUTHER KING JR DR	1153	DECEPTIVE PRACTICE
262122	104XX S MICHIGAN AVE	1155	DECEPTIVE PRACTICE
262123	021XX E 93RD ST	0620	BURGLARY
262124	099XX S YALE AVE	1110	DECEPTIVE PRACTICE
262125	033XX S ASHLAND AVE	2826	OTHER OFFENSE
262126	053XX S JUSTINE ST	143A	WEAPONS VIOLATION
262127	003XX W BARRY AVE	1195	DECEPTIVE PRACTICE
262128	030XX S KOMENSKY AVE	1562	SEX OFFENSE
262129	017XX N MEADE AVE	1153	DECEPTIVE PRACTICE
262130	052XX W 55TH ST	1130	DECEPTIVE PRACTICE
262131	026XX E 77TH ST	0890	THEFT
262132	005XX W 60TH PL	1153	DECEPTIVE PRACTICE
262133	055XX W QUINCY ST	2014	NARCOTICS
262134	042XX W WASHINGTON BLVD	143A	WEAPONS VIOLATION
262135	025XX W FILLMORE ST	1153	DECEPTIVE PRACTICE
262136	013XX W SUNNYSIDE AVE	1153	DECEPTIVE PRACTICE
262137	122XX S EGGLESTON AVE	1153	DECEPTIVE PRACTICE
262138	014XX S MILLARD AVE	0820	THEFT
262139	033XX W OGDEN AVE	0810	THEFT
262140	0000X W 103RD PL	1562	SEX OFFENSE
262141	008XX W WELLINGTON AVE	1153	DECEPTIVE PRACTICE
262142	048XX N CHRISTIANA AVE	0266	CRIM SEXUAL ASSAULT
262143	044XX W MONROE ST	2024	NARCOTICS
262144	062XX S CLAREMONT AVE	1154	DECEPTIVE PRACTICE
262145	011XX S INDEPENDENCE BLVD	0265	CRIM SEXUAL ASSAULT
262146	057XX W PATTERSON AVE	1541	OBSCENITY
262147	065XX S ST LAWRENCE AVE	0650	BURGLARY
262148	042XX S MICHIGAN AVE	1153	DECEPTIVE PRACTICE
262149	012XX N CLYBOURN AVE	1153	DECEPTIVE PRACTICE
262150	023XX N MOODY AVE	0110	HOMICIDE

Description \

0	NON-AGGRAVATED
1	\$500 AND UNDER
2	SIMPLE
3	UNLAWFUL POSS OF HANDGUN
4	PREDATORY
5	POSS: CANNABIS 30GMS OR LESS
6	POSS: HEROIN(WHITE)
7	POSS: CRACK
8	MANU/DEL:CANNABIS 10GM OR LESS
9	POSS: CANNABIS 30GMS OR LESS
10	POSS: CANNABIS MORE THAN 30GMS
11	FOUND SUSPECT NARCOTICS
12	POSS: CANNABIS MORE THAN 30GMS
13	POSS: CANNABIS MORE THAN 30GMS
14	MANU/DELIVER:CRACK
15	POSS: CANNABIS MORE THAN 30GMS
16	POSS: METHAMPHETAMINES
17	POSS: HEROIN(WHITE)
18	MANU/DELIVER:CRACK
19	POSS: CANNABIS 30GMS OR LESS
20	POSS: CANNABIS 30GMS OR LESS
21	MANU/DEL:CANNABIS 10GM OR LESS
22	MANU/DELIVER: HEROIN (WHITE)
23	MANU/DELIVER:CRACK
24	MANU/DEL:CANNABIS OVER 10 GMS
25	POSS: HEROIN(WHITE)
26	POSS: CANNABIS 30GMS OR LESS
27	POSS: COCAINE
28	POSS: CRACK
29	POSS: HEROIN(WHITE)
...	...
262121	FINANCIAL IDENTITY THEFT OVER \$ 300
262122	AGGRAVATED FINANCIAL IDENTITY THEFT
262123	UNLAWFUL ENTRY
262124	BOGUS CHECK
262125	HARASSMENT BY ELECTRONIC MEANS
262126	UNLAWFUL POSS OF HANDGUN
262127	FINAN EXPLOIT-ELDERLY/DISABLED
262128	AGG CRIMINAL SEXUAL ABUSE
262129	FINANCIAL IDENTITY THEFT OVER \$ 300
262130	FRAUD OR CONFIDENCE GAME
262131	FROM BUILDING
262132	FINANCIAL IDENTITY THEFT OVER \$ 300
262133	MANU/DELIVER: HEROIN (WHITE)
262134	UNLAWFUL POSS OF HANDGUN
262135	FINANCIAL IDENTITY THEFT OVER \$ 300
262136	FINANCIAL IDENTITY THEFT OVER \$ 300
262137	FINANCIAL IDENTITY THEFT OVER \$ 300

262138	\$500 AND UNDER
262139	OVER \$500
262140	AGG CRIMINAL SEXUAL ABUSE
262141	FINANCIAL IDENTITY THEFT OVER \$ 300
262142	PREDATORY
262143	POSS: HEROIN(WHITE)
262144	FINANCIAL IDENTITY THEFT \$300 AND UNDER
262145	AGGRAVATED: OTHER
262146	SALE/DIST OBSCENE MAT TO MINOR
262147	HOME INVASION
262148	FINANCIAL IDENTITY THEFT OVER \$ 300
262149	FINANCIAL IDENTITY THEFT OVER \$ 300
262150	FIRST DEGREE MURDER

	Location Description	Arrest	Domestic	\
0	NURSING HOME/RETIREMENT HOME	False	False	
1	RESIDENCE	False	False	
2	APARTMENT	True	False	
3	ALLEY	False	False	
4	RESIDENCE	True	True	
5	RESIDENCE	True	False	
6	RESIDENCE	True	False	
7	APARTMENT	True	False	
8	VEHICLE NON-COMMERCIAL	True	False	
9	RESIDENCE	True	False	
10	POLICE FACILITY/VEH PARKING LOT	True	False	
11	GOVERNMENT BUILDING/PROPERTY	True	False	
12	POLICE FACILITY/VEH PARKING LOT	True	False	
13	POLICE FACILITY/VEH PARKING LOT	True	False	
14	VEHICLE NON-COMMERCIAL	True	False	
15	POLICE FACILITY/VEH PARKING LOT	True	False	
16	POLICE FACILITY/VEH PARKING LOT	True	False	
17	APARTMENT	True	False	
18	VEHICLE NON-COMMERCIAL	True	False	
19	APARTMENT	True	False	
20	APARTMENT	True	False	
21	SIDEWALK	True	False	
22	SIDEWALK	True	False	
23	VEHICLE NON-COMMERCIAL	True	False	
24	PARKING LOT/GARAGE (NON.RESID.)	True	False	
25	APARTMENT	True	False	
26	APARTMENT	True	False	
27	RESIDENCE	True	False	
28	RESIDENCE	True	False	
29	STREET	True	False	
...	
262121	APARTMENT	False	False	
262122	RESIDENCE	False	False	

262123	RESIDENCE	True	False
262124	RESIDENCE	False	False
262125	RESIDENCE	False	True
262126	STREET	True	False
262127	APARTMENT	False	False
262128	RESIDENCE	False	False
262129	APARTMENT	False	False
262130	RESIDENCE-GARAGE	False	False
262131	ABANDONED BUILDING	False	False
262132	RESIDENCE	False	False
262133	SIDEWALK	True	False
262134	STREET	True	False
262135	APARTMENT	False	False
262136	APARTMENT	False	False
262137	RESIDENCE	False	False
262138	STREET	False	False
262139	STREET	True	False
262140	RESIDENCE	False	False
262141	HOSPITAL BUILDING/GROUNDS	False	False
262142	RESIDENCE	False	True
262143	APARTMENT	True	False
262144	STREET	False	False
262145	ABANDONED BUILDING	True	False
262146	RESIDENCE	False	False
262147	RESIDENCE	True	False
262148	RESIDENCE	False	False
262149	RESIDENCE	False	False
262150	STREET	False	False

	...	Ward	Community Area	FBI Code	\
0	...	7	43	02	
1	...	28	27	06	
2	...	44	6	08A	
3	...	24	29	15	
4	...	36	19	02	
5	...	45	11	18	
6	...	20	42	18	
7	...	2	27	18	
8	...	37	25	18	
9	...	15	66	18	
10	...	24	29	18	
11	...	41	76	18	
12	...	24	29	18	
13	...	24	29	18	
14	...	5	43	18	
15	...	24	29	18	
16	...	24	29	18	
17	...	24	26	18	

18	...	28	25	18
19	...	24	29	18
20	...	17	67	18
21	...	37	25	18
22	...	27	8	18
23	...	5	43	18
24	...	6	44	18
25	...	28	29	18
26	...	37	25	18
27	...	30	16	18
28	...	5	43	18
29	...	17	67	18
...
262121	...	3	38	11
262122	...	9	49	11
262123	...	7	48	05
262124	...	9	49	11
262125	...	11	59	26
262126	...	16	61	15
262127	...	44	6	11
262128	...	22	30	17
262129	...	29	25	11
262130	...	23	56	11
262131	...	7	43	06
262132	...	20	68	11
262133	...	29	25	18
262134	...	28	26	15
262135	...	28	28	11
262136	...	46	3	11
262137	...	34	53	11
262138	...	24	29	06
262139	...	24	29	06
262140	...	34	49	17
262141	...	44	6	11
262142	...	39	14	02
262143	...	28	26	18
262144	...	15	66	11
262145	...	24	29	02
262146	...	38	15	17
262147	...	20	42	05
262148	...	3	38	11
262149	...	27	8	11
262150	...	29	19	01A

	X Coordinate	Y Coordinate	Year	Updated On	Latitude
0	NaN	NaN	2015	05/10/2016 03:56:50 PM	NaN
1	NaN	NaN	2015	05/10/2016 03:56:50 PM	NaN
2	1169640.0	1921442.0	2015	05/11/2016 03:48:18 PM	41.939943

3	1151295.0	1892216.0	2015	05/11/2016	03:48:18	PM	41.860125
4	1134262.0	1919947.0	2015	05/11/2016	03:48:18	PM	41.936539
5	1135867.0	1934466.0	2015	05/12/2016	03:48:29	PM	41.976352
6	1181623.0	1864501.0	2015	05/12/2016	03:48:29	PM	41.783424
7	1156974.0	1896894.0	2015	05/12/2016	03:48:29	PM	41.872848
8	1139924.0	1905802.0	2015	05/12/2016	03:48:29	PM	41.897622
9	1159517.0	1860604.0	2015	05/12/2016	03:48:29	PM	41.773212
10	1154228.0	1895173.0	2015	05/12/2016	03:48:29	PM	41.868181
11	1100088.0	1926079.0	2015	05/12/2016	03:48:29	PM	41.953900
12	1154228.0	1895173.0	2015	05/12/2016	03:48:29	PM	41.868181
13	1154228.0	1895173.0	2015	05/12/2016	03:48:29	PM	41.868181
14	1188123.0	1855151.0	2015	05/12/2016	03:48:29	PM	41.757614
15	1154228.0	1895173.0	2015	05/12/2016	03:48:29	PM	41.868181
16	1154228.0	1895173.0	2015	05/12/2016	03:48:29	PM	41.868181
17	1148838.0	1896308.0	2015	05/12/2016	03:48:29	PM	41.871401
18	1142599.0	1903190.0	2015	05/12/2016	03:48:29	PM	41.890405
19	1153916.0	1893520.0	2015	05/12/2016	03:48:29	PM	41.863651
20	1167978.0	1860982.0	2015	05/12/2016	03:48:29	PM	41.774072
21	1142681.0	1907524.0	2015	05/12/2016	03:48:29	PM	41.902296
22	1173067.0	1909543.0	2015	05/12/2016	03:48:29	PM	41.907216
23	1187947.0	1854903.0	2015	05/12/2016	03:48:29	PM	41.756938
24	1178069.0	1847315.0	2015	05/12/2016	03:48:29	PM	41.736345
25	1158231.0	1894123.0	2015	05/12/2016	03:48:29	PM	41.865219
26	1140785.0	1908250.0	2015	05/12/2016	03:48:29	PM	41.904323
27	1149094.0	1923450.0	2015	05/12/2016	03:48:29	PM	41.945877
28	1187741.0	1854562.0	2015	05/12/2016	03:48:29	PM	41.756007
29	1166924.0	1857157.0	2015	05/12/2016	03:48:29	PM	41.763598
...
262121	NaN	NaN	2015	10/02/2016	03:47:43	PM	NaN
262122	NaN	NaN	2015	10/02/2016	03:49:39	PM	NaN
262123	1191882.0	1843718.0	2015	10/03/2016	03:54:00	PM	41.726151
262124	NaN	NaN	2015	10/03/2016	03:57:52	PM	NaN
262125	NaN	NaN	2015	10/03/2016	03:57:52	PM	NaN
262126	1166911.0	1869320.0	2015	10/04/2016	03:50:48	PM	41.796975
262127	NaN	NaN	2015	10/04/2016	03:52:50	PM	NaN
262128	NaN	NaN	2015	10/04/2016	03:52:50	PM	NaN
262129	NaN	NaN	2015	10/04/2016	03:52:50	PM	NaN
262130	NaN	NaN	2015	10/04/2016	03:52:50	PM	NaN
262131	NaN	NaN	2015	10/04/2016	03:52:50	PM	NaN
262132	NaN	NaN	2015	10/04/2016	03:52:50	PM	NaN
262133	NaN	NaN	2015	10/08/2016	03:45:01	PM	NaN
262134	1148206.0	1900158.0	2015	10/05/2016	03:49:16	PM	41.881978
262135	1159624.0	1895296.0	2015	10/05/2016	03:49:16	PM	41.868409
262136	NaN	NaN	2015	10/05/2016	03:52:03	PM	NaN
262137	NaN	NaN	2015	10/05/2016	03:52:03	PM	NaN
262138	NaN	NaN	2015	10/05/2016	03:52:03	PM	NaN
262139	1154411.0	1891029.0	2015	10/06/2016	03:51:28	PM	41.856806
262140	NaN	NaN	2015	10/06/2016	03:54:49	PM	NaN

262141	NaN	NaN	2015	10/06/2016	03:54:49	PM	NaN
262142	NaN	NaN	2015	10/06/2016	03:54:49	PM	NaN
262143	NaN	NaN	2015	10/08/2016	03:45:01	PM	NaN
262144	NaN	NaN	2015	10/07/2016	03:55:01	PM	NaN
262145	1151262.0	1894962.0	2015	10/08/2016	03:45:01	PM	41.867661
262146	NaN	NaN	2015	10/08/2016	03:46:57	PM	NaN
262147	1181358.0	1861819.0	2015	10/09/2016	03:47:12	PM	41.776071
262148	NaN	NaN	2015	10/09/2016	03:49:15	PM	NaN
262149	NaN	NaN	2015	10/09/2016	03:49:15	PM	NaN
262150	NaN	NaN	2015	10/09/2016	03:49:15	PM	NaN

	Longitude	Location
0	NaN	NaN
1	NaN	NaN
2	-87.651925	(41.939943264, -87.651924995)
3	-87.720117	(41.860124593, -87.720116627)
4	-87.781987	(41.936538876, -87.781987083)
5	-87.775741	(41.976351974, -87.775741229)
6	-87.609648	(41.783424215, -87.609648327)
7	-87.699144	(41.872848316, -87.69914356)
8	-87.761525	(41.897621617, -87.761524853)
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110690,
110845,
110874,
110877,
111031,
111152,
111177,
111234,
111421,
112062,
112103,
112128,
112135,
112198,
112206,
112426,
112444,
112481,
112523,
112575,
112612,
112643,
113061,
113425,
113476,
113895,
113908,
113989,
114051,
114126,
114201,
114365,
114538,
114597,
114770,
114787,
114859,
115127,
115312,
115313,
115413,
115881,
115949,
116135,

```
116201,  
116202,  
116486,  
116495,  
116635,  
116706,  
116757,  
116778,  
116833,  
116980,  
117419,  
117476,  
117749,  
117761,  
118069,  
118282,  
118531,  
118941,  
119029,  
119159,  
119160,  
119341,  
119371,  
119666,  
119942,  
119965,  
120422,  
120577,  
121010,  
121045,  
121233,  
121303,  
121864,  
122082,  
122135,  
122137,  
122268,  
122694,  
122804,  
122922,  
123026,  
123035,  
123066,  
...]}
```

```
In [8]: community_crime_count = crimes_by_community['ID'].agg('count')  
        community_crime_count
```

```
Out[8]: Community Area
```

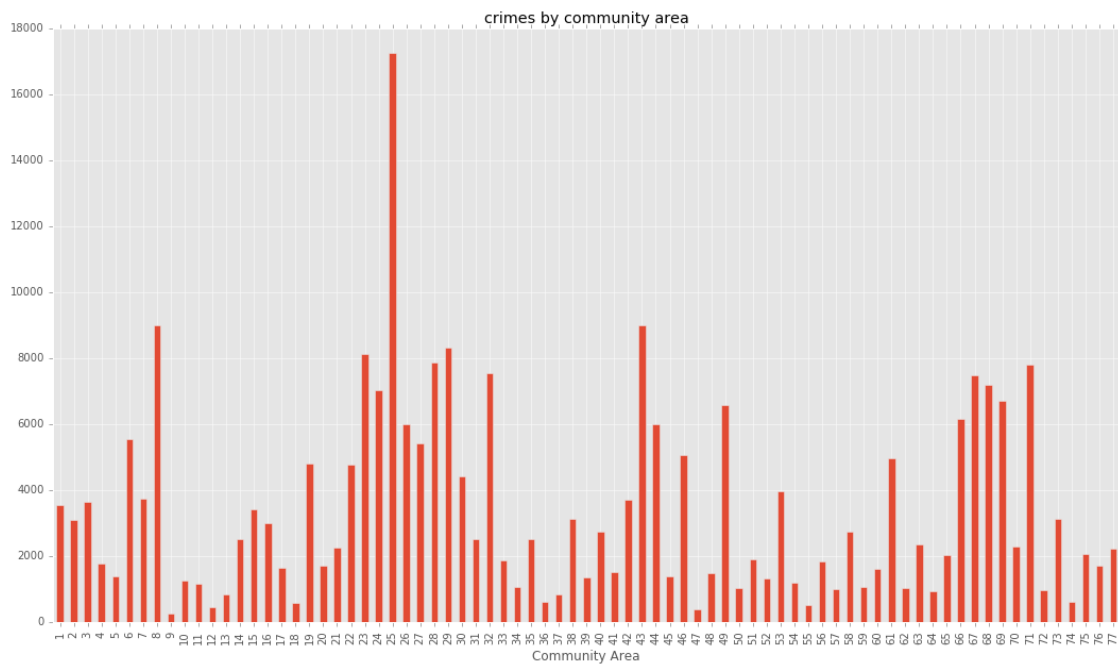
1	3565
2	3087
3	3636
4	1761
5	1387
6	5554
7	3745
8	9002
9	256
10	1267
11	1150
12	444
13	838
14	2513
15	3427
16	2996
17	1641
18	583
19	4806
20	1720
21	2253
22	4768
23	8144
24	7033
25	17250
26	5996
27	5415
28	7882
29	8333
30	4422
	...
48	1471
49	6593
50	1042
51	1912
52	1313
53	3984
54	1182
55	511
56	1839
57	992
58	2731
59	1077
60	1606
61	4964
62	1031
63	2357
64	931

```

65      2044
66     6175
67     7490
68     7201
69     6727
70     2299
71     7802
72      984
73     3139
74      613
75     2068
76     1717
77     2239
Name: ID, dtype: int64

```

```
In [32]: community_crime_count.plot(kind='bar',title='crimes by community area');
```



1.1.3 2.

Ordene las Community Areas de acuerdo con el número de crímenes. ¿Qué Community Area (por nombre, idealmente) presenta el mayor número de crímenes? ¿El menor?

```
In [33]: community_crime_count.sort_values(inplace=True)
community_crime_count
```

Out[33]: Community Area

9	256
47	386
12	444
55	511
18	583
74	613
36	626
13	838
37	839
64	931
72	984
57	992
62	1031
50	1042
34	1067
59	1077
11	1150
54	1182
10	1267
52	1313
39	1356
45	1374
5	1387
48	1471
41	1504
60	1606
17	1641
76	1717
20	1720
4	1761
	...
73	3139
15	3427
1	3565
3	3636
42	3720
7	3745
53	3984
30	4422
22	4768
19	4806
61	4964
46	5052
27	5415
6	5554
26	5996
44	6007


```

66      6175
49      6593
69      6727
24      7033
68      7201
67      7490
32      7550
71      7802
28      7882
23      8144
29      8333
8       9002
43      9009
25     17250
Name: ID, dtype: int64

```

La que tiene mas crímenes es: 25 Austin.

La que tiene menos crímenes es: 9 Edison Park.

1.1.4 3.

Cree una tabla cuyas filas sean días del año (yyyy-mm-dd) y las columnas las 77 Community Areas. En cada campo de la tabla deberá haber el correspondiente número de crímenes. Seleccione algunas Community Areas que le llamen la atención y haga un gráfico de serie de tiempo.

Pista: El siguiente código puede serle útil.

```

In [38]: crimes['Day'] = crimes['Date'].dt.day
         crimes

```

```

Out[38]:
      ID Case Number      Date \
0    10514462  HZ256372 2015-01-01 00:00:00
1    10515175  HZ257172 2015-11-24 17:30:00
2    10077106  HY266148 2015-05-19 01:12:00
3    10111002  HY299741 2015-06-13 16:45:00
4    10301916  HY469211 2015-01-01 00:00:00
5    10160687  HY313819 2015-06-24 06:00:00
6    10181647  HY215976 2015-04-09 16:30:51
7    10192026  HY360910 2015-07-29 16:21:21
8    10203133  HY381916 2015-08-14 10:55:00
9    10211492  HY257237 2015-05-12 11:54:19
10   10211589  HY340025 2015-07-14 06:00:00
11   10211597  HY334821 2015-07-10 06:00:00
12   10211611  HY333584 2015-07-09 06:00:00
13   10211617  HY333517 2015-07-09 06:00:00
14   10211621  HY369125 2015-08-04 17:24:00
15   10211623  HY331028 2015-07-07 06:00:00
16   10211630  HY323307 2015-07-01 06:00:00

```

17	10212757	HY369072	2015-08-04	16:51:00
18	10212800	HY368655	2015-08-04	11:53:00
19	10213138	HY371827	2015-08-06	16:58:08
20	10213157	HY371446	2015-08-06	12:18:43
21	10213250	HY371306	2015-08-06	11:42:00
22	10214240	HY370160	2015-08-05	14:00:00
23	10214258	HY370494	2015-08-05	17:05:00
24	10214280	HY370501	2015-08-05	17:22:00
25	10214340	HY373225	2015-08-07	17:53:42
26	10217851	HY381066	2015-08-13	13:59:54
27	10217898	HY381838	2015-08-14	07:52:55
28	10218176	HY381348	2015-08-13	19:33:00
29	10218922	HY234127	2015-04-24	11:50:00
...
262121	10700720	HZ455790	2015-09-20	09:00:00
262122	10701400	HZ456880	2015-12-08	08:30:00
262123	10265465	HY452798	2015-10-03	11:00:00
262124	10702262	HZ458005	2015-05-08	09:00:00
262125	10702799	HZ458536	2015-12-01	12:00:00
262126	10118312	HY306929	2015-06-18	21:28:00
262127	10703491	HZ459359	2015-06-26	09:00:00
262128	10703279	HZ459188	2015-10-15	17:00:00
262129	10703400	HZ459367	2015-05-01	00:00:00
262130	10703798	HZ459717	2015-11-09	18:00:00
262131	10703895	HZ458274	2015-10-01	09:00:00
262132	10704308	HZ460398	2015-04-29	10:00:00
262133	10049897	HY196971	2015-03-24	16:50:00
262134	10310276	HY498927	2015-11-12	14:06:00
262135	9942792	HY131177	2015-01-27	20:28:00
262136	10704703	HZ460821	2015-08-01	09:00:00
262137	10704724	HZ460889	2015-01-15	12:00:00
262138	10704909	HZ460850	2015-10-29	13:00:00
262139	10209156	HY396362	2015-08-25	00:57:00
262140	10703722	HZ454893	2015-01-01	00:00:00
262141	10705957	HZ462316	2015-05-15	14:00:00
262142	10706168	HZ462589	2015-03-01	00:01:00
262143	10210083	HY390628	2015-08-20	16:55:39
262144	10706895	HZ463412	2015-12-10	13:00:00
262145	10044601	HY233389	2015-04-23	15:00:00
262146	10708451	HZ463432	2015-01-01	00:01:00
262147	10189568	HY377617	2015-08-11	05:00:00
262148	10709174	HZ466379	2015-01-01	00:01:00
262149	10709385	HZ466670	2015-04-15	09:00:00
262150	22831	HR264876	2015-01-29	00:01:00

	Block	IUCR	Primary Type \
0	073XX S EXCHANGE AVE	0281	CRIM SEXUAL ASSAULT
1	033XX W ADAMS ST	0820	THEFT

2	009XX W BELMONT AVE	0560	ASSAULT
3	015XX S HAMLIN AVE	143A	WEAPONS VIOLATION
4	062XX W BARRY AVE	0266	CRIM SEXUAL ASSAULT
5	052XX N MARMORA AVE	1811	NARCOTICS
6	061XX S CHAMPLAIN AVE	2024	NARCOTICS
7	029XX W FLOURNOY ST	2027	NARCOTICS
8	054XX W WALTON ST	1821	NARCOTICS
9	066XX S WASHTENAW AVE	1811	NARCOTICS
10	033XX W FILLMORE ST	1812	NARCOTICS
11	006XX W OHARE ST	2093	NARCOTICS
12	033XX W FILLMORE ST	1812	NARCOTICS
13	033XX W FILLMORE ST	1812	NARCOTICS
14	075XX S STONY ISLAND AVE	2017	NARCOTICS
15	033XX W FILLMORE ST	1812	NARCOTICS
16	033XX W FILLMORE ST	2031	NARCOTICS
17	007XX S KEDVALE AVE	2024	NARCOTICS
18	005XX N LAWLER AVE	2017	NARCOTICS
19	013XX S HOMAN AVE	1811	NARCOTICS
20	014XX W 66TH ST	1811	NARCOTICS
21	050XX W DIVISION ST	1821	NARCOTICS
22	013XX N HUDSON AVE	2014	NARCOTICS
23	015XX E 76TH ST	2017	NARCOTICS
24	0000X E 87TH ST	1822	NARCOTICS
25	012XX S FAIRFIELD AVE	2024	NARCOTICS
26	013XX N LOCKWOOD AVE	1811	NARCOTICS
27	035XX N PULASKI RD	2022	NARCOTICS
28	015XX E 76TH PL	2027	NARCOTICS
29	071XX S ASHLAND AVE	2024	NARCOTICS
...
262121	050XX S DR MARTIN LUTHER KING JR DR	1153	DECEPTIVE PRACTICE
262122	104XX S MICHIGAN AVE	1155	DECEPTIVE PRACTICE
262123	021XX E 93RD ST	0620	BURGLARY
262124	099XX S YALE AVE	1110	DECEPTIVE PRACTICE
262125	033XX S ASHLAND AVE	2826	OTHER OFFENSE
262126	053XX S JUSTINE ST	143A	WEAPONS VIOLATION
262127	003XX W BARRY AVE	1195	DECEPTIVE PRACTICE
262128	030XX S KOMENSKY AVE	1562	SEX OFFENSE
262129	017XX N MEADE AVE	1153	DECEPTIVE PRACTICE
262130	052XX W 55TH ST	1130	DECEPTIVE PRACTICE
262131	026XX E 77TH ST	0890	THEFT
262132	005XX W 60TH PL	1153	DECEPTIVE PRACTICE
262133	055XX W QUINCY ST	2014	NARCOTICS
262134	042XX W WASHINGTON BLVD	143A	WEAPONS VIOLATION
262135	025XX W FILLMORE ST	1153	DECEPTIVE PRACTICE
262136	013XX W SUNNYSIDE AVE	1153	DECEPTIVE PRACTICE
262137	122XX S EGGLESTON AVE	1153	DECEPTIVE PRACTICE
262138	014XX S MILLARD AVE	0820	THEFT
262139	033XX W OGDEN AVE	0810	THEFT

262140	0000X W 103RD PL	1562	SEX OFFENSE
262141	008XX W WELLINGTON AVE	1153	DECEPTIVE PRACTICE
262142	048XX N CHRISTIANA AVE	0266	CRIM SEXUAL ASSAULT
262143	044XX W MONROE ST	2024	NARCOTICS
262144	062XX S CLAREMONT AVE	1154	DECEPTIVE PRACTICE
262145	011XX S INDEPENDENCE BLVD	265	CRIM SEXUAL ASSAULT
262146	057XX W PATTERSON AVE	1541	OBSCENITY
262147	065XX S ST LAWRENCE AVE	650	BURGLARY
262148	042XX S MICHIGAN AVE	1153	DECEPTIVE PRACTICE
262149	012XX N CLYBOURN AVE	1153	DECEPTIVE PRACTICE
262150	023XX N MOODY AVE	110	HOMICIDE

	Description \
0	NON-AGGRAVATED
1	\$500 AND UNDER
2	SIMPLE
3	UNLAWFUL POSS OF HANDGUN
4	PREDATORY
5	POSS: CANNABIS 30GMS OR LESS
6	POSS: HEROIN(WHITE)
7	POSS: CRACK
8	MANU/DEL:CANNABIS 10GM OR LESS
9	POSS: CANNABIS 30GMS OR LESS
10	POSS: CANNABIS MORE THAN 30GMS
11	FOUND SUSPECT NARCOTICS
12	POSS: CANNABIS MORE THAN 30GMS
13	POSS: CANNABIS MORE THAN 30GMS
14	MANU/DELIVER:CRACK
15	POSS: CANNABIS MORE THAN 30GMS
16	POSS: METHAMPHETAMINES
17	POSS: HEROIN(WHITE)
18	MANU/DELIVER:CRACK
19	POSS: CANNABIS 30GMS OR LESS
20	POSS: CANNABIS 30GMS OR LESS
21	MANU/DEL:CANNABIS 10GM OR LESS
22	MANU/DELIVER: HEROIN (WHITE)
23	MANU/DELIVER:CRACK
24	MANU/DEL:CANNABIS OVER 10 GMS
25	POSS: HEROIN(WHITE)
26	POSS: CANNABIS 30GMS OR LESS
27	POSS: COCAINE
28	POSS: CRACK
29	POSS: HEROIN(WHITE)
...	...
262121	FINANCIAL IDENTITY THEFT OVER \$ 300
262122	AGGRAVATED FINANCIAL IDENTITY THEFT
262123	UNLAWFUL ENTRY
262124	BOGUS CHECK

262125	HARASSMENT BY ELECTRONIC MEANS
262126	UNLAWFUL POSS OF HANDGUN
262127	FINAN EXPLOIT-ELDERLY/DISABLED
262128	AGG CRIMINAL SEXUAL ABUSE
262129	FINANCIAL IDENTITY THEFT OVER \$ 300
262130	FRAUD OR CONFIDENCE GAME
262131	FROM BUILDING
262132	FINANCIAL IDENTITY THEFT OVER \$ 300
262133	MANU/DELIVER: HEROIN (WHITE)
262134	UNLAWFUL POSS OF HANDGUN
262135	FINANCIAL IDENTITY THEFT OVER \$ 300
262136	FINANCIAL IDENTITY THEFT OVER \$ 300
262137	FINANCIAL IDENTITY THEFT OVER \$ 300
262138	\$500 AND UNDER
262139	OVER \$500
262140	AGG CRIMINAL SEXUAL ABUSE
262141	FINANCIAL IDENTITY THEFT OVER \$ 300
262142	PREDATORY
262143	POSS: HEROIN(WHITE)
262144	FINANCIAL IDENTITY THEFT \$300 AND UNDER
262145	AGGRAVATED: OTHER
262146	SALE/DIST OBSCENE MAT TO MINOR
262147	HOME INVASION
262148	FINANCIAL IDENTITY THEFT OVER \$ 300
262149	FINANCIAL IDENTITY THEFT OVER \$ 300
262150	FIRST DEGREE MURDER

	Location Description	Arrest	Domestic ...	Community Ar
0	NURSING HOME/RETIREMENT HOME	False	False ...	
1	RESIDENCE	False	False ...	
2	APARTMENT	True	False ...	
3	ALLEY	False	False ...	
4	RESIDENCE	True	True ...	
5	RESIDENCE	True	False ...	
6	RESIDENCE	True	False ...	
7	APARTMENT	True	False ...	
8	VEHICLE NON-COMMERCIAL	True	False ...	
9	RESIDENCE	True	False ...	
10	POLICE FACILITY/VEH PARKING LOT	True	False ...	
11	GOVERNMENT BUILDING/PROPERTY	True	False ...	
12	POLICE FACILITY/VEH PARKING LOT	True	False ...	
13	POLICE FACILITY/VEH PARKING LOT	True	False ...	
14	VEHICLE NON-COMMERCIAL	True	False ...	
15	POLICE FACILITY/VEH PARKING LOT	True	False ...	
16	POLICE FACILITY/VEH PARKING LOT	True	False ...	
17	APARTMENT	True	False ...	
18	VEHICLE NON-COMMERCIAL	True	False ...	
19	APARTMENT	True	False ...	

20		APARTMENT	True	False	...
21		SIDEWALK	True	False	...
22		SIDEWALK	True	False	...
23		VEHICLE NON-COMMERCIAL	True	False	...
24	PARKING	LOT/GARAGE (NON.RESID.)	True	False	...
25		APARTMENT	True	False	...
26		APARTMENT	True	False	...
27		RESIDENCE	True	False	...
28		RESIDENCE	True	False	...
29		STREET	True	False	...
...	
262121		APARTMENT	False	False	...
262122		RESIDENCE	False	False	...
262123		RESIDENCE	True	False	...
262124		RESIDENCE	False	False	...
262125		RESIDENCE	False	True	...
262126		STREET	True	False	...
262127		APARTMENT	False	False	...
262128		RESIDENCE	False	False	...
262129		APARTMENT	False	False	...
262130		RESIDENCE-GARAGE	False	False	...
262131		ABANDONED BUILDING	False	False	...
262132		RESIDENCE	False	False	...
262133		SIDEWALK	True	False	...
262134		STREET	True	False	...
262135		APARTMENT	False	False	...
262136		APARTMENT	False	False	...
262137		RESIDENCE	False	False	...
262138		STREET	False	False	...
262139		STREET	True	False	...
262140		RESIDENCE	False	False	...
262141		HOSPITAL BUILDING/GROUNDS	False	False	...
262142		RESIDENCE	False	True	...
262143		APARTMENT	True	False	...
262144		STREET	False	False	...
262145		ABANDONED BUILDING	True	False	...
262146		RESIDENCE	False	False	...
262147		RESIDENCE	True	False	...
262148		RESIDENCE	False	False	...
262149		RESIDENCE	False	False	...
262150		STREET	False	False	...

	FBI Code	X Coordinate	Y Coordinate	Year	Updated On	
0	02	NaN	NaN	2015	05/10/2016	03:56:50 PM
1	06	NaN	NaN	2015	05/10/2016	03:56:50 PM
2	08A	1169640.0	1921442.0	2015	05/11/2016	03:48:18 PM
3	15	1151295.0	1892216.0	2015	05/11/2016	03:48:18 PM
4	02	1134262.0	1919947.0	2015	05/11/2016	03:48:18 PM

5	18	1135867.0	1934466.0	2015	05/12/2016	03:48:29	PM
6	18	1181623.0	1864501.0	2015	05/12/2016	03:48:29	PM
7	18	1156974.0	1896894.0	2015	05/12/2016	03:48:29	PM
8	18	1139924.0	1905802.0	2015	05/12/2016	03:48:29	PM
9	18	1159517.0	1860604.0	2015	05/12/2016	03:48:29	PM
10	18	1154228.0	1895173.0	2015	05/12/2016	03:48:29	PM
11	18	1100088.0	1926079.0	2015	05/12/2016	03:48:29	PM
12	18	1154228.0	1895173.0	2015	05/12/2016	03:48:29	PM
13	18	1154228.0	1895173.0	2015	05/12/2016	03:48:29	PM
14	18	1188123.0	1855151.0	2015	05/12/2016	03:48:29	PM
15	18	1154228.0	1895173.0	2015	05/12/2016	03:48:29	PM
16	18	1154228.0	1895173.0	2015	05/12/2016	03:48:29	PM
17	18	1148838.0	1896308.0	2015	05/12/2016	03:48:29	PM
18	18	1142599.0	1903190.0	2015	05/12/2016	03:48:29	PM
19	18	1153916.0	1893520.0	2015	05/12/2016	03:48:29	PM
20	18	1167978.0	1860982.0	2015	05/12/2016	03:48:29	PM
21	18	1142681.0	1907524.0	2015	05/12/2016	03:48:29	PM
22	18	1173067.0	1909543.0	2015	05/12/2016	03:48:29	PM
23	18	1187947.0	1854903.0	2015	05/12/2016	03:48:29	PM
24	18	1178069.0	1847315.0	2015	05/12/2016	03:48:29	PM
25	18	1158231.0	1894123.0	2015	05/12/2016	03:48:29	PM
26	18	1140785.0	1908250.0	2015	05/12/2016	03:48:29	PM
27	18	1149094.0	1923450.0	2015	05/12/2016	03:48:29	PM
28	18	1187741.0	1854562.0	2015	05/12/2016	03:48:29	PM
29	18	1166924.0	1857157.0	2015	05/12/2016	03:48:29	PM
...
262121	11	NaN	NaN	2015	10/02/2016	03:47:43	PM
262122	11	NaN	NaN	2015	10/02/2016	03:49:39	PM
262123	05	1191882.0	1843718.0	2015	10/03/2016	03:54:00	PM
262124	11	NaN	NaN	2015	10/03/2016	03:57:52	PM
262125	26	NaN	NaN	2015	10/03/2016	03:57:52	PM
262126	15	1166911.0	1869320.0	2015	10/04/2016	03:50:48	PM
262127	11	NaN	NaN	2015	10/04/2016	03:52:50	PM
262128	17	NaN	NaN	2015	10/04/2016	03:52:50	PM
262129	11	NaN	NaN	2015	10/04/2016	03:52:50	PM
262130	11	NaN	NaN	2015	10/04/2016	03:52:50	PM
262131	06	NaN	NaN	2015	10/04/2016	03:52:50	PM
262132	11	NaN	NaN	2015	10/04/2016	03:52:50	PM
262133	18	NaN	NaN	2015	10/08/2016	03:45:01	PM
262134	15	1148206.0	1900158.0	2015	10/05/2016	03:49:16	PM
262135	11	1159624.0	1895296.0	2015	10/05/2016	03:49:16	PM
262136	11	NaN	NaN	2015	10/05/2016	03:52:03	PM
262137	11	NaN	NaN	2015	10/05/2016	03:52:03	PM
262138	06	NaN	NaN	2015	10/05/2016	03:52:03	PM
262139	06	1154411.0	1891029.0	2015	10/06/2016	03:51:28	PM
262140	17	NaN	NaN	2015	10/06/2016	03:54:49	PM
262141	11	NaN	NaN	2015	10/06/2016	03:54:49	PM
262142	02	NaN	NaN	2015	10/06/2016	03:54:49	PM

262143	18	NaN	NaN	2015	10/08/2016	03:45:01	PM
262144	11	NaN	NaN	2015	10/07/2016	03:55:01	PM
262145	02	1151262.0	1894962.0	2015	10/08/2016	03:45:01	PM
262146	17	NaN	NaN	2015	10/08/2016	03:46:57	PM
262147	05	1181358.0	1861819.0	2015	10/09/2016	03:47:12	PM
262148	11	NaN	NaN	2015	10/09/2016	03:49:15	PM
262149	11	NaN	NaN	2015	10/09/2016	03:49:15	PM
262150	01A	NaN	NaN	2015	10/09/2016	03:49:15	PM

	Latitude	Longitude		Location	Day
0	NaN	NaN		NaN	1
1	NaN	NaN		NaN	24
2	41.939943	-87.651925	(41.939943264, -87.651924995)		19
3	41.860125	-87.720117	(41.860124593, -87.720116627)		13
4	41.936539	-87.781987	(41.936538876, -87.781987083)		1
5	41.976352	-87.775741	(41.976351974, -87.775741229)		24
6	41.783424	-87.609648	(41.783424215, -87.609648327)		9
7	41.872848	-87.699144	(41.872848316, -87.69914356)		29
8	41.897622	-87.761525	(41.897621617, -87.761524853)		14
9	41.773212	-87.690803	(41.773212262, -87.690803401)		12
10	41.868181	-87.709271	(41.868180939, -87.709271389)		14
11	41.953900	-87.907473	(41.953900467, -87.907472601)		10
12	41.868181	-87.709271	(41.868180939, -87.709271389)		9
13	41.868181	-87.709271	(41.868180939, -87.709271389)		9
14	41.757614	-87.586115	(41.757614433, -87.586115266)		4
15	41.868181	-87.709271	(41.868180939, -87.709271389)		7
16	41.868181	-87.709271	(41.868180939, -87.709271389)		1
17	41.871401	-87.729030	(41.871401333, -87.729029971)		4
18	41.890405	-87.751765	(41.890404638, -87.751764782)		4
19	41.863651	-87.710461	(41.863651143, -87.71046084)		6
20	41.774072	-87.659776	(41.774071891, -87.659776488)		6
21	41.902296	-87.751356	(41.902296112, -87.75135567)		6
22	41.907216	-87.639684	(41.907216451, -87.639683562)		5
23	41.756938	-87.586768	(41.756938091, -87.586768161)		5
24	41.736345	-87.623199	(41.736345248, -87.623198545)		5
25	41.865219	-87.694604	(41.865218836, -87.694604216)		7
26	41.904323	-87.758302	(41.904323426, -87.758302186)		13
27	41.945877	-87.727386	(41.945876706, -87.727386135)		14
28	41.756007	-87.587534	(41.756007259, -87.587533939)		13
29	41.763598	-87.663749	(41.763598176, -87.663749413)		24
...
262121	NaN	NaN		NaN	20
262122	NaN	NaN		NaN	8
262123	41.726151	-87.572710	(41.726150835, -87.572709607)		3
262124	NaN	NaN		NaN	8
262125	NaN	NaN		NaN	1
262126	41.796975	-87.663450	(41.796975256, -87.663449772)		18
262127	NaN	NaN		NaN	26

262128	NaN	NaN	NaN	15
262129	NaN	NaN	NaN	1
262130	NaN	NaN	NaN	9
262131	NaN	NaN	NaN	1
262132	NaN	NaN	NaN	29
262133	NaN	NaN	NaN	24
262134	41.881978	-87.731251	(41.881978364, -87.731251151)	12
262135	41.868409	-87.689458	(41.868409109, -87.689458166)	27
262136	NaN	NaN	NaN	1
262137	NaN	NaN	NaN	15
262138	NaN	NaN	NaN	29
262139	41.856806	-87.708710	(41.856805691, -87.708710242)	25
262140	NaN	NaN	NaN	1
262141	NaN	NaN	NaN	15
262142	NaN	NaN	NaN	1
262143	NaN	NaN	NaN	20
262144	NaN	NaN	NaN	10
262145	41.867661	-87.720166	(41.867660583, -87.720165769)	23
262146	NaN	NaN	NaN	1
262147	41.776071	-87.610703	(41.776070668, -87.61070253)	11
262148	NaN	NaN	NaN	1
262149	NaN	NaN	NaN	15
262150	NaN	NaN	NaN	29

[262151 rows x 23 columns]

```
In [39]: crimes_by_community_day = crimes.groupby(['Community Area', 'Day'])
         crimes_by_community_day
```

```
Out[39]: <pandas.core.groupby.DataFrameGroupBy object at 0x1168722e8>
```

```
In [41]: crimes_by_community_day_count = crimes_by_community_day['ID'].agg('count')
         crimes_by_community_day_count
```

```
Out[41]: Community Area  Day
1                1      160
              2      121
              3      113
              4      114
              5      114
              6      132
              7      110
              8       90
              9      123
             10      102
             11      124
             12      112
             13      131
             14      123
```

	15	127
	16	129
	17	110
	18	120
	19	112
	20	114
	21	115
	22	114
	23	139
	24	98
	25	108
	26	107
	27	127
	28	132
	29	98
	30	92
		...
77	2	71
	3	68
	4	61
	5	79
	6	72
	7	73
	8	73
	9	85
	10	70
	11	86
	12	54
	13	66
	14	84
	15	77
	16	64
	17	75
	18	81
	19	70
	20	71
	21	73
	22	77
	23	69
	24	73
	25	73
	26	82
	27	67
	28	78
	29	66
	30	65
	31	49

Name: ID, dtype: int64

```
In [42]: community_arrest_timeseries = crimes_by_community_day_count.unstack('Community_Area')
community_arrest_timeseries
```

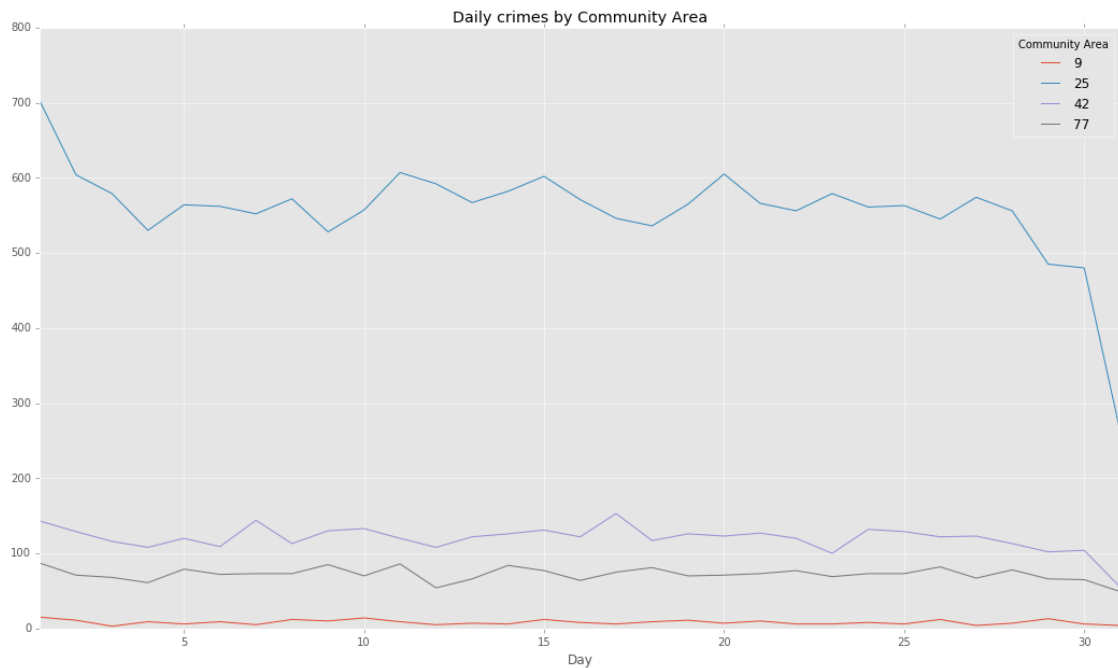
```
Out[42]: Community_Area    1     2     3     4     5     6     7     8     9    10    ...    68    69
Day
1      160   142   155   76   60   205   144   336   15   50   ...   257   251
2      121   108   124   45   56   169   114   296   11   42   ...   240   240
3      113   101   108   67   52   179   127   280    3   36   ...   251   219
4      114   120   128   54   40   177   107   280    9   49   ...   249   217
5      114    99   115   59   55   149   102   252    6   41   ...   228   206
6      132   117   118   51   43   203   108   282    9   37   ...   234   231
7      110   103   110   71   51   187   117   302    5   40   ...   251   197
8       90   116   122   56   36   179   104   295   12   36   ...   215   207
9      123    84   105   68   44   180   137   260   10   45   ...   260   195
10     102   103   122   57   52   184   118   295   14   34   ...   226   212
11     124    77   130   53   50   185   127   279    9   30   ...   246   212
12     112    78   112   58   37   203   142   307    5   46   ...   251   234
13     131   103   116   74   53   193   121   296    7   42   ...   242   242
14     123   103   125   70   49   191   124   325    6   51   ...   256   247
15     127   101   127   66   42   215   149   301   12   49   ...   221   242
16     129    92   133   44   42   201   141   303    8   45   ...   247   249
17     110    97   115   55   61   167   135   292    6   38   ...   261   223
18     120    84   110   72   38   162   139   306    9   43   ...   252   206
19     112   108   128   40   46   161   110   312   11   37   ...   252   231
20     114   106   115   64   41   194   115   313    7   42   ...   259   231
21     115    91   126   56   46   177   139   322   10   35   ...   197   211
22     114   103   106   55   35   178   109   288    6   41   ...   246   188
23     139   103   139   58   48   177   117   319    6   39   ...   243   218
24       98    92   109   68   55   179   136   306    8   41   ...   211   237
25     108   100   101   59   47   180   109   306    6   36   ...   233   210
26     107   105   116   31   42   169   114   270   12   62   ...   233   225
27     127   100   109   43   43   166   111   272    4   42   ...   228   202
28     132   106   141   51   33   233   156   287    7   36   ...   214   200
29       98   105   113   58   43   157   104   291   13   37   ...   200   223
30       92    90    95   50   24   138   103   279    6   46   ...   192   211
31       54    50    63   32   23   116    66   150    4   19   ...   106   110

Community_Area   70    71    72    73    74    75    76    77
Day
1      97   322   38   151   34   85   56   87
2      79   230   36   109   29   78   66   71
3      72   234   33    99   25   70   57   68
4      78   255   30   102   21   51   66   61
5      75   270   31    99   19   53   57   79
6      74   246   37   105   19   70   59   72
7      60   267   35   113   17   63   56   73
8      76   214   27    97   23   69   52   73
9      73   251   27   104   16   75   59   85
```

10	75	238	34	91	24	66	55	70
11	74	260	31	114	18	78	68	86
12	72	243	37	98	11	63	68	54
13	88	225	32	99	14	71	56	66
14	79	268	30	95	25	54	55	84
15	81	293	37	101	24	51	68	77
16	97	260	26	112	22	74	53	64
17	73	244	35	103	13	95	58	75
18	76	253	32	100	12	84	52	81
19	66	281	40	116	14	65	52	70
20	77	266	23	112	23	71	51	71
21	58	257	31	103	16	65	54	73
22	76	248	23	95	22	56	51	77
23	86	265	30	98	22	56	59	69
24	75	269	31	86	17	60	52	73
25	61	273	33	94	20	61	54	73
26	78	271	38	98	18	71	49	82
27	75	279	36	124	18	72	57	67
28	76	249	31	97	22	51	57	78
29	66	209	23	87	23	73	44	66
30	68	246	37	95	22	76	54	65
31	38	116	20	42	10	41	22	49

[31 rows x 77 columns]

In [43]: community_arrest_timeseries[[9,25,42,77]].plot(title='Daily crimes by Comm



1.1.5 Parte voluntaria

Descargue la base de datos de información socioeconómica (<https://data.cityofchicago.org/Health-Human-Services/Census-Data-Selected-socioeconomic-indicators-in-C/kn9c-c2s2>).

1.1.6 4.

Cree una tabla que agregue el número de crímenes por Community Area. Una esa tabla con la de datos socioeconómicos y cree un “scatter plot” de número de crímenes vs ingreso per cápita. Explique la relación en palabras.

```
In [9]: community_crime_count.to_frame()
```

```
Out [9]:
```

	ID
Community Area	
1	3565
2	3087
3	3636
4	1761
5	1387
6	5554
7	3745
8	9002
9	256
10	1267
11	1150
12	444
13	838
14	2513
15	3427
16	2996
17	1641
18	583
19	4806
20	1720
21	2253
22	4768
23	8144
24	7033
25	17250
26	5996
27	5415
28	7882
29	8333
30	4422
...	...

```

48      1471
49      6593
50      1042
51      1912
52      1313
53      3984
54      1182
55         511
56      1839
57         992
58      2731
59      1077
60      1606
61      4964
62      1031
63      2357
64         931
65      2044
66      6175
67      7490
68      7201
69      6727
70      2299
71      7802
72         984
73      3139
74         613
75      2068
76      1717
77      2239

```

```
[77 rows x 1 columns]
```

```
In [10]: social = pd.read_csv('Downloads/Census_Data_-_Selected_socioeconomic_indic
```

```
In [11]: social
```

```
Out[11]:
```

	Community Area Number	COMMUNITY AREA NAME	PERCENT OF HOUSING CROW
0	1.0	Rogers Park	
1	2.0	West Ridge	
2	3.0	Uptown	
3	4.0	Lincoln Square	
4	5.0	North Center	
5	6.0	Lake View	
6	7.0	Lincoln Park	
7	8.0	Near North Side	
8	9.0	Edison Park	
9	10.0	Norwood Park	

10	11.0	Jefferson Park
11	12.0	Forest Glen
12	13.0	North Park
13	14.0	Albany Park
14	15.0	Portage Park
15	16.0	Irving Park
16	17.0	Dunning
17	18.0	Montclair
18	19.0	Belmont Cragin
19	20.0	Hermosa
20	21.0	Avondale
21	22.0	Logan Square
22	23.0	Humboldt park
23	24.0	West Town
24	25.0	Austin
25	26.0	West Garfield Park
26	27.0	East Garfield Park
27	28.0	Near West Side
28	29.0	North Lawndale
29	30.0	South Lawndale
..
48	49.0	Roseland
49	50.0	Pullman
50	51.0	South Deering
51	52.0	East Side
52	53.0	West Pullman
53	54.0	Riverdale
54	55.0	Hegewisch
55	56.0	Garfield Ridge
56	57.0	Archer Heights
57	58.0	Brighton Park
58	59.0	McKinley Park
59	60.0	Bridgeport
60	61.0	New City
61	62.0	West Elsdon
62	63.0	Gage Park
63	64.0	Clearing
64	65.0	West Lawn
65	66.0	Chicago Lawn
66	67.0	West Englewood
67	68.0	Englewood
68	69.0	Greater Grand Crossing
69	70.0	Ashburn
70	71.0	Auburn Gresham
71	72.0	Beverly
72	73.0	Washington Height
73	74.0	Mount Greenwood
74	75.0	Morgan Park

75	76.0	O'Hare
76	77.0	Edgewater
77	NaN	CHICAGO

	PERCENT HOUSEHOLDS BELOW POVERTY	PERCENT AGED 16+ UNEMPLOYED \
0	23.6	8.7
1	17.2	8.8
2	24.0	8.9
3	10.9	8.2
4	7.5	5.2
5	11.4	4.7
6	12.3	5.1
7	12.9	7.0
8	3.3	6.5
9	5.4	9.0
10	8.6	12.4
11	7.5	6.8
12	13.2	9.9
13	19.2	10.0
14	11.6	12.6
15	13.1	10.0
16	10.6	10.0
17	15.3	13.8
18	18.7	14.6
19	20.5	13.1
20	15.3	9.2
21	16.8	8.2
22	33.9	17.3
23	14.7	6.6
24	28.6	22.6
25	41.7	25.8
26	42.4	19.6
27	20.6	10.7
28	43.1	21.2
29	30.7	15.8
..
48	19.8	20.3
49	21.6	22.8
50	29.2	16.3
51	19.2	12.1
52	25.9	19.4
53	56.5	34.6
54	17.1	9.6
55	8.8	11.3
56	14.1	16.5
57	23.6	13.9
58	18.7	13.4
59	18.9	13.7

60	29.0	23.0
61	15.6	16.7
62	23.4	18.2
63	8.9	9.5
64	14.9	9.6
65	27.9	17.1
66	34.4	35.9
67	46.6	28.0
68	29.6	23.0
69	10.4	11.7
70	27.6	28.3
71	5.1	8.0
72	16.9	20.8
73	3.4	8.7
74	13.2	15.0
75	15.4	7.1
76	18.2	9.2
77	19.7	12.9

PERCENT AGED 25+ WITHOUT HIGH SCHOOL DIPLOMA \

0	18.2
1	20.8
2	11.8
3	13.4
4	4.5
5	2.6
6	3.6
7	2.5
8	7.4
9	11.5
10	13.4
11	4.9
12	14.4
13	32.9
14	19.3
15	22.4
16	16.2
17	23.5
18	37.3
19	41.6
20	24.7
21	14.8
22	35.4
23	12.9
24	24.4
25	24.5
26	21.3
27	9.6

28	27.6
29	54.8
..	...
48	16.9
49	13.1
50	21.0
51	31.9
52	20.5
53	27.5
54	19.2
55	19.3
56	35.9
57	45.1
58	32.9
59	22.2
60	41.5
61	37.0
62	51.5
63	18.8
64	33.6
65	31.2
66	26.3
67	28.5
68	16.5
69	17.7
70	18.5
71	3.7
72	13.7
73	4.3
74	10.8
75	10.9
76	9.7
77	19.5

	PERCENT AGED UNDER 18 OR OVER 64	PER CAPITA INCOME	HARDSHIP INDEX
0	27.5	23939	39.0
1	38.5	23040	46.0
2	22.2	35787	20.0
3	25.5	37524	17.0
4	26.2	57123	6.0
5	17.0	60058	5.0
6	21.5	71551	2.0
7	22.6	88669	1.0
8	35.3	40959	8.0
9	39.5	32875	21.0
10	35.5	27751	25.0
11	40.5	44164	11.0
12	39.0	26576	33.0

13	32.0	21323	53.0
14	34.0	24336	35.0
15	31.6	27249	34.0
16	33.6	26282	28.0
17	38.6	22014	50.0
18	37.3	15461	70.0
19	36.4	15089	71.0
20	31.0	20039	42.0
21	26.2	31908	23.0
22	38.0	13781	85.0
23	21.7	43198	10.0
24	37.9	15957	73.0
25	43.6	10934	92.0
26	43.2	12961	83.0
27	22.2	44689	15.0
28	42.7	12034	87.0
29	33.8	10402	96.0
..
48	41.2	17949	52.0
49	38.6	20588	51.0
50	39.5	14685	65.0
51	42.8	17104	64.0
52	42.1	16563	62.0
53	51.5	8201	98.0
54	42.9	22677	44.0
55	38.1	26353	32.0
56	39.2	16134	67.0
57	39.3	13089	84.0
58	35.6	16954	61.0
59	31.3	22694	43.0
60	38.9	12765	91.0
61	37.7	15754	69.0
62	38.8	12171	93.0
63	37.6	25113	29.0
64	39.6	16907	56.0
65	40.6	13231	80.0
66	40.7	11317	89.0
67	42.5	11888	94.0
68	41.0	17285	66.0
69	36.9	23482	37.0
70	41.9	15528	74.0
71	40.5	39523	12.0
72	42.6	19713	48.0
73	36.8	34381	16.0
74	40.3	27149	30.0
75	30.3	25828	24.0
76	23.8	33385	19.0
77	33.5	28202	NaN

[78 rows x 9 columns]

```
In [12]: social.drop([77])
```

```
Out[12]:
```

	Community Area Number	COMMUNITY AREA NAME	PERCENT OF HOUSING CROW
0	1.0	Rogers Park	
1	2.0	West Ridge	
2	3.0	Uptown	
3	4.0	Lincoln Square	
4	5.0	North Center	
5	6.0	Lake View	
6	7.0	Lincoln Park	
7	8.0	Near North Side	
8	9.0	Edison Park	
9	10.0	Norwood Park	
10	11.0	Jefferson Park	
11	12.0	Forest Glen	
12	13.0	North Park	
13	14.0	Albany Park	
14	15.0	Portage Park	
15	16.0	Irving Park	
16	17.0	Dunning	
17	18.0	Montclair	
18	19.0	Belmont Cragin	
19	20.0	Hermosa	
20	21.0	Avondale	
21	22.0	Logan Square	
22	23.0	Humboldt park	
23	24.0	West Town	
24	25.0	Austin	
25	26.0	West Garfield Park	
26	27.0	East Garfield Park	
27	28.0	Near West Side	
28	29.0	North Lawndale	
29	30.0	South Lawndale	
..	
47	48.0	Calumet Heights	
48	49.0	Roseland	
49	50.0	Pullman	
50	51.0	South Deering	
51	52.0	East Side	
52	53.0	West Pullman	
53	54.0	Riverdale	
54	55.0	Hegewisch	
55	56.0	Garfield Ridge	
56	57.0	Archer Heights	
57	58.0	Brighton Park	

58	59.0	McKinley Park
59	60.0	Bridgeport
60	61.0	New City
61	62.0	West Elsdon
62	63.0	Gage Park
63	64.0	Clearing
64	65.0	West Lawn
65	66.0	Chicago Lawn
66	67.0	West Englewood
67	68.0	Englewood
68	69.0	Greater Grand Crossing
69	70.0	Ashburn
70	71.0	Auburn Gresham
71	72.0	Beverly
72	73.0	Washington Height
73	74.0	Mount Greenwood
74	75.0	Morgan Park
75	76.0	O'Hare
76	77.0	Edgewater

	PERCENT HOUSEHOLDS BELOW POVERTY	PERCENT AGED 16+ UNEMPLOYED \
0	23.6	8.7
1	17.2	8.8
2	24.0	8.9
3	10.9	8.2
4	7.5	5.2
5	11.4	4.7
6	12.3	5.1
7	12.9	7.0
8	3.3	6.5
9	5.4	9.0
10	8.6	12.4
11	7.5	6.8
12	13.2	9.9
13	19.2	10.0
14	11.6	12.6
15	13.1	10.0
16	10.6	10.0
17	15.3	13.8
18	18.7	14.6
19	20.5	13.1
20	15.3	9.2
21	16.8	8.2
22	33.9	17.3
23	14.7	6.6
24	28.6	22.6
25	41.7	25.8
26	42.4	19.6

27	20.6	10.7
28	43.1	21.2
29	30.7	15.8
..
47	11.5	20.0
48	19.8	20.3
49	21.6	22.8
50	29.2	16.3
51	19.2	12.1
52	25.9	19.4
53	56.5	34.6
54	17.1	9.6
55	8.8	11.3
56	14.1	16.5
57	23.6	13.9
58	18.7	13.4
59	18.9	13.7
60	29.0	23.0
61	15.6	16.7
62	23.4	18.2
63	8.9	9.5
64	14.9	9.6
65	27.9	17.1
66	34.4	35.9
67	46.6	28.0
68	29.6	23.0
69	10.4	11.7
70	27.6	28.3
71	5.1	8.0
72	16.9	20.8
73	3.4	8.7
74	13.2	15.0
75	15.4	7.1
76	18.2	9.2

PERCENT AGED 25+ WITHOUT HIGH SCHOOL DIPLOMA \

0	18.2
1	20.8
2	11.8
3	13.4
4	4.5
5	2.6
6	3.6
7	2.5
8	7.4
9	11.5
10	13.4
11	4.9

12	14.4
13	32.9
14	19.3
15	22.4
16	16.2
17	23.5
18	37.3
19	41.6
20	24.7
21	14.8
22	35.4
23	12.9
24	24.4
25	24.5
26	21.3
27	9.6
28	27.6
29	54.8
..	...
47	11.0
48	16.9
49	13.1
50	21.0
51	31.9
52	20.5
53	27.5
54	19.2
55	19.3
56	35.9
57	45.1
58	32.9
59	22.2
60	41.5
61	37.0
62	51.5
63	18.8
64	33.6
65	31.2
66	26.3
67	28.5
68	16.5
69	17.7
70	18.5
71	3.7
72	13.7
73	4.3
74	10.8
75	10.9

	PERCENT AGED UNDER 18 OR OVER 64	PER CAPITA INCOME	HARDSHIP INDEX
0	27.5	23939	39.0
1	38.5	23040	46.0
2	22.2	35787	20.0
3	25.5	37524	17.0
4	26.2	57123	6.0
5	17.0	60058	5.0
6	21.5	71551	2.0
7	22.6	88669	1.0
8	35.3	40959	8.0
9	39.5	32875	21.0
10	35.5	27751	25.0
11	40.5	44164	11.0
12	39.0	26576	33.0
13	32.0	21323	53.0
14	34.0	24336	35.0
15	31.6	27249	34.0
16	33.6	26282	28.0
17	38.6	22014	50.0
18	37.3	15461	70.0
19	36.4	15089	71.0
20	31.0	20039	42.0
21	26.2	31908	23.0
22	38.0	13781	85.0
23	21.7	43198	10.0
24	37.9	15957	73.0
25	43.6	10934	92.0
26	43.2	12961	83.0
27	22.2	44689	15.0
28	42.7	12034	87.0
29	33.8	10402	96.0
..
47	44.0	28887	38.0
48	41.2	17949	52.0
49	38.6	20588	51.0
50	39.5	14685	65.0
51	42.8	17104	64.0
52	42.1	16563	62.0
53	51.5	8201	98.0
54	42.9	22677	44.0
55	38.1	26353	32.0
56	39.2	16134	67.0
57	39.3	13089	84.0
58	35.6	16954	61.0
59	31.3	22694	43.0
60	38.9	12765	91.0

61	37.7	15754	69.0
62	38.8	12171	93.0
63	37.6	25113	29.0
64	39.6	16907	56.0
65	40.6	13231	80.0
66	40.7	11317	89.0
67	42.5	11888	94.0
68	41.0	17285	66.0
69	36.9	23482	37.0
70	41.9	15528	74.0
71	40.5	39523	12.0
72	42.6	19713	48.0
73	36.8	34381	16.0
74	40.3	27149	30.0
75	30.3	25828	24.0
76	23.8	33385	19.0

[77 rows x 9 columns]

```
In [19]: social.rename(index=str, columns={"Community Area Number": "Community Area"
```

```
Out[19]:
```

	Community Area	COMMUNITY AREA NAME	PERCENT OF HOUSING CROWDED	\
0	1.0	Rogers Park	7.7	
1	2.0	West Ridge	7.8	
2	3.0	Uptown	3.8	
3	4.0	Lincoln Square	3.4	
4	5.0	North Center	0.3	
5	6.0	Lake View	1.1	
6	7.0	Lincoln Park	0.8	
7	8.0	Near North Side	1.9	
8	9.0	Edison Park	1.1	
9	10.0	Norwood Park	2.0	
10	11.0	Jefferson Park	2.7	
11	12.0	Forest Glen	1.1	
12	13.0	North Park	3.9	
13	14.0	Albany Park	11.3	
14	15.0	Portage Park	4.1	
15	16.0	Irving Park	6.3	
16	17.0	Dunning	5.2	
17	18.0	Montclair	8.1	
18	19.0	Belmont Cragin	10.8	
19	20.0	Hermosa	6.9	
20	21.0	Avondale	6.0	
21	22.0	Logan Square	3.2	
22	23.0	Humboldt park	14.8	
23	24.0	West Town	2.3	
24	25.0	Austin	6.3	
25	26.0	West Garfield Park	9.4	

26	27.0	East Garfield Park	8.2
27	28.0	Near West Side	3.8
28	29.0	North Lawndale	7.4
29	30.0	South Lawndale	15.2
..
48	49.0	Roseland	2.5
49	50.0	Pullman	1.5
50	51.0	South Deering	4.0
51	52.0	East Side	6.8
52	53.0	West Pullman	3.3
53	54.0	Riverdale	5.8
54	55.0	Hegewisch	3.3
55	56.0	Garfield Ridge	2.6
56	57.0	Archer Heights	8.5
57	58.0	Brighton Park	14.4
58	59.0	McKinley Park	7.2
59	60.0	Bridgeport	4.5
60	61.0	New City	11.9
61	62.0	West Elsdon	11.1
62	63.0	Gage Park	15.8
63	64.0	Clearing	2.7
64	65.0	West Lawn	5.8
65	66.0	Chicago Lawn	7.6
66	67.0	West Englewood	4.8
67	68.0	Englewood	3.8
68	69.0	Greater Grand Crossing	3.6
69	70.0	Ashburn	4.0
70	71.0	Auburn Gresham	4.0
71	72.0	Beverly	0.9
72	73.0	Washington Height	1.1
73	74.0	Mount Greenwood	1.0
74	75.0	Morgan Park	0.8
75	76.0	O'Hare	3.6
76	77.0	Edgewater	4.1
77	NaN	CHICAGO	4.7

	PERCENT HOUSEHOLDS BELOW POVERTY	PERCENT AGED 16+ UNEMPLOYED	\
0	23.6	8.7	
1	17.2	8.8	
2	24.0	8.9	
3	10.9	8.2	
4	7.5	5.2	
5	11.4	4.7	
6	12.3	5.1	
7	12.9	7.0	
8	3.3	6.5	
9	5.4	9.0	
10	8.6	12.4	

11	7.5	6.8
12	13.2	9.9
13	19.2	10.0
14	11.6	12.6
15	13.1	10.0
16	10.6	10.0
17	15.3	13.8
18	18.7	14.6
19	20.5	13.1
20	15.3	9.2
21	16.8	8.2
22	33.9	17.3
23	14.7	6.6
24	28.6	22.6
25	41.7	25.8
26	42.4	19.6
27	20.6	10.7
28	43.1	21.2
29	30.7	15.8
..
48	19.8	20.3
49	21.6	22.8
50	29.2	16.3
51	19.2	12.1
52	25.9	19.4
53	56.5	34.6
54	17.1	9.6
55	8.8	11.3
56	14.1	16.5
57	23.6	13.9
58	18.7	13.4
59	18.9	13.7
60	29.0	23.0
61	15.6	16.7
62	23.4	18.2
63	8.9	9.5
64	14.9	9.6
65	27.9	17.1
66	34.4	35.9
67	46.6	28.0
68	29.6	23.0
69	10.4	11.7
70	27.6	28.3
71	5.1	8.0
72	16.9	20.8
73	3.4	8.7
74	13.2	15.0
75	15.4	7.1

76	18.2	9.2
77	19.7	12.9

	PERCENT AGED 25+ WITHOUT HIGH SCHOOL DIPLOMA \
0	18.2
1	20.8
2	11.8
3	13.4
4	4.5
5	2.6
6	3.6
7	2.5
8	7.4
9	11.5
10	13.4
11	4.9
12	14.4
13	32.9
14	19.3
15	22.4
16	16.2
17	23.5
18	37.3
19	41.6
20	24.7
21	14.8
22	35.4
23	12.9
24	24.4
25	24.5
26	21.3
27	9.6
28	27.6
29	54.8
..	...
48	16.9
49	13.1
50	21.0
51	31.9
52	20.5
53	27.5
54	19.2
55	19.3
56	35.9
57	45.1
58	32.9
59	22.2
60	41.5

61	37.0
62	51.5
63	18.8
64	33.6
65	31.2
66	26.3
67	28.5
68	16.5
69	17.7
70	18.5
71	3.7
72	13.7
73	4.3
74	10.8
75	10.9
76	9.7
77	19.5

	PERCENT AGED UNDER 18 OR OVER 64	PER CAPITA INCOME	HARDSHIP INDEX
0	27.5	23939	39.0
1	38.5	23040	46.0
2	22.2	35787	20.0
3	25.5	37524	17.0
4	26.2	57123	6.0
5	17.0	60058	5.0
6	21.5	71551	2.0
7	22.6	88669	1.0
8	35.3	40959	8.0
9	39.5	32875	21.0
10	35.5	27751	25.0
11	40.5	44164	11.0
12	39.0	26576	33.0
13	32.0	21323	53.0
14	34.0	24336	35.0
15	31.6	27249	34.0
16	33.6	26282	28.0
17	38.6	22014	50.0
18	37.3	15461	70.0
19	36.4	15089	71.0
20	31.0	20039	42.0
21	26.2	31908	23.0
22	38.0	13781	85.0
23	21.7	43198	10.0
24	37.9	15957	73.0
25	43.6	10934	92.0
26	43.2	12961	83.0
27	22.2	44689	15.0
28	42.7	12034	87.0

29	33.8	10402	96.0
..
48	41.2	17949	52.0
49	38.6	20588	51.0
50	39.5	14685	65.0
51	42.8	17104	64.0
52	42.1	16563	62.0
53	51.5	8201	98.0
54	42.9	22677	44.0
55	38.1	26353	32.0
56	39.2	16134	67.0
57	39.3	13089	84.0
58	35.6	16954	61.0
59	31.3	22694	43.0
60	38.9	12765	91.0
61	37.7	15754	69.0
62	38.8	12171	93.0
63	37.6	25113	29.0
64	39.6	16907	56.0
65	40.6	13231	80.0
66	40.7	11317	89.0
67	42.5	11888	94.0
68	41.0	17285	66.0
69	36.9	23482	37.0
70	41.9	15528	74.0
71	40.5	39523	12.0
72	42.6	19713	48.0
73	36.8	34381	16.0
74	40.3	27149	30.0
75	30.3	25828	24.0
76	23.8	33385	19.0
77	33.5	28202	NaN

[78 rows x 9 columns]
