

Python COVID Project

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Here is the initial menu, where we are asked to choose one of the options, that are looking for a statistic, a report, a graphic or exit. I must mention that the data files were obtained from the public records on the Mexican government page.

```
In [1]: runfile('C:/Users/jlms3/Desktop/Casos México/
A01745419_proyectointegrador.py', wdir='C:/Users/jlms3/Desktop/Casos México')

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Información de México
Hecho por José Luis Madrigal
1 = Estadística
2 = Reporte
3 = Gráfica
4 = Salir
Se debe saber que los datos son de 31-12-2019 a 27-09-2020

Hola, elige una acción:
```

This is an example of the first option, that is a statistic, then the type of case was chosen, here it was the confirmed ones and then the state which was Guerrero. At the end we can see the mean, mode, median, variance and standard deviation.

```
Se debe saber que los datos son de 31-12-2019 a 27-09-2020

Hola, elige una acción: 1

1 = Todos
2 = Confirmados
3 = Defunciones
4 = Negativos
5 = Sospechosos

Elige un caso: 2

1 = Aguascalientes      11 = Guanajuato        21 = Puebla
2 = Baja California     12 = Guerrero         22 = Querétaro
3 = Baja California Sur 13 = Hidalgo         23 = Quintana Roo
4 = Campeche            14 = Jalisco          24 = San Luis Potosí
5 = Chiapas             15 = México           25 = Sinaloa
6 = Chihuahua           16 = Michoacan        26 = Sonora
7 = Distrito Federal    17 = Morelos          27 = Tabasco
8 = Coahuila            18 = Nayarit          28 = Tamaulipas
9 = Colima              19 = Nuevo León       29 = Tlaxcala
10 = Durango            20 = Oaxaca           30 = Veracruz

31 = Yucatán
32 = Zacatecas

Elige un estado: 12
"GUERRERO" Confirmados |Media: 71.47| |Moda: 0| |Mediana: 48| |Varianza: 5480.44| |
Desviación estándar: 74.03|
```

In this second example, we can see a report or total of the death cases in Jalisco.

```
Hola, elige una acción: 2

1 = Todos
2 = Confirmados
3 = Defunciones
4 = Negativos
5 = Sospechosos

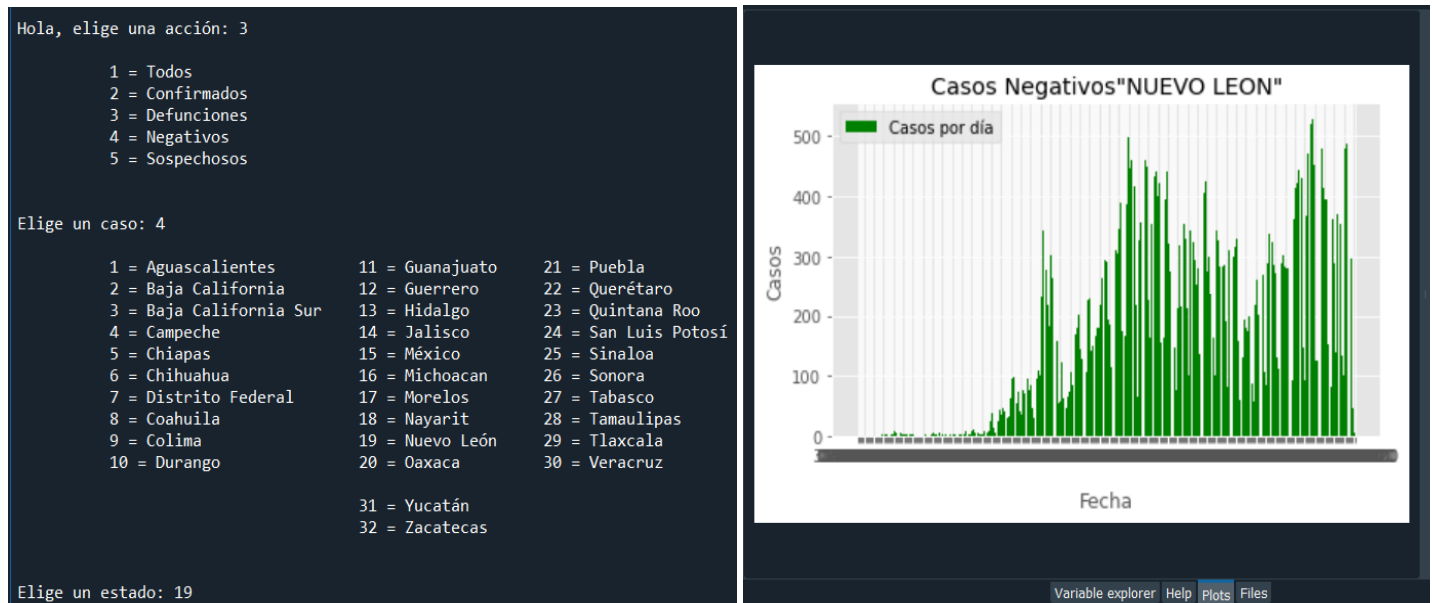
Elige un caso: 3

1 = Aguascalientes      11 = Guanajuato      21 = Puebla
2 = Baja California     12 = Guerrero       22 = Querétaro
3 = Baja California Sur 13 = Hidalgo       23 = Quintana Roo
4 = Campeche            14 = Jalisco        24 = San Luis Potosí
5 = Chiapas             15 = México         25 = Sinaloa
6 = Chihuahua           16 = Michoacan      26 = Sonora
7 = Distrito Federal    17 = Morelos        27 = Tabasco
8 = Coahuila             18 = Nayarit        28 = Tamaulipas
9 = Colima               19 = Nuevo León     29 = Tlaxcala
10 = Durango             20 = Oaxaca         30 = Veracruz

                        31 = Yucatán
                        32 = Zacatecas

Elige un estado: 14
El total de casos Defunciones en "JALISCO" es: 3209
```

In this third example, we can see the graphic of negative cases in Nuevo Leon.



In this third example, we can see a graphic of all cases in Tabasco.

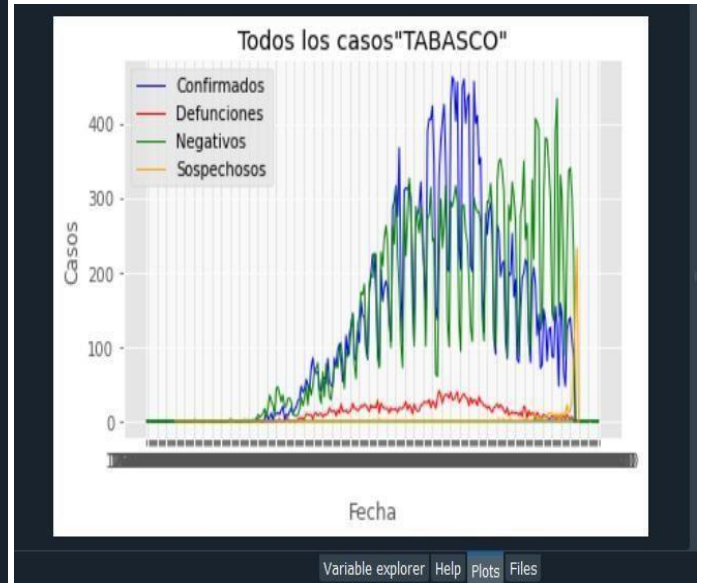
Hola, elige una acción: 3

- 1 = Todos
- 2 = Confirmados
- 3 = Defunciones
- 4 = Negativos
- 5 = Sospechosos

Elige un caso: 1

- | | | |
|-------------------------|-----------------|----------------------|
| 1 = Aguascalientes | 11 = Guanajuato | 21 = Puebla |
| 2 = Baja California | 12 = Guerrero | 22 = Querétaro |
| 3 = Baja California Sur | 13 = Hidalgo | 23 = Quintana Roo |
| 4 = Campeche | 14 = Jalisco | 24 = San Luis Potosí |
| 5 = Chiapas | 15 = México | 25 = Sinaloa |
| 6 = Chihuahua | 16 = Michoacán | 26 = Sonora |
| 7 = Distrito Federal | 17 = Morelos | 27 = Tabasco |
| 8 = Coahuila | 18 = Nayarit | 28 = Tamaulipas |
| 9 = Colima | 19 = Nuevo León | 29 = Tlaxcala |
| 10 = Durango | 20 = Oaxaca | 30 = Veracruz |
| | 31 = Yucatán | |
| | 32 = Zacatecas | |

Elige un estado: 27



Finally, considering that we can consult information continually, when we choose the exit option, the loop will end, so the code execution stops.

```
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#####

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Hola, elige una acción: 4

In [2]: |
```