## Nombre: Celic Gabriel Hernández Archundia

```
In [1]: import pandas as pd
          pd.set_option('display.max_colwidth',None)
          pd.options.display.float_format = '{:,.2f}'.format
In [29]: pd.__version__
Out[29]: '1.4.4'
 In [3]: df = pd.read_csv("Casos_Diarios_Estado_Nacional_Confirmados_20230202.csv")
 Out[4]:
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                                                                                                                                                   5
          5 rows × 1075 columns
          Pequeño ejercicio para entender los for de abajo
```

```
In [34]: df["26-02-2020"] + 1000
Out[34]: 0
                1000
                1000
          2
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          32
                1000
          Name: 26-02-2020, dtype: int64
```

## Variables Generales

```
In [5]: columnas = list(df.columns)
dias = columnas[3:]
min_dia = dias[0]
max_dia = dias[-1]
```

```
In [7]: meses = []
                                      for dia in dias:
                                                       mes = dia[3:]
                                                       if mes not in meses:
                                                                         meses.append(mes) # Añade Los meses al arreglo meses[]
                                      print(meses)
                                      ['02-2020', '03-2020', '04-2020', '05-2020', '06-2020', '07-2020', '08-2020', '09-2020', '10-2020', '11-2020', '12-2020', '01-2020', '08-2020', '08-2020', '08-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', '10-2020', 
                                      021', '02-2021', '03-2021', '04-2021', '05-2021', '06-2021', '07-2021', '08-2021', '09-2021', '10-2021', '11-2021', '12-2021',
                                      '01-2022', '02-2022', '03-2022', '04-2022', '05-2022', '06-2022', '07-2022', '08-2022', '09-2022', '10-2022', '11-2022', '12-20
                                      22', '01-2023', '02-2023']
```

```
1. Número de casos confirmados por cada mes
In [11]: zero = []
         for i in range(0, len(meses)):
            zero.append(0)
         #zero
         # Pero hay una forma más sencilla de hacer esto: Las listas de comprensión.
         zeros1 = [0 for x in range(len(meses))]
         print(zero)
         print(zeros1)
         In [27]: # Vamos a hacer un diccionario
         def casos_por_mes():
             #1ra Forma # resultados = dict(zip(meses,[0 for x in range(len(meses))])) # zip: Te permite trabajar con 2 listas al mismo t
             zeros = [0 for x in range(len(meses))]
             resultados = dict(zip(meses,zeros))
             for dia in dias:
                 resultados[mes] = resultados[mes] + df[dia] # Llamo las columnas por la fecha, pero solo se suman los escalares (df[dia])
             return resultados
         res = casos por mes()
         #res # Imprime el diccionario
         res_df = pd.DataFrame(res)
         pd.concat([ df["nombre"], res_df], axis = 'columns') # Con el axis lo pegamos por columnas, o sea en vertical
         # concat: Sirve para unir dos o más dataframes
Out[27]:
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             BAJA CALIFORNIA
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                   COAHUILA
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                                                                                                                             203
                                                                                                                                   56 ₩
```

## 2. El promedio de casos confirmados por cada mes

```
In [32]: def prom_casos_por_mes():
             #1ra Forma # resultados = dict(zip(meses,[0 for x in range(len(meses))])) # zip: Te permite trabajar con 2 listas al mismo t
             zeros = [0 for x in range(len(meses))]
             resultados = dict(zip(meses,zeros))
             num_dias = dict(zip(meses,zeros))
             for dia in dias:
                 mes = dia[3:]
                 resultados[mes] = resultados[mes] + df[dia]
                 num_dias[mes] = num_dias[mes] + 1
             for key in resultados:
                 resultados[key] = resultados[key] // num_dias[key]
             return resultados
         res = prom_casos_por_mes()
         res_df = pd.DataFrame(res)
         pd.concat([ df["nombre"], res_df], axis = 'columns')
Out[32]:
```

	nombre	02- 2020	03- 2020	04- 2020	05- 2020	06- 2020	07- 2020	08- 2020	09- 2020	10- 2020	05- 2022	06- 2022	07- 2022	08- 2022	09- 2022	10- 2022	11- 2022	12- 2022	01- 2023	02- 2023
0	AGUASCALIENTES	0	1	8	21	50	58	54	54	91	 61	102	294	114	16	3	8	44	105	40
1	BAJA CALIFORNIA	0	6	80	126	149	141	103	93	100	 32	216	529	154	58	29	60	97	60	36
2	BAJA CALIFORNIA SUR	0	1	10	10	35	98	99	84	75	 50	268	273	98	19	8	6	23	28	16
3	CAMPECHE	0	0	4	19	62	78	30	13	11	 7	77	175	20	3	2	13	19	6	2
4	CHIAPAS	0	0	7	64	93	44	20	13	7	 3	21	100	143	57	7	6	24	14	2
5	CHIHUAHUA	0	1	36	73	59	93	97	118	457	 14	163	594	267	40	15	62	74	35	8
6	DISTRITO FEDERAL	0	28	290	760	809	878	863	992	1221	 405	3396	5739	1153	293	120	227	1260	949	401
7	COAHUILA	0	2	14	36	160	278	264	154	276	 9	200	719	183	17	5	12	52	77	21
8	COLIMA	0	0	0	4	15	46	60	46	43	 12	88	254	41	6	4	6	18	45	24
9	DURANGO	0	0	2	14	57	72	78	88	198	 5	92	197	62	5	1	2	17	39	12
10	GUANAJUATO	0	3	9	54	249	438	350	275	280	 29	276	1527	370	40	10	25	132	194	118
11	GUERRERO	0	1	11	76	133	164	117	145	84	 2	55	386	75	12	3	14	34	31	14
12	HIDALGO	0	1	11	55	72	101	114	79	89	 13	155	469	195	31	5	9	53	84	18
13	JALISCO	0	4	11	60	196	227	211	234	239	 49	293	574	227	60	15	23	116	127	42
14	MEXICO	0	16	200	566	721	600	504	487	391	 77	1107	2343	516	95	31	56	381	402	181
15	MICHOACAN	0	0	12	61	145	134	184	181	126	 7	64	326	111	16	5	7	26	74	26
16	MORELOS	0	0	17	50	46	37	37	26	31	 13	61	407	147	24	9	14	80	95	12
17	NAYARIT	0	0	3	17	40	58	47	33	21	 13	99	258	53	9	5	6	26	64	18
18	NUEVO LEON	0	3	11	44	205	409	338	372	427	 74	679	1522	323	66	18	28	142	216	75
19	OAXACA	0	0	6	62	159	165	100	116	109	 26	210	514	178	20	7	10	58	105	29
20	PUEBLA	0	5	25	98	296	324	207	130	123	 18	189	761	241	32	13	26	87	155	87
21	QUERETARO	0	1	4	28	39	62	87	87	162	 17	183	716	166	21	6	12	77	107	51
22	QUINTANA ROO	0	3	28	35	69	135	79	50	39	 28	364	223	28	10	6	64	115	30	14
23	SAN LUIS POTOSI	0	1	4	28	85	277	241	160	189	 26	280	1093	318	61	13	25	96	121	26
24	SINALOA	0	2	40	101	183	141	106	91	89	 76	621	822	194	46	8	8	69	53	14
25	SONORA	0	1	13	118	278	379	234	145	133	 9	218	528	157	45	14	44	81	39	7
26	TABASCO	0	2	39	114	247	354	184	115	70	 8	158	560	61	10	2	16	201	37	5
27	TAMAULIPAS	0	0	18	56	212	346	198	145	107	 18	246	555	143	35	8	14	76	55	17
28	TLAXCALA	0	0	8	31	56	77	52	32	22	 4	37	271	86	8	3	2	22	53	28
29	VERACRUZ	0	1	29	138	243	366	209	158	107	 34	355	887	139	30	12	15	117	144	57
30	YUCATAN	0	2	19	44	95	192	148	115	92	 56	366	396	63	18	15	74	82	22	12
31	ZACATECAS	0	0	3	7	23	61	82	71	126	 4	50	214	105	21	4	7	25	54	28
32	Nacional	2	100	988	2982	5296	6847	5510	4915	5553	 1212	10701	24242	6142	1239	421	918	3737	3635	1441

33 rows × 38 columns

```
In [31]: def prom_casos_por_mes():
                                                                       \#1ra Forma \# resultados = dict(zip(meses,[0 for x in range(len(meses))])) \# zip: Te permite trabajar con 2 listas al mismo trabajar con 3 listas al 
                                                                       zeros = [0 for x in range(len(meses))]
                                                                       resultados = dict(zip(meses,zeros))
                                                                       num_dias = dict(zip(meses,zeros))
                                                                       for dia in dias:
                                                                                             mes = dia[3:]
                                                                                             resultados[mes] = resultados[mes] + df[dia]
                                                                                             num_dias[mes] = num_dias[mes] + 1
                                                                       #for key in resultados:
                                                                                              resultados[key] = resultados[key] / num_dias[key]
                                                                       return resultados, num_dias
                                                   res, n = prom_casos_por_mes()
                                                  print(n)
                                                   pd.concat([ df["nombre"], res_df], axis = 'columns')
                                                  {'02-2020': 4, '03-2020': 31, '04-2020': 30, '05-2020': 31, '06-2020': 30, '07-2020': 31, '08-2020': 31, '09-2020': 30, '10-202
                                                 0': 31, '11-2020': 30, '12-2020': 31, '01-2021': 31, '02-2021': 28, '03-2021': 31, '04-2021': 30, '05-2021': 31, '06-2021': 30, '07-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31, '08-2021': 31
                                                   '12-2022': 31, '01-2023': 31, '02-2023': 1}
```

Out[31]:

	nombre	02- 2020	03- 2020	04- 2020	05-2020	06-2020	07-2020	08-2020	09-2020	10-2020	 05-2022	06-2022	07-2022	08-2022	09-2022	20
0	AGUASCALIENTES	0.00	1.74	8.70	21.61	50.33	58.45	54.19	54.97	91.42	 61.71	102.47	294.55	114.61	16.73	3
1	BAJA CALIFORNIA	0.00	6.03	80.37	126.00	149.53	141.45	103.29	93.77	100.58	 32.97	216.10	529.42	154.45	58.27	29
2	BAJA CALIFORNIA SUR	0.00	1.35	10.40	10.94	35.17	98.68	99.35	84.10	75.77	 50.58	268.47	273.58	98.29	19.80	8
3	CAMPECHE	0.00	0.26	4.20	19.26	62.60	78.03	30.90	13.63	11.03	 7.97	77.80	175.06	20.48	3.10	2
4	CHIAPAS	0.25	0.52	7.30	64.10	93.30	44.35	20.74	13.13	7.87	 3.68	21.23	100.61	143.58	57.30	7
5	CHIHUAHUA	0.00	1.42	36.70	73.77	59.40	93.26	97.55	118.10	457.84	 14.35	163.53	594.68	267.42	40.93	15
6	DISTRITO FEDERAL	0.50	28.35	290.63	760.65	809.93	878.29	863.00	992.47	1,221.94	 405.03	3,396.57	5,739.45	1,153.58	293.10	120
7	COAHUILA	0.25	2.77	14.60	36.10	160.57	278.03	264.52	154.60	276.77	 9.13	200.43	719.39	183.48	17.07	5
8	COLIMA	0.00	0.16	0.93	4.71	15.73	46.29	60.42	46.30	43.35	 12.10	88.13	254.00	41.65	6.87	4
9	DURANGO	0.00	0.48	2.33	14.00	57.43	72.35	78.58	88.00	198.39	 5.58	92.00	197.97	62.00	5.27	1
10	GUANAJUATO	0.00	3.87	9.77	54.58	249.53	438.10	350.45	275.87	280.61	 29.55	276.83	1,527.90	370.32	40.20	10
11	GUERRERO	0.00	1.10	11.67	76.39	133.53	164.87	117.23	145.60	84.58	 2.32	55.93	386.74	75.10	12.70	3
12	HIDALGO	0.25	1.29	11.33	55.03	72.17	101.19	114.13	79.60	89.74	 13.39	155.23	469.42	195.65	31.33	5
13	JALISCO	0.00	4.06	11.27	60.65	196.27	227.45	211.81	234.13	239.52	 49.68	293.13	574.42	227.03	60.03	15
14	MEXICO	0.75	16.71	200.07	566.00	721.57	600.87	504.45	487.33	391.71	 77.19	1,107.13	2,343.32	516.06	95.77	31
15	MICHOACAN	0.00	0.97	12.83	61.32	145.07	134.71	184.42	181.23	126.45	 7.48	64.10	326.29	111.26	16.77	5
16	MORELOS	0.00	0.71	17.87	50.32	46.50	37.68	37.00	26.13	31.55	 13.81	61.70	407.94	147.03	24.73	9
17	NAYARIT	0.00	0.39	3.87	17.23	40.50	58.19	47.77	33.53	21.42	 13.71	99.83	258.39	53.23	9.77	5
18	NUEVO LEON	0.00	3.32	11.20	44.29	205.33	409.77	338.74	372.37	427.61	 74.13	679.33	1,522.55	323.81	66.73	18
19	OAXACA	0.00	0.94	6.10	62.00	159.83	165.32	100.16	116.03	109.52	 26.29	210.13	514.58	178.23	20.33	7
20	PUEBLA	0.00	5.42	25.83	98.90	296.00	324.29	207.58	130.87	123.84	 18.00	189.13	761.26	241.32	32.50	13
21	QUERETARO	0.00	1.23	4.63	28.77	39.77	62.45	87.26	87.10	162.84	 17.03	183.43	716.10	166.00	21.13	6
22	QUINTANA ROO	0.00	3.65	28.73	35.87	69.30	135.71	79.55	50.73	39.65	 28.16	364.80	223.42	28.74	10.87	6
23	SAN LUIS POTOSI	0.00	1.42	4.07	28.39	85.43	277.97	241.61	160.20	189.23	 26.32	280.10	1,093.45	318.32	61.37	13
24	SINALOA	0.00	2.84	40.90	101.26	183.53	141.19	106.10	91.70	89.32	 76.13	621.10	822.26	194.55	46.67	8
25	SONORA	0.00	1.19	13.70	118.10	278.10	379.90	234.97	145.47	133.23	 9.35	218.27	528.84	157.00	45.87	14
26	TABASCO	0.00	2.42	39.30	114.03	247.87	354.55	184.10	115.23	70.90	 8.16	158.63	560.77	61.29	10.40	2
27	TAMAULIPAS	0.00	0.77	18.57	56.16	212.93	346.13	198.68	145.67	107.52	 18.16	246.47	555.94	143.94	35.77	8
28	TLAXCALA	0.00	0.39	8.43	31.26	56.77	77.45	52.29	32.17	22.90	 4.65	37.23	271.35	86.29	8.00	3
29	VERACRUZ	0.00	1.71	29.13	138.58	243.27	366.97	209.19	158.73	107.03	 34.81	355.57	887.35	139.26	30.17	12
30	YUCATAN	0.00	2.42	19.83	44.68	95.07	192.10	148.16	115.07	92.26	 56.58	366.17	396.94	63.87	18.20	15
31	ZACATECAS	0.00	0.81	3.07	7.97	23.87	61.48	82.10	71.77	126.74	 4.48	50.77	214.87	105.03	21.70	4
32	Nacional	2.00	100.71	988.33	2,982.90	5,296.20	6,847.55	5,510.29	4,915.60	5,553.13	 1,212.48	10,701.77	24,242.81	6,142.87	1,239.43	421
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