```
#Profiling
df.shape
(3037, 62)
Validando la cantidad de registros y variables, se confirma que hay 3.037 registros y 62
variables
df.sample(n=10)
           id
                                                                 url
               https://www.tvmaze.com/episodes/1984466/new-ja...
2020
      1984466
951
      2000049
               https://www.tvmaze.com/episodes/2000049/ultima...
      1992679
2153
               https://www.tvmaze.com/episodes/1992679/rhyme-...
628
      1971206
                https://www.tvmaze.com/episodes/1971206/the-ru...
177
      1945144
                https://www.tvmaze.com/episodes/1945144/nobles...
2965
      1998673
                https://www.tvmaze.com/episodes/1998673/louder...
1768
                https://www.tvmaze.com/episodes/1990512/black-...
      1990512
               https://www.tvmaze.com/episodes/2007690/my-bes...
2884
      2007690
734
      1976033
                https://www.tvmaze.com/episodes/1976033/twiste...
                https://www.tvmaze.com/episodes/1972058/red-vs...
1307
      1972058
                                                      name
                                                            season
number
        \
2020
                              Road to Tokyo Dome Night 1
                                                              2020
88.0
951
                                                Episode 2
                                                                 1
2.0
      The Teaspoon Dance / Jaime's Bridge Has Fallen...
2153
                                                                 1
8.0
628
                                               Episode 20
                                                                 1
20.0
177
                                  Blood Contract / Devote
                                                                 1
9.0
2965
                            Stuck In The Middle With You
                                                                 3
1.0
1768
                                           Jatin Must Die
                                                                 1
9.0
2884
                                                 Episode 6
                                                                 1
6.0
734
                                               Episode 22
                                                                 1
22.0
```

type airdate airtime airstamp runtime ... \
2020 regular 2020-12-21 18:30 2020-12-21T09:30:00+00:00 120.0 ...

Shattered

18

1307

6.0

```
951
      regular
                2020 - 12 - 10
                                       2020 - 12 - 10T12:00:00+00:00
                                                                        45.0
                                       2020-12-22T12:00:00+00:00
2153
      regular
                2020-12-22
                                                                        13.0
                2020 - 12 - 07
                               20:00
                                      2020-12-07T12:00:00+00:00
                                                                        60.0
628
      regular
. . .
                2020-12-02
                               00:00
                                       2020-12-03T05:00:00+00:00
                                                                        25.0
177
      regular
. . .
2965
      regular
                2020-12-31
                                       2020-12-31T12:00:00+00:00
                                                                        30.0
1768
      regular
                2020 - 12 - 18
                                       2020-12-18T06:30:00+00:00
                                                                        30.0
2884
                                       2020-12-30T12:00:00+00:00
                                                                        45.0
      regular
                2020-12-30
734
      regular
                2020 - 12 - 08
                               20:00
                                      2020-12-08T12:00:00+00:00
                                                                        45.0
                                       2020 - 12 - 14T12:00:00+00:00
1307
      regular
                2020 - 12 - 14
                                                                        10.0
      embedded.show.network.country.code
2020
                                          NaN
951
                                          NaN
                                          NaN
2153
628
                                          NaN
177
                                           JP
2965
                                          NaN
1768
                                          NaN
                                          NaN
2884
734
                                          NaN
1307
                                          NaN
     _embedded.show.network.country.timezone
2020
                                             NaN
951
                                             NaN
2153
                                             NaN
628
                                             NaN
177
                                     Asia/Tokyo
2965
                                             NaN
1768
                                             NaN
2884
                                             NaN
734
                                             NaN
1307
                                             NaN
      _embedded.show.network.officialSite
2020
                                          NaN
951
                                          NaN
2153
                                          NaN
628
                                          NaN
177
                                         None
2965
                                          NaN
```

```
1768
                                          NaN
2884
                                          NaN
734
                                          NaN
1307
                                          NaN
        embedded.show. links.nextepisode.href
embedded.show.webChannel \
<del>2</del>020
      https://api.tvmaze.com/episodes/2353245
NaN
951
                                              NaN
NaN
2153
                                              NaN
NaN
628
                                              NaN
NaN
177
                                              NaN
NaN
2965
                                              NaN
NaN
1768
                                              NaN
NaN
2884
                                              NaN
NaN
734
                                              NaN
NaN
1307
                                              NaN
NaN
     _embedded.show.image _embedded.show.webChannel.country
                        NaN
2020
                                                              NaN
                        NaN
951
                                                              NaN
2153
                        NaN
                                                              NaN
628
                        NaN
                                                              NaN
177
                        NaN
                                                              NaN
2965
                        NaN
                                                              NaN
1768
                        NaN
                                                              NaN
2884
                        NaN
                                                              NaN
734
                        NaN
                                                              NaN
1307
                        NaN
                                                              NaN
      _embedded.show.dvdCountry.name _embedded.show.dvdCountry.code
2020
                                   NaN
                                                                      NaN
951
                                   NaN
                                                                      NaN
2153
                                   NaN
                                                                      NaN
628
                                   NaN
                                                                      NaN
177
                                   NaN
                                                                      NaN
2965
                                   NaN
                                                                      NaN
1768
                                   NaN
                                                                      NaN
2884
                                   NaN
                                                                      NaN
734
                                   NaN
                                                                      NaN
```

0 non-null

890 non-null

10 image

11 summary

float64

object		
12 rating.average	301 non-null	
float64 13 _links.self.href	3037 non-null	
object	3037 Holl-Hacc	
14 _embedded.show.id	3037 non-null	int64
15 _embedded.show.url	3037 non-null	
object 16 _embedded.show.name	3037 non-null	
object 17 _embedded.show.type	3037 non-null	
object 18 embedded.show.language	3003 non-null	
object 19 _embedded.show.genres	3037 non-null	
object	Josi Holl Hace	
20 _embedded.show.status object	3037 non-null	
21 _embedded.show.runtime float64	2039 non-null	
<pre>22 _embedded.show.averageRuntime</pre>	2877 non-null	
<pre>float64 23 _embedded.show.premiered</pre>	3037 non-null	
object 24 embedded.show.ended	1331 non-null	
object 25 embedded.show.officialSite	2652 non-null	
object 26 _embedded.show.schedule.time	3037 non-null	
object	3037 Holl-Hutt	
27 _embedded.show.schedule.days object	3037 non-null	
28 _embedded.show.rating.average	423 non-null	
float64 29 _embedded.show.weight	3037 non-null	int64
30 embedded.show.network	0 non-null	
float64 31 embedded.show.webChannel.id	2957 non-null	
float 64		
<pre>32 _embedded.show.webChannel.name object</pre>	2957 non-null	
<pre>33 _embedded.show.webChannel.country.name object</pre>	1462 non-null	
34 _embedded.show.webChannel.country.code object	1462 non-null	
35 _embedded.show.webChannel.country.timezone object	1462 non-null	
36 _embedded.show.webChannel.officialSite	1769 non-null	

object 37 embedded.show.dvdCountry	0 non-null
float64	o non nacc
38 _embedded.show.externals.tvrage	56 non-null
float64 39 _embedded.show.externals.thetvdb	2116 non-null
float64	ZIIO NON NACC
40 _embedded.show.externals.imdb	1597 non-null
object 41 _embedded.show.image.medium	2879 non-null
object	2075 Holl Hacc
42 _embedded.show.image.original	2879 non-null
object	2725 non-null
43 _embedded.show.summary object	2723 11011-11011
44 _embedded.show.updated	3037 non-null int64
	2027
<pre>45 _embedded.showlinks.self.href object</pre>	3037 non-null
46 _embedded.showlinks.previousepisode.href	3037 non-null
objec t	
47 image.medium object	1011 non-null
48 image.original	1011 non-null
object	
49 _embedded.show.network.id	206 non-null
float64 50 embedded.show.network.name	206 non-null
object	200
51 _embedded.show.network.country.name	206 non-null
object 52 embedded.show.network.country.code	206 non-null
object	200 Hon Hace
53 _embedded.show.network.country.timezone	206 non-null
<pre>object 54 embedded.show.network.officialSite</pre>	7 non-null
object	/ Holl-Hacc
55 _embedded.showlinks.nextepisode.href	163 non-null
object 56 embedded.show.webChannel	0 non-null
float64	6 Holl-Hacc
57 _embedded.show.image	0 non-null
float64	0 non null
<pre>58 _embedded.show.webChannel.country float64</pre>	0 non-null
59 _embedded.show.dvdCountry.name	27 non-null
object	27 11
<pre>60 _embedded.show.dvdCountry.code object</pre>	27 non-null
61 _embedded.show.dvdCountry.timezone	27 non-null

```
object
dtypes: float64(16), int64(5), object(41)
memory usage: 1.4+ MB
```

Verificamos las variables, la cantidad de valores no nulos y su tipo de dato, donde se detalla que hay varios campos con valores faltantes, por esto revisamos el valor porcentual de los mismos.

```
dfr=pd.DataFrame(round((df.isna().sum()/df.shape[0])*100,2),
columns=['Missings'])
df2 = dfr[dfr['Missings'] >= 1]
df2
```

d†2		
	Missings	
number	2.67	
runtime	7.47	
image	100.00	
summary	70.69	
rating.average	90.09	
_embedded.show.language	1.12	
embedded.show.runtime	32.86	
_embedded.show.averageRuntime	5.27	
embedded.show.ended	56.17	
embedded.show.officialSite	12.68	
embedded.show.rating.average	86.07	
embedded.show.network	100.00	
embedded.show.webChannel.id	2.63	
embedded.show.webChannel.name	2.63	
embedded.show.webChannel.country.name	51.86	
embedded.show.webChannel.country.code	51.86	
embedded.show.webChannel.country.timezone	51.86	
embedded.show.webChannel.officialSite	41.75	
embedded.show.dvdCountry	100.00	
_embedded.show.avacountry embedded.show.externals.tvrage	98.16	
embedded.show.externals.thetvdb	30.33	
_	47.42	
_embedded.show.externals.imdb	5.20	
_embedded.show.image.medium	5.20	
_embedded.show.image.original	10.27	
_embedded.show.summary image.medium	66.71	
•	66.71	
<pre>image.original _embedded.show.network.id</pre>	93.22	
	93.22	
_embedded.show.network.name	93.22	
_embedded.show.network.country.name		
_embedded.show.network.country.code	93.22	
_embedded.show.network.country.timezone	93.22	
_embedded.show.network.officialSite	99.77	
_embedded.showlinks.nextepisode.href	94.63	
_embedded.show.webChannel	100.00	
_embedded.show.image	100.00	
_embedded.show.webChannel.country	100.00	

```
_embedded.show.dvdCountry.name
                                                  99.11
embedded.show.dvdCountry.code
                                                  99.11
_embedded.show.dvdCountry.timezone
                                                  99.11
df.describe(include='all')
                   id
url \
count
        9.800000e+01
98
unique
                  NaN
98
                       https://www.tvmaze.com/episodes/1979824/sim-
top
                  NaN
fo...
freq
                  NaN
1
mean
        2.018019e+06
NaN
        8.446022e+04
std
NaN
min
        1.939481e+06
NaN
        1.976152e+06
25%
NaN
50%
        1.978707e+06
NaN
75%
        2.033287e+06
NaN
        2.336906e+06
max
NaN
                                       number
                                                            airdate
               name
                                                   type
                          season
airtime
         \
                 98
                       98.000000
                                    98.000000
                                                     98
                                                                  98
count
98
unique
                 92
                             NaN
                                          NaN
                                                      1
                                                                   1
15
top
        Episode 21
                             NaN
                                          NaN
                                                regular
                                                         2020-12-01
freq
                  2
                             NaN
                                          NaN
                                                     98
                                                                  98
64
                      208.081633
                                                                 NaN
mean
               NaN
                                    25.612245
                                                    NaN
NaN
std
                NaN
                      613.949420
                                    48.059378
                                                    NaN
                                                                 NaN
NaN
                NaN
                        1.000000
                                     1.000000
                                                                 NaN
min
                                                    NaN
NaN
25%
                NaN
                        1.000000
                                     4.250000
                                                    NaN
                                                                 NaN
NaN
50%
                NaN
                        1.000000
                                    11.000000
                                                    NaN
                                                                 NaN
```

```
NaN
75%
                NaN
                         2.000000
                                      21.750000
                                                       NaN
                                                                    NaN
NaN
                NaN
                      2020.000000
                                     328.000000
                                                       NaN
                                                                    NaN
max
NaN
                            airstamp
                                         runtime
                                                         \
                                        93.00000
count
                                  98
                                  20
unique
                                              NaN
         2020 - 12 - 01T12:00:00+00:00
top
                                              NaN
freq
                                  64
                                              NaN
                                                   . . .
                                 NaN
                                        32.11828
mean
std
                                 NaN
                                        22.96777
                                 NaN
                                         5.00000
min
25%
                                 NaN
                                        13.00000
50%
                                 NaN
                                        26.00000
                                                    . . .
75%
                                        45.00000
                                 NaN
                                 NaN
                                       120.00000
max
                                                   . . .
        embedded.show.network.country.code
                                                  \
count
                                              13
                                              7
unique
top
                                             RU
freq
                                               3
mean
                                            NaN
std
                                            NaN
                                            NaN
min
25%
                                            NaN
50%
                                            NaN
75%
                                            NaN
max
                                            NaN
       embedded.show.network.country.timezone
count
                                                 13
                                                  7
unique
                                   Asia/Kamchatka
top
freq
mean
                                                NaN
std
                                                NaN
min
                                                NaN
25%
                                                NaN
50%
                                                NaN
75%
                                                NaN
                                                NaN
max
         _embedded.show.network.officialSite
count
                                            0.0
unique
                                            NaN
top
                                            NaN
freq
                                            NaN
```

```
NaN
mean
std
                                          NaN
                                          NaN
min
25%
                                          NaN
                                          NaN
50%
75%
                                          NaN
                                          NaN
max
          embedded.show. links.nextepisode.href
_embedded.show.webChannel \
                                                5
count
0.0
                                                 5
unique
NaN
        https://api.tvmaze.com/episodes/2309426
top
NaN
freq
                                                 1
NaN
mean
                                              NaN
NaN
std
                                              NaN
NaN
min
                                              NaN
NaN
25%
                                              NaN
NaN
50%
                                              NaN
NaN
75%
                                              NaN
NaN
                                              NaN
max
NaN
       embedded.show.image embedded.show.webChannel.country \
count
                         0.0
                                                             0.0
unique
                         NaN
                                                             NaN
                         NaN
                                                             NaN
top
                                                             NaN
freq
                         NaN
                         NaN
                                                             NaN
mean
std
                         NaN
                                                             NaN
min
                         NaN
                                                             NaN
25%
                         NaN
                                                             NaN
50%
                                                             NaN
                         NaN
75%
                         NaN
                                                             NaN
                         NaN
                                                             NaN
max
        embedded.show.dvdCountry.name
embedded.show.dvdCountry.code \
count
                                      1
```

1

unique	1	1
top	Japan	JP
freq	1	1
mean	NaN	NaN
std	NaN	NaN
min	NaN	NaN
25%	NaN	NaN
50%	NaN	NaN
75%	NaN	NaN
max	NaN	NaN

	_embedded.show.dvdCountry.timezone
count	1
unique	1
top	Asia/Tokyo
freq	1
mean	NaN
std	NaN
min	NaN
25%	NaN
50%	NaN
75%	NaN
max	NaN

[11 rows x 62 columns]

A nivel general podemos observar el comportamiento estadistico de cada una de las variables