RASPAGEM DE DADOS - BRASILEIRÃO 2023

Por: Leandro Dias Vieira

- Instalando bibliotecas

In [63]:
```
!pip install Beautifulsoup4
```

```
Requirement already satisfied: Beautifulsoup4 in /usr/local/lib/python3.10/dist-pa
ckages (4.11.2)
Requirement already satisfied: soupsieve>1.2 in /usr/local/lib/python3.10/dist-pac
kages (from Beautifulsoup4) (2.5)
```

In [64]:
```
!pip install requests
```

```
Requirement already satisfied: requests in /usr/local/lib/python3.10/dist-packages
(2.31.0)
Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.
10/dist-packages (from requests) (3.3.2)
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.10/dist-pack
ages (from requests) (3.6)
Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.10/dis
t-packages (from requests) (2.0.7)
Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.10/dis
t-packages (from requests) (2023.11.17)
```

- Importando Bibliotecas

In [65]:
```
import requests
from bs4 import BeautifulSoup
import pandas as pd
import numpy as np
```

- Pegando o Link

In [66]:
```
url = "https://www.espn.com.br/futebol/classificacao/_/liga/bra.1"
```

- Passando parametros para acessar site

In [67]:
```
headers = {"User-Agent" : "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/53
```

- Testando requisicao

```
In [68]: requisicao = requests.get(url, headers = headers)
```

```
In [69]: print(requisicao)
```

```
<Response [200]>
```

```
In [70]: ## print(requisicao.text)
```

- Parseando o site

```
In [71]: site = BeautifulSoup(requisicao.text, "html.parser")
```

- Função Prettify(), para arrumar HTML e Concatenar

```
In [72]: site2 = site.prettify()
```

```
In [73]: ## print(site2)
```

Importando a primeira tabela

- Encontrando a tag da primeira tabela

```
In [74]: tabela = site.find("table")
```

```
In [75]: print(tabela)
```

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er-collapse:collapse;border-spacing:0"><colgroup class="Table__Colgroup"><col clas
s="Table__Column"/></colgroup><thead class="Table__header-group Table__THEAD"><tr
class="Table__sub-header Table__TR Table__even"><th class="subHeader__item--conten
t Table__TH" title=""><span class="fw-medium w-100 dib subHeader__item--content" t
itle="2023">2023</span></th></tr></thead><tbody class="Table__TBODY"><tr class="Ta
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AQABAIAAAAAAAP///yH5BAEAAAAALAAAAAABAAEAAAIBRAA7" title="PAL"/></a></span><span cl
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class="hide-mobile"><a class="AnchorLink" data-clubhouse-uid="s:600~t:2029" href
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</a></span><span class="hide-mobile"><a class="AnchorLink" data-clubhouse-uid="s:6
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r data-clubhouse-uid="s:600~t:7632" style="text-decoration:none" title="Atlético-M
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></a></span><span class="hide-mobile"><a class="AnchorLink" data-clubhouse-uid="s:
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an class="hide-mobile"><a class="AnchorLink" data-clubhouse-uid="s:600~t:3458" hre
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t-decoration:none" title="Fortaleza">FOR</abbr></a></span><span class="hide-mobil
e"><a class="AnchorLink" data-clubhouse-uid="s:600~t:6272" href="/futebol/time/_/i
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an><span class="pr4 TeamLink__Logo"><a class="AnchorLink" data-clubhouse-uid="s:60
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s="dn show-mobile"><a class="AnchorLink" data-clubhouse-uid="s:600~t:2026" href="/
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026" style="text-decoration:none" title="São Paulo">SAO</abbr></a></span><span cla
```

ss="hide-mobile"><a class="AnchorLink" data-clubhouse-uid="s:600~t:2026" href="/fu
tebol/time/_/id/2026/sao-paulo" tabindex="0">São Paulo</a></span></div></td></tr><
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I"/></a></span><span class="dn show-mobile"><a class="AnchorLink" data-clubhouse-u
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r></a></span><span class="hide-mobile"><a class="AnchorLink" data-clubhouse-uid
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title="COR"/></a></span><span class="dn show-mobile"><a class="AnchorLink" data-cl
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ans">COR</abbr></a></span><span class="hide-mobile"><a class="AnchorLink" data-clu
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n:none" title="Cruzeiro">CRU</abbr></a></span><span class="hide-mobile"><a class
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-mobile"><a class="AnchorLink" data-clubhouse-uid="s:600~t:3454" href="/futebol/ti
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N"/></a></span><span class="dn show-mobile"><a class="AnchorLink" data-clubhouse-u
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le="GOI"/></a></span><span class="dn show-mobile"><a class="AnchorLink" data-clubh
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br></a></span><span class="hide-mobile"><a class="AnchorLink" data-clubhouse-uid
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e="CFC"/></a></span><span class="dn show-mobile"><a class="AnchorLink" data-clubho
use-uid="s:600~t:3456" href="/futebol/time/_/id/3456/coritiba" tabindex="0"><abbr
data-clubhouse-uid="s:600~t:3456" style="text-decoration:none" title="Coritiba">CF
C</abbr></a></span><span class="hide-mobile"><a class="AnchorLink" data-clubhouse-
uid="s:600~t:3456" href="/futebol/time/_/id/3456/coritiba" tabindex="0">Coritiba</
a></span></div></td></tr><tr class="filled Table__TR Table__TR--sm Table__even" da
ta-idx="19"><td class="Table__TD"><div class="team-link flex items-center clr-gray
-03"><span class="team-position ml2 pr3">20</span><span class="pr4 TeamLink__Log
o"><a class="AnchorLink" data-clubhouse-uid="s:600~t:6154" href="/futebol/time/_/i
d/6154/america-mg" tabindex="0"><img alt="AMG" class="Image Logo Logo__sm" data-mp
type="image" src="data:image/gif;base64,R0lGODlhAQABAIAAAAAAAP///yH5BAEAAAAALAAAAA
ABAAEAAAIBRAA7" title="AMG"/></a></span><span class="dn show-mobile"><a class="Anc
horLink" data-clubhouse-uid="s:600~t:6154" href="/futebol/time/_/id/6154/america-m
g" tabindex="0"><abbr data-clubhouse-uid="s:600~t:6154" style="text-decoration:non
e" title="América-MG">AMG</abbr></a></span><span class="hide-mobile"><a class="Anc
horLink" data-clubhouse-uid="s:600~t:6154" href="/futebol/time/_/id/6154/america-m
g" tabindex="0">América-MG</a></span></div></td></tr></tbody></table>
```

- Criando DataFrame

In [76]:

```
df = pd.DataFrame(columns=["Time"])
```

In [77]:

```
df
```

Out[77]:

Time

- Fazendo a Inserção das Linhas

In [78]:

```
for linha in tabela.tbody.find_all("tr"):
  for coluna in linha.find_all("td"):
    for div in coluna.find_all("div"):
      span = div.find("span", class_ ="hide-mobile")
      nometime = span.find_all("a")
    if (nometime != []):
      time = nometime[0].text.strip(" ")
      df = pd.concat([df, pd.DataFrame.from_records([{"Time": time}])])
```

In [79]:

```
df
```

Out[79]:

	Time
0	Palmeiras
0	Grêmio
0	Atlético-MG
0	Flamengo
0	Botafogo
0	Red Bull Bragantino
0	Fluminense
0	Athletico-PR
0	Internacional
0	Fortaleza
0	São Paulo
0	Cuiabá
0	Corinthians
0	Cruzeiro
0	Vasco da Gama
0	Bahia
0	Santos
0	Goiás
0	Coritiba
0	América-MG

Importando a segunda tabela

- Encontrando a tag da segunda tabela

In [80]:

```
tabela2 = site.find("table", class_="Table Table--align-right")
```

In [81]:

```
print(tabela2)
```

```
<table class="Table Table--align-right" style="border-collapse:collapse;border-spa
cing:0"><colgroup class="Table__Colgroup"><col class="Table__Column"/><col class
="Table__Column"/><col class="Table__Column"/><col class="Table__Column"/><col cla
ss="Table__Column"/><col class="Table__Column"/><col class="Table__Column"/><col c
lass="Table__Column"/></colgroup><thead class="Table__header-group Table__THEAD"><
tr class="Table__sub-header Table__TR Table__even"><th class="tar subHeader__item-
-content Table__TH" title=""><span class="fw-medium w-100 dib tar subHeader__item-
-content underline" title="Jogos"><a class="AnchorLink" href="/futebol/classificac
ao/_/liga/BRA.1/ordenar/gamesplayed/dir/desce" tabindex="0">J</a></span></th><th c
lass="tar subHeader__item--content Table__TH" title=""><span class="fw-medium w-10
0 dib tar subHeader__item--content underline" title="Vitórias"><a class="AnchorLin
k" href="/futebol/classificacao/_/liga/BRA.1/ordenar/wins/dir/desce" tabindex="0">
V</a></span></th><th class="tar subHeader__item--content Table__TH" title=""><span
class="fw-medium w-100 dib tar subHeader__item--content underline" title="empate">
<a class="AnchorLink" href="/futebol/classificacao/_/liga/BRA.1/ordenar/ties/dir/d
esce" tabindex="0">E</a></span></th><th class="tar subHeader__item--content Table_
_TH" title=""><span class="fw-medium w-100 dib tar subHeader__item--content underl
ine" title="Derrotas"><a class="AnchorLink" href="/futebol/classificacao/_/liga/BR
A.1/ordenar/losses/dir/sobe" tabindex="0">D</a></span></th><th class="tar subHeade
r__item--content Table__TH" title=""><span class="fw-medium w-100 dib tar subHeade
r__item--content underline" title="Gols pró"><a class="AnchorLink" href="/futebol/
classificacao/_/liga/BRA.1/ordenar/pointsfor/dir/desce" tabindex="0">GP</a></span>
</th><th class="tar subHeader__item--content Table__TH" title=""><span class="fw-m
edium w-100 dib tar subHeader__item--content underline" title="Gols contra"><a cla
ss="AnchorLink" href="/futebol/classificacao/_/liga/BRA.1/ordenar/pointsagainst/di
r/sobe" tabindex="0">GC</a></span></th><th class="tar subHeader__item--content Tab
le__TH" title=""><span class="fw-medium w-100 dib tar subHeader__item--content und
erline" title="Saldo de gols"><a class="AnchorLink" href="/futebol/classificacao/
_/liga/BRA.1/ordenar/pointdifferential/dir/desce" tabindex="0">SG</a></span></th><
th class="tar subHeader__item--content Table__TH" title=""><span class="fw-medium
w-100 dib tar subHeader__item--content underline" title="Pontos"><a class="AnchorL
ink" href="/futebol/classificacao/_/liga/BRA.1/ordenar/pontos/dir/desce" tabindex
="0">PTS</a></span></th></tr></thead><tbody class="Table__TBODY"><tr class="Table_
_TR Table__TR--sm Table__even" data-idx="0"><td class="Table__TD"><span class="sta
t-cell">38</span></td><td class="Table__TD"><span class="stat-cell">20</span></td>
<td class="Table__TD"><span class="stat-cell">10</span></td><td class="Table__TD">
<span class="stat-cell">8</span></td><td class="Table__TD"><span class="stat-cel
l">64</span></td><td class="Table__TD"><span class="stat-cell">33</span></td><td c
lass="Table__TD"><span class="stat-cell">+31</span></td><td class="Table__TD"><spa
n class="stat-cell">70</span></td></tr><tr class="filled Table__TR Table__TR--sm T
able__even" data-idx="1"><td class="Table__TD"><span class="stat-cell">38</span></
td><td class="Table__TD"><span class="stat-cell">21</span></td><td class="Table__T
D"><span class="stat-cell">5</span></td><td class="Table__TD"><span class="stat-ce
ll">12</span></td><td class="Table__TD"><span class="stat-cell">63</span></td><td
class="Table__TD"><span class="stat-cell">56</span></td><td class="Table__TD"><spa
n class="stat-cell">+7</span></td><td class="Table__TD"><span class="stat-cell">68
</span></td></tr><tr class="Table__TR Table__TR--sm Table__even" data-idx="2"><td
class="Table__TD"><span class="stat-cell">38</span></td><td class="Table__TD"><spa
n class="stat-cell">19</span></td><td class="Table__TD"><span class="stat-cell">9
</span></td><td class="Table__TD"><span class="stat-cell">10</span></td><td class
="Table__TD"><span class="stat-cell">52</span></td><td class="Table__TD"><span cla
ss="stat-cell">32</span></td><td class="Table__TD"><span class="stat-cell">+20</sp
an></td><td class="Table__TD"><span class="stat-cell">66</span></td></tr><tr class
="filled Table__TR Table__TR--sm Table__even" data-idx="3"><td class="Table__TD"><
span class="stat-cell">38</span></td><td class="Table__TD"><span class="stat-cel
l">19</span></td><td class="Table__TD"><span class="stat-cell">9</span></td><td cl
ass="Table__TD"><span class="stat-cell">10</span></td><td class="Table__TD"><span
class="stat-cell">56</span></td><td class="Table__TD"><span class="stat-cell">42</
span></td><td class="Table__TD"><span class="stat-cell">+14</span></td><td class
="Table__TD"><span class="stat-cell">66</span></td></tr><tr class="Table__TR Table
__TR--sm Table__even" data-idx="4"><td class="Table__TD"><span class="stat-cell">3
8</span></td><td class="Table__TD"><span class="stat-cell">18</span></td><td class
="Table__TD"><span class="stat-cell">10</span></td><td class="Table__TD"><span cla
ss="stat-cell">10</span></td><td class="Table__TD"><span class="stat-cell">58</spa
```

n></td><td class="Table__TD"><span class="stat-cell">37</span></td><td class="Tabl
e__TD"><span class="stat-cell">+21</span></td><td class="Table__TD"><span class="s
tat-cell">64</span></td></tr><tr class="filled Table__TR Table__TR--sm Table__eve
n" data-idx="5"><td class="Table__TD"><span class="stat-cell">38</span></td><td cl
ass="Table__TD"><span class="stat-cell">17</span></td><td class="Table__TD"><span
class="stat-cell">11</span></td><td class="Table__TD"><span class="stat-cell">10</
span></td><td class="Table__TD"><span class="stat-cell">49</span></td><td class="T
able__TD"><span class="stat-cell">35</span></td><td class="Table__TD"><span class
="stat-cell">+14</span></td><td class="Table__TD"><span class="stat-cell">62</span
></td></tr><tr class="Table__TR Table__TR--sm Table__even" data-idx="6"><td class
="Table__TD"><span class="stat-cell">38</span></td><td class="Table__TD"><span cla
ss="stat-cell">16</span></td><td class="Table__TD"><span class="stat-cell">8</span
></td><td class="Table__TD"><span class="stat-cell">14</span></td><td class="Table
__TD"><span class="stat-cell">51</span></td><td class="Table__TD"><span class="sta
t-cell">47</span></td><td class="Table__TD"><span class="stat-cell">+4</span></td>
<td class="Table__TD"><span class="stat-cell">56</span></td></tr><tr class="filled
Table__TR Table__TR--sm Table__even" data-idx="7"><td class="Table__TD"><span clas
s="stat-cell">38</span></td><td class="Table__TD"><span class="stat-cell">14</span
></td><td class="Table__TD"><span class="stat-cell">14</span></td><td class="Table
__TD"><span class="stat-cell">10</span></td><td class="Table__TD"><span class="sta
t-cell">51</span></td><td class="Table__TD"><span class="stat-cell">43</span></td>
<td class="Table__TD"><span class="stat-cell">+8</span></td><td class="Table__TD">
<span class="stat-cell">56</span></td></tr><tr class="Table__TR Table__TR--sm Tabl
e__even" data-idx="8"><td class="Table__TD"><span class="stat-cell">38</span></td>
<td class="Table__TD"><span class="stat-cell">15</span></td><td class="Table__TD">
<span class="stat-cell">10</span></td><td class="Table__TD"><span class="stat-cel
l">13</span></td><td class="Table__TD"><span class="stat-cell">46</span></td><td c
lass="Table__TD"><span class="stat-cell">45</span></td><td class="Table__TD"><span
class="stat-cell">+1</span></td><td class="Table__TD"><span class="stat-cell">55</
span></td></tr><tr class="filled Table__TR Table__TR--sm Table__even" data-idx
="9"><td class="Table__TD"><span class="stat-cell">38</span></td><td class="Table_
_TD"><span class="stat-cell">15</span></td><td class="Table__TD"><span class="stat
-cell">9</span></td><td class="Table__TD"><span class="stat-cell">14</span></td><t
d class="Table__TD"><span class="stat-cell">45</span></td><td class="Table__TD"><s
pan class="stat-cell">44</span></td><td class="Table__TD"><span class="stat-cell">
+1</span></td><td class="Table__TD"><span class="stat-cell">54</span></td></tr><tr
class="Table__TR Table__TR--sm Table__even" data-idx="10"><td class="Table__TD"><s
pan class="stat-cell">38</span></td><td class="Table__TD"><span class="stat-cell">
14</span></td><td class="Table__TD"><span class="stat-cell">11</span></td><td clas
s="Table__TD"><span class="stat-cell">13</span></td><td class="Table__TD"><span cl
ass="stat-cell">40</span></td><td class="Table__TD"><span class="stat-cell">38</sp
an></td><td class="Table__TD"><span class="stat-cell">+2</span></td><td class="Tab
le__TD"><span class="stat-cell">53</span></td></tr><tr class="filled Table__TR Tab
le__TR--sm Table__even" data-idx="11"><td class="Table__TD"><span class="stat-cel
l">38</span></td><td class="Table__TD"><span class="stat-cell">14</span></td><td c
lass="Table__TD"><span class="stat-cell">9</span></td><td class="Table__TD"><span
class="stat-cell">15</span></td><td class="Table__TD"><span class="stat-cell">40</
span></td><td class="Table__TD"><span class="stat-cell">39</span></td><td class="T
able__TD"><span class="stat-cell">+1</span></td><td class="Table__TD"><span class
="stat-cell">51</span></td></tr><tr class="Table__TR Table__TR--sm Table__even" da
ta-idx="12"><td class="Table__TD"><span class="stat-cell">38</span></td><td class
="Table__TD"><span class="stat-cell">12</span></td><td class="Table__TD"><span cla
ss="stat-cell">14</span></td><td class="Table__TD"><span class="stat-cell">12</spa
n></td><td class="Table__TD"><span class="stat-cell">47</span></td><td class="Tabl
e__TD"><span class="stat-cell">48</span></td><td class="Table__TD"><span class="st
at-cell">-1</span></td><td class="Table__TD"><span class="stat-cell">50</span></td
></tr><tr class="filled Table__TR Table__TR--sm Table__even" data-idx="13"><td cla
ss="Table__TD"><span class="stat-cell">38</span></td><td class="Table__TD"><span c
lass="stat-cell">11</span></td><td class="Table__TD"><span class="stat-cell">14</s
pan></td><td class="Table__TD"><span class="stat-cell">13</span></td><td class="Ta
ble__TD"><span class="stat-cell">35</span></td><td class="Table__TD"><span class
="stat-cell">32</span></td><td class="Table__TD"><span class="stat-cell">+3</span>
</td><td class="Table__TD"><span class="stat-cell">47</span></td></tr><tr class="T
able__TR Table__TR--sm Table__even" data-idx="14"><td class="Table__TD"><span clas

```
s="stat-cell">38</span></td><td class="Table__TD"><span class="stat-cell">12</span
></td><td class="Table__TD"><span class="stat-cell">9</span></td><td class="Table_
_TD"><span class="stat-cell">17</span></td><td class="Table__TD"><span class="stat
-cell">41</span></td><td class="Table__TD"><span class="stat-cell">51</span></td><
td class="Table__TD"><span class="stat-cell">-10</span></td><td class="Table__TD">
<span class="stat-cell">45</span></td></tr><tr class="filled Table__TR Table__TR--
sm Table__even" data-idx="15"><td class="Table__TD"><span class="stat-cell">38</sp
an></td><td class="Table__TD"><span class="stat-cell">12</span></td><td class="Tab
le__TD"><span class="stat-cell">8</span></td><td class="Table__TD"><span class="st
at-cell">18</span></td><td class="Table__TD"><span class="stat-cell">50</span></td
><td class="Table__TD"><span class="stat-cell">53</span></td><td class="Table__T
D"><span class="stat-cell">-3</span></td><td class="Table__TD"><span class="stat-c
ell">44</span></td></tr><tr class="Table__TR Table__TR--sm Table__even" data-idx
="16"><td class="Table__TD"><span class="stat-cell">38</span></td><td class="Table
__TD"><span class="stat-cell">11</span></td><td class="Table__TD"><span class="sta
t-cell">10</span></td><td class="Table__TD"><span class="stat-cell">17</span></td>
<td class="Table__TD"><span class="stat-cell">39</span></td><td class="Table__TD">
<span class="stat-cell">64</span></td><td class="Table__TD"><span class="stat-cel
l">-25</span></td><td class="Table__TD"><span class="stat-cell">43</span></td></tr
><tr class="filled Table__TR Table__TR--sm Table__even" data-idx="17"><td class="T
able__TD"><span class="stat-cell">38</span></td><td class="Table__TD"><span class
="stat-cell">9</span></td><td class="Table__TD"><span class="stat-cell">11</span>
</td><td class="Table__TD"><span class="stat-cell">18</span></td><td class="Table_
_TD"><span class="stat-cell">36</span></td><td class="Table__TD"><span class="stat
-cell">53</span></td><td class="Table__TD"><span class="stat-cell">-17</span></td>
<td class="Table__TD"><span class="stat-cell">38</span></td></tr><tr class="Table_
_TR Table__TR--sm Table__even" data-idx="18"><td class="Table__TD"><span class="st
at-cell">38</span></td><td class="Table__TD"><span class="stat-cell">8</span></td>
<td class="Table__TD"><span class="stat-cell">6</span></td><td class="Table__TD"><
span class="stat-cell">24</span></td><td class="Table__TD"><span class="stat-cel
l">41</span></td><td class="Table__TD"><span class="stat-cell">73</span></td><td c
lass="Table__TD"><span class="stat-cell">-32</span></td><td class="Table__TD"><spa
n class="stat-cell">30</span></td></tr><tr class="filled Table__TR Table__TR--sm T
able__even" data-idx="19"><td class="Table__TD"><span class="stat-cell">38</span>
</td><td class="Table__TD"><span class="stat-cell">5</span></td><td class="Table__
TD"><span class="stat-cell">9</span></td><td class="Table__TD"><span class="stat-c
ell">24</span></td><td class="Table__TD"><span class="stat-cell">42</span></td><td
class="Table__TD"><span class="stat-cell">81</span></td><td class="Table__TD"><spa
n class="stat-cell">-39</span></td><td class="Table__TD"><span class="stat-cell">2
4</span></td></tr></tbody></table>
```

- Criando outro DF para armazenar resultado

In [82]:

```
df2 = pd.DataFrame(columns=["Jogos", "Vitórias","Empates", "Derrotas",  "Gols Pró",
```

- Fazendo a inserção das linhas

In [83]:

```
for linha in tabela2.tbody.find_all("tr"):
  coluna = linha.find_all("td")
  if (coluna != []):
    jogos = coluna[0].text.strip(' ')
    vitorias = coluna[1].text.strip(' ')
    empates = coluna[2].text.strip(" ")
    derrotas = coluna[3].text.strip(" ")
    gols_pro = coluna[4].text.strip(" ")
    gols_contra = coluna[5].text.strip(" ")
    saldo_de_gols = coluna[6].text.strip(" ")
    pontos = coluna[7].text.strip(" ")
    df2 = pd.concat([df2, pd.DataFrame.from_records([{"Jogos": jogos ,"Vitórias": v
```

In [84]:

```
df2
```

Out[84]:

	Jogos	Vitórias	Empates	Derrotas	Gols Pró	Gols Contra	Saldo de Gols	Pontos
0	38	20	10	8	64	33	+31	70
0	38	21	5	12	63	56	+7	68
0	38	19	9	10	52	32	+20	66
0	38	19	9	10	56	42	+14	66
0	38	18	10	10	58	37	+21	64
0	38	17	11	10	49	35	+14	62
0	38	16	8	14	51	47	+4	56
0	38	14	14	10	51	43	+8	56
0	38	15	10	13	46	45	+1	55
0	38	15	9	14	45	44	+1	54
0	38	14	11	13	40	38	+2	53
0	38	14	9	15	40	39	+1	51
0	38	12	14	12	47	48	-1	50
0	38	11	14	13	35	32	+3	47
0	38	12	9	17	41	51	-10	45
0	38	12	8	18	50	53	-3	44
0	38	11	10	17	39	64	-25	43
0	38	9	11	18	36	53	-17	38
0	38	8	6	24	41	73	-32	30
0	38	5	9	24	42	81	-39	24

Concatenando as tabelas

In [85]:

```
tabela_final = pd.concat([df,df2], axis=1)
tabela_final
```

Out[85]:

	Time	Jogos	Vitórias	Empates	Derrotas	Gols Pró	Gols Contra	Saldo de Gols	Pontos
0	Palmeiras	38	20	10	8	64	33	+31	70
0	Grêmio	38	21	5	12	63	56	+7	68
0	Atlético-MG	38	19	9	10	52	32	+20	66
0	Flamengo	38	19	9	10	56	42	+14	66
0	Botafogo	38	18	10	10	58	37	+21	64
0	Red Bull Bragantino	38	17	11	10	49	35	+14	62
0	Fluminense	38	16	8	14	51	47	+4	56
0	Athletico-PR	38	14	14	10	51	43	+8	56
0	Internacional	38	15	10	13	46	45	+1	55
0	Fortaleza	38	15	9	14	45	44	+1	54
0	São Paulo	38	14	11	13	40	38	+2	53
0	Cuiabá	38	14	9	15	40	39	+1	51
0	Corinthians	38	12	14	12	47	48	-1	50
0	Cruzeiro	38	11	14	13	35	32	+3	47
0	Vasco da Gama	38	12	9	17	41	51	-10	45
0	Bahia	38	12	8	18	50	53	-3	44
0	Santos	38	11	10	17	39	64	-25	43
0	Goiás	38	9	11	18	36	53	-17	38
0	Coritiba	38	8	6	24	41	73	-32	30
0	América-MG	38	5	9	24	42	81	-39	24

Arrumando indices

- Começando por 1, e nao por 0

In [86]:

```
tabela_final.index = np.arange(1, len(tabela_final)+1)
```

In [87]:

```
tabela_final
```

Out[87]:

	Time	Jogos	Vitórias	Empates	Derrotas	Gols Pró	Gols Contra	Saldo de Gols	Pontos
1	Palmeiras	38	20	10	8	64	33	+31	70
2	Grêmio	38	21	5	12	63	56	+7	68
3	Atlético-MG	38	19	9	10	52	32	+20	66
4	Flamengo	38	19	9	10	56	42	+14	66
5	Botafogo	38	18	10	10	58	37	+21	64
6	Red Bull Bragantino	38	17	11	10	49	35	+14	62
7	Fluminense	38	16	8	14	51	47	+4	56
8	Athletico-PR	38	14	14	10	51	43	+8	56
9	Internacional	38	15	10	13	46	45	+1	55
10	Fortaleza	38	15	9	14	45	44	+1	54
11	São Paulo	38	14	11	13	40	38	+2	53
12	Cuiabá	38	14	9	15	40	39	+1	51
13	Corinthians	38	12	14	12	47	48	-1	50
14	Cruzeiro	38	11	14	13	35	32	+3	47
15	Vasco da Gama	38	12	9	17	41	51	-10	45
16	Bahia	38	12	8	18	50	53	-3	44
17	Santos	38	11	10	17	39	64	-25	43
18	Goiás	38	9	11	18	36	53	-17	38
19	Coritiba	38	8	6	24	41	73	-32	30
20	América-MG	38	5	9	24	42	81	-39	24

Ajustando Tipagem dos Dados

In [88]:

```
tabela_final["Jogos"] = pd.to_numeric(tabela_final["Jogos"])
tabela_final["Vitórias"] = pd.to_numeric(tabela_final["Vitórias"])
tabela_final["Empates"] = pd.to_numeric(tabela_final["Empates"])
tabela_final["Derrotas"] = pd.to_numeric(tabela_final["Derrotas"])
tabela_final["Gols Pró"] = pd.to_numeric(tabela_final["Gols Pró"])
tabela_final["Gols Contra"] = pd.to_numeric(tabela_final["Gols Contra"])
tabela_final["Saldo de Gols"] = pd.to_numeric(tabela_final["Saldo de Gols"])
tabela_final["Pontos"] = pd.to_numeric(tabela_final["Pontos"])
tabela_final.dtypes
```

Out[88]:

```
Time              object
Jogos              int64
Vitórias           int64
Empates            int64
Derrotas           int64
Gols Pró           int64
Gols Contra        int64
Saldo de Gols      int64
Pontos             int64
dtype: object
```

Top 5

- Top 5 times com menos vitórias

In [89]:

```
tabela_final.sort_values(by="Vitórias", ascending= True).head(5)
```

Out[89]:

	Time	Jogos	Vitórias	Empates	Derrotas	Gols Pró	Gols Contra	Saldo de Gols	Pontos
20	América-MG	38	5	9	24	42	81	-39	24
19	Coritiba	38	8	6	24	41	73	-32	30
18	Goiás	38	9	11	18	36	53	-17	38
17	Santos	38	11	10	17	39	64	-25	43
14	Cruzeiro	38	11	14	13	35	32	3	47

- Top 5 times com mais empates

In [90]:

```
tabela_final.sort_values(by="Empates", ascending= False).head(5)
```

Out[90]:

	Time	Jogos	Vitórias	Empates	Derrotas	Gols Pró	Gols Contra	Saldo de Gols	Pontos
14	Cruzeiro	38	11	14	13	35	32	3	47
13	Corinthians	38	12	14	12	47	48	-1	50
8	Athletico-PR	38	14	14	10	51	43	8	56
11	São Paulo	38	14	11	13	40	38	2	53
18	Goiás	38	9	11	18	36	53	-17	38

- Top 5 times que mais fizeram gols

In [91]:

```
tabela_final.sort_values(by="Gols Pró", ascending= False).head(5)
```

Out[91]:

	Time	Jogos	Vitórias	Empates	Derrotas	Gols Pró	Gols Contra	Saldo de Gols	Pontos
1	Palmeiras	38	20	10	8	64	33	31	70
2	Grêmio	38	21	5	12	63	56	7	68
5	Botafogo	38	18	10	10	58	37	21	64
4	Flamengo	38	19	9	10	56	42	14	66
3	Atlético-MG	38	19	9	10	52	32	20	66

- Top 5 times com mais saldo de gols

In [92]:

```
tabela_final.sort_values(by="Saldo de Gols", ascending= False).head(5)
```

Out[92]:

	Time	Jogos	Vitórias	Empates	Derrotas	Gols Pró	Gols Contra	Saldo de Gols	Pontos
1	Palmeiras	38	20	10	8	64	33	31	70
5	Botafogo	38	18	10	10	58	37	21	64
3	Atlético-MG	38	19	9	10	52	32	20	66
4	Flamengo	38	19	9	10	56	42	14	66
6	Red Bull Bragantino	38	17	11	10	49	35	14	62