

Untitled

August 5, 2021

```
[1]: import pandas as pd
import pandasql
```

1 IMPORTANDO OS DADOS

```
[2]: df = pd.read_csv('Cópia de Awari Case DS - MoviesOnStreamingPlatforms_updated.
↳csv')
```

2 CHECANDO DADOS

```
[3]: df.head(50)
```

```
[3]:
```

	ID	Title	Year	Age	IMDb	Rotten Tomatoes	\
0	1	Inception	2010	13+	8.8	87%	
1	2	The Matrix	1999	18+	8.7	87%	
2	3	Avengers: Infinity War	2018	13+	8.5	84%	
3	4	Back to the Future	1985	7+	8.5	96%	
4	5	The Good, the Bad and the Ugly	1966	18+	8.8	97%	
5	6	Spider-Man: Into the Spider-Verse	2018	7+	8.4	97%	
6	7	The Pianist	2002	18+	8.5	95%	
7	8	Django Unchained	2012	18+	8.4	87%	
8	9	Raiders of the Lost Ark	1981	7+	8.4	95%	
9	10	Inglourious Basterds	2009	18+	8.3	89%	
10	11	Taxi Driver	1976	18+	8.3	95%	
11	12	3 Idiots	2009	13+	8.4	100%	
12	13	Pan's Labyrinth	2006	18+	8.2	95%	
13	14	Room	2015	18+	8.1	93%	
14	15	Monty Python and the Holy Grail	1975	7+	8.2	97%	
15	16	Once Upon a Time in the West	1968	13+	8.5	95%	
16	17	Indiana Jones and the Last Crusade	1989	13+	8.2	88%	
17	18	Groundhog Day	1993	7+	8.0	96%	
18	19	The King's Speech	2010	18+	8.0	95%	
19	20	Her	2013	18+	8.0	95%	
20	21	There Will Be Blood	2007	18+	8.2	91%	
21	22	The Social Network	2010	13+	7.7	96%	
22	23	Dallas Buyers Club	2013	18+	8.0	93%	

23	24	The Perks of Being a Wallflower	2012	13+	8.0	86%
24	25	Life of Brian	1979	18+	8.1	95%
25	26	Ex Machina	2015	18+	7.7	92%
26	27	Silver Linings Playbook	2012	18+	7.7	92%
27	28	District 9	2009	18+	7.9	90%
28	29	The Irishman	2019	18+	7.9	96%
29	30	Moon	2009	18+	7.9	90%
30	31	Marriage Story	2019	18+	8.0	95%
31	32	Drive	2011	18+	7.8	92%
32	33	Train to Busan	2016	NaN	7.5	94%
33	34	Incredibles 2	2018	7+	7.6	94%
34	35	Dangal	2016	7+	8.4	88%
35	36	Klaus	2019	7+	8.2	94%
36	37	Minority Report	2002	13+	7.6	90%
37	38	Mystic River	2003	18+	7.9	88%
38	39	Like Stars on Earth	2007	7+	8.4	91%
39	40	Ferris Bueller's Day Off	1986	13+	7.8	80%
40	41	Despicable Me	2010	7+	7.6	81%
41	42	Hell or High Water	2016	18+	7.6	97%
42	43	Sin City	2005	18+	8.0	77%
43	44	Ip Man	2008	18+	8.0	85%
44	45	Indiana Jones and the Temple of Doom	1984	7+	7.6	85%
45	46	The Theory of Everything	2014	13+	7.7	79%
46	47	The Pursuit of Happyness	2006	13+	8.0	67%
47	48	Senna	2010	13+	8.5	93%
48	49	Scott Pilgrim vs. the World	2010	13+	7.5	81%
49	50	Magnolia	1999	18+	8.0	83%

	Netflix	Hulu	Prime Video	Disney+	Type	\
0	1	0	0	0	0	
1	1	0	0	0	0	
2	1	0	0	0	0	
3	1	0	0	0	0	
4	1	0	1	0	0	
5	1	0	0	0	0	
6	1	0	1	0	0	
7	1	0	0	0	0	
8	1	0	0	0	0	
9	1	0	0	0	0	
10	1	0	0	0	0	
11	1	0	1	0	0	
12	1	0	0	0	0	
13	1	0	0	0	0	
14	1	0	0	0	0	
15	1	0	1	0	0	
16	1	0	0	0	0	
17	1	0	0	0	0	

18	1	0	0	0	0
19	1	0	0	0	0
20	1	0	0	0	0
21	1	0	0	0	0
22	1	0	0	0	0
23	1	0	0	0	0
24	1	0	0	0	0
25	1	0	0	0	0
26	1	0	0	0	0
27	1	0	0	0	0
28	1	0	0	0	0
29	1	0	0	0	0
30	1	0	0	0	0
31	1	0	1	0	0
32	1	0	1	0	0
33	1	0	0	0	0
34	1	0	0	0	0
35	1	0	0	0	0
36	1	0	0	0	0
37	1	0	0	0	0
38	1	0	0	0	0
39	1	0	0	0	0
40	1	0	0	0	0
41	1	0	0	0	0
42	1	0	0	0	0
43	1	0	0	0	0
44	1	0	0	0	0
45	1	0	0	0	0
46	1	0	0	0	0
47	1	0	0	0	0
48	1	0	0	0	0
49	1	0	0	0	0

	Directors \
0	Christopher Nolan
1	Lana Wachowski,Lilly Wachowski
2	Anthony Russo,Joe Russo
3	Robert Zemeckis
4	Sergio Leone
5	Bob Persichetti,Peter Ramsey,Rodney Rothman
6	Roman Polanski
7	Quentin Tarantino
8	Steven Spielberg
9	Quentin Tarantino
10	Martin Scorsese
11	Rajkumar Hirani
12	Guillermo del Toro

13	Lenny Abrahamson
14	Terry Gilliam,Terry Jones
15	Sergio Leone
16	Steven Spielberg
17	Harold Ramis
18	Tom Hooper
19	Spike Jonze
20	Paul Thomas Anderson
21	David Fincher
22	Jean-Marc Vallée
23	Stephen Chbosky
24	Terry Jones
25	Alex Garland
26	David O. Russell
27	Neill Blomkamp
28	Martin Scorsese
29	Duncan Jones
30	Noah Baumbach
31	Nicolas Winding Refn
32	Sang-ho Yeon
33	Brad Bird
34	Nitesh Tiwari
35	Sergio Pablos,Carlos Martínez López
36	Steven Spielberg
37	Clint Eastwood
38	Aamir Khan,Amole Gupte
39	John Hughes
40	Pierre Coffin,Chris Renaud
41	David Mackenzie
42	Frank Miller,Robert Rodriguez,Quentin Tarantino
43	Wilson Yip
44	Steven Spielberg
45	James Marsh
46	Gabriele Muccino
47	Asif Kapadia
48	Edgar Wright
49	Paul Thomas Anderson

	Genres \
0	Action,Adventure,Sci-Fi,Thriller
1	Action,Sci-Fi
2	Action,Adventure,Sci-Fi
3	Adventure,Comedy,Sci-Fi
4	Western
5	Animation,Action,Adventure,Family,Sci-Fi
6	Biography,Drama,Music,War
7	Drama,Western

8	Action,Adventure
9	Adventure,Drama,War
10	Crime,Drama
11	Comedy,Drama
12	Drama,Fantasy,War
13	Drama,Thriller
14	Adventure,Comedy,Fantasy
15	Western
16	Action,Adventure
17	Comedy,Fantasy,Romance
18	Biography,Drama,History
19	Drama,Romance,Sci-Fi
20	Drama
21	Biography,Drama
22	Biography,Drama
23	Drama,Romance
24	Comedy
25	Drama,Mystery,Sci-Fi,Thriller
26	Comedy,Drama,Romance
27	Action,Sci-Fi,Thriller
28	Biography,Crime,Drama
29	Drama,Mystery,Sci-Fi
30	Comedy,Drama,Romance
31	Crime,Drama
32	Action,Horror,Thriller
33	Animation,Action,Adventure,Comedy,Family,Sci-Fi
34	Action,Biography,Drama,Sport
35	Animation,Adventure,Comedy,Family
36	Action,Crime,Mystery,Sci-Fi,Thriller
37	Crime,Drama,Mystery,Thriller
38	Drama,Family
39	Comedy
40	Animation,Comedy,Family,Fantasy
41	Action,Crime,Drama,Thriller,Western
42	Crime,Thriller
43	Action,Adventure,Biography,Drama,History
44	Action,Adventure
45	Biography,Drama,Romance
46	Biography,Drama
47	Documentary,Biography,Sport
48	Action,Comedy,Fantasy,Romance
49	Drama
	Country \
0	United States,United Kingdom
1	United States
2	United States

3	United States
4	Italy, Spain, West Germany
5	United States
6	United Kingdom, France, Poland, Germany
7	United States
8	United States
9	Germany, United States
10	United States
11	India
12	Mexico, Spain
13	Ireland, Canada, United Kingdom, United States
14	United Kingdom
15	Italy, United States
16	United States
17	United States
18	United Kingdom, United States, Australia
19	United States
20	United States
21	United States
22	United States
23	United States
24	United Kingdom
25	United Kingdom, United States
26	United States
27	South Africa, United States, New Zealand, Canada
28	United States
29	United Kingdom, United States
30	United Kingdom, United States
31	United States
32	South Korea
33	United States
34	India
35	Spain
36	United States
37	United States, Australia
38	India
39	United States
40	United States, France
41	United States
42	United States
43	Hong Kong, China
44	United States
45	United Kingdom, Japan, United States
46	United States
47	United Kingdom, France, United States
48	United States, United Kingdom, Canada, Japan
49	United States

	Language	Runtime
0	English, Japanese, French	148.0
1	English	136.0
2	English	149.0
3	English	116.0
4	Italian	161.0
5	English, Spanish	117.0
6	English, German, Russian	150.0
7	English, German, French, Italian	165.0
8	English, German, Hebrew, Spanish, Arabic, Nepali	115.0
9	English, German, French, Italian	153.0
10	English, Spanish	114.0
11	Hindi, English	170.0
12	Spanish	118.0
13	English	118.0
14	English, French, Latin	91.0
15	Italian, English, Spanish	165.0
16	English, German, Greek, Arabic	127.0
17	English, French, Italian	101.0
18	English	118.0
19	English	126.0
20	English, American Sign Language	158.0
21	English, French	120.0
22	English, Japanese	117.0
23	English	103.0
24	English, Latin	94.0
25	English	108.0
26	English	122.0
27	English, Nyanja, Afrikaans, Zulu, Xhosa, Southern S...	112.0
28	English, Italian, Latin, Spanish, German	209.0
29	English, Spanish	97.0
30	English, Spanish	137.0
31	English, Spanish	100.0
32	Korean, Hawaiian	118.0
33	English	118.0
34	Hindi	161.0
35	English, Saami	96.0
36	English, Swedish	145.0
37	English	138.0
38	Hindi, English	165.0
39	English, German	103.0
40	English	95.0
41	English	102.0
42	English	124.0
43	Cantonese, Mandarin, Japanese	106.0
44	English, Sinhalese, Hindi	118.0

45	English,French	123.0
46	English,Cantonese	117.0
47	English,Portuguese,French,Japanese	106.0
48	English	112.0
49	English,German,French	188.0

```
[4]: df.columns = ['id', 'title', 'year', 'age', 'imdb', 'rotten_tomatoes',
↳ 'netflix', 'hulu', 'prime_video', 'disney+', 'type',
    'directors', 'genres', 'country', 'language', 'runtime']
```

```
[5]: df.head()
```

```
[5]:
```

	id	title	year	age	imdb	rotten_tomatoes	\
0	1	Inception	2010	13+	8.8	87%	
1	2	The Matrix	1999	18+	8.7	87%	
2	3	Avengers: Infinity War	2018	13+	8.5	84%	
3	4	Back to the Future	1985	7+	8.5	96%	
4	5	The Good, the Bad and the Ugly	1966	18+	8.8	97%	

	netflix	hulu	prime_video	disney+	type	directors	\
0	1	0	0	0	0	Christopher Nolan	
1	1	0	0	0	0	Lana Wachowski,Lilly Wachowski	
2	1	0	0	0	0	Anthony Russo,Joe Russo	
3	1	0	0	0	0	Robert Zemeckis	
4	1	0	1	0	0	Sergio Leone	

	genres	country	\
0	Action,Adventure,Sci-Fi,Thriller	United States,United Kingdom	
1	Action,Sci-Fi	United States	
2	Action,Adventure,Sci-Fi	United States	
3	Adventure,Comedy,Sci-Fi	United States	
4	Western	Italy,Spain,West Germany	

	language	runtime
0	English,Japanese,French	148.0
1	English	136.0
2	English	149.0
3	English	116.0
4	Italian	161.0

3 PRODUZIDOS NO BRASIL ORDENADOS POR AVALIAÇÃO

```
[6]: brazil_only_order_by_imdb = pandasql.sqldf('''SELECT Title, IMDb, Country
                                                FROM df
                                                WHERE Country = 'Brasil'
                                                or Country = 'brasil'
                                                or Country = 'BRASIL'
                                                or Country = 'Brazil'
                                                or Country = 'brazil'
                                                or Country = 'BRAZIL'
                                                ORDER by IMDb_
↳DESC''')
```

```
[7]: brazil_only_order_by_imdb.head(20)
```

```
[7]:
```

	title	imdb	country
0	Birth Reborn	8.0	Brazil
1	The Second Mother	7.8	Brazil
2	Boy & the World	7.6	Brazil
3	Old Lord Savanna	7.6	Brazil
4	Cinema, Aspirins and Vultures	7.4	Brazil
5	The Edge of Democracy	7.1	Brazil
6	Forever Chape	7.1	Brazil
7	Laerte-se	6.9	Brazil
8	Good Luck	6.7	Brazil
9	Whindersson Nunes: Adult	6.7	Brazil
10	Ana e Vitória	6.6	Brazil
11	Liss Pereira: Renteniendo Liquidos	6.6	Brazil
12	Hopefuls	6.6	Brazil
13	The Silence of the Sky	6.5	Brazil
14	Mauricio Meirelles: Generating Chaos	6.5	Brazil
15	Rafinha Bastos: Ultimatum	6.5	Brazil
16	A New Capitalism	6.5	Brazil
17	The Man of the Crowd	6.5	Brazil
18	America	6.5	Brazil
19	City of God - 10 Years Later	6.4	Brazil

4 DIRETORES COM MAIOR MÉDIA EM TÍTULOS DISPONÍVEIS NA NETFLIX E PRIMEVIDEO AO MESMO TEMPO

```
[13]: imdbOrderByDirectors = pandasql.sqldf('''SELECT directors,
                                                imdb,
                                                sum(imdb)/count(directors) AS_
↳mean
```

```
FROM df
      WHERE netflix = '1'
      AND prime_video = '1'
      GROUP BY directors
      ORDER BY mean_
↪DESC''')
```

```
[14]: imdbOrderByDirectors.head()
```

```
[14]:
```

	directors	imdb	mean
0	Tom Barton-Humphreys	8.7	8.70
1	Sergio Leone	8.8	8.65
2	Chris Bould	8.6	8.60
3	Roman Polanski	8.5	8.50
4	Kevin Booth,David Johndrow	8.5	8.50

```
[ ]:
```