

[1]:

import numpy as np
import pandas as pd

[2]:

df = pd.read_csv("books.csv")
df

[2]:

	book_id	goodreads_book_id	best_book_id	work_id	books_count	isbn	isbn13	authors	original_publication_year	original_title	...	ratings_cou
0	1	2767052	2767052	2792775	272	439023483	9.780439e+12	Suzanne Collins	2008.0	The Hunger Games	...	47806
1	2	3	3	4640799	491	439554934	9.780440e+12	J.K. Rowling, Mary GrandPré	1997.0	Harry Potter and the Philosopher's Stone	...	46024
2	3	41865	41865	3212258	226	316015849	9.780316e+12	Stephenie Meyer	2005.0	Twilight	...	38668
3	6	11870085	11870085	16827462	226	525478817	9.780525e+12	John Green	2012.0	The Fault in Our Stars	...	23464
4	12	13335037	13335037	13155899	210	62024035	9.780062e+12	Veronica Roth	2011.0	Divergent	...	19035
...
1349	9925	86737	86737	3877968	52	1582349177	9.781582e+12	Mary Hoffman	2002.0	City of Masks	...	120
1350	9937	13010211	13010211	18171867	22	1596435712	9.781596e+12	Caragh M. O'Brien	2012.0	Promised	...	117
1351	9942	16074758	16074758	21869436	18	1442486597	9.781442e+12	Abigail Haas, Abby McDonald	2013.0	Dangerous Girls	...	104
1352	9947	21393526	21393526	40690062	19	62320521	9.780062e+12	Maria Dahvana Headley	2015.0	Magonia	...	125
1353	9955	13065327	13065327	18230950	25	802734375	9.780803e+12	Simone Elkeles	2013.0	Wild Cards	...	139

1354 rows × 23 columns

```
[3]: harry_potter = df[df["title"].str.contains("Harry Potter", case=False, na=False)]
print(harry_potter)
```

	book_id	goodreads_book_id	best_book_id	work_id	books_count	\
1	2	3	3	4640799	491	
6	18	5	5	2402163	376	
8	21	2	2	2809203	307	
9	23	15881	15881	6231171	398	
10	24	6	6	3046572	332	
11	25	136251	136251	2963218	263	
12	27	1	1	41335427	275	
96	422	862041	862041	2962492	76	
613	3753	10	10	21457570	6	
1036	7018	483445	483445	471792	42	
1266	9048	2002	2002	8621948	5	

	isbn	isbn13	authors	\
1	439554934	9.780440e+12	J.K. Rowling, Mary GrandPré	
6	043965548X	9.780440e+12	J.K. Rowling, Mary GrandPré, Rufus Beck	
8	439358078	9.780439e+12	J.K. Rowling, Mary GrandPré	
9	439064864	9.780439e+12	J.K. Rowling, Mary GrandPré	
10	439139600	9.780439e+12	J.K. Rowling, Mary GrandPré	
11	545010225	9.780545e+12	J.K. Rowling, Mary GrandPré	
12	439785960	9.780440e+12	J.K. Rowling, Mary GrandPré	
96	545044251	9.780545e+12	J.K. Rowling	
613	439827604	9.780440e+12	J.K. Rowling	
1036	042519891X	9.780425e+12	David Colbert	
1266	043932162X	9.780439e+12	J.K. Rowling	

	original_publication_year	\
1	1997.0	
6	1999.0	
8	2003.0	
9	1998.0	
10	2000.0	
11	2007.0	
12	2005.0	
96	1998.0	
613	2005.0	
1036	2001.0	
1266	2001.0	

	original_title	... ratings_count	\
1	Harry Potter and the Philosopher's Stone	...	4602479
6	Harry Potter and the Prisoner of Azkaban	...	1832823
8	Harry Potter and the Order of the Phoenix	...	1735368
9	Harry Potter and the Chamber of Secrets	...	1779331
10	Harry Potter and the Goblet of Fire	...	1753043
11	Harry Potter and the Deathly Hallows	...	1746574
12	Harry Potter and the Half-Blood Prince	...	1678823
96	Complete Harry Potter Boxed Set	...	190050
613	Harry Potter Collection (Harry Potter, #1-6)	...	24618
1036	The Magical Worlds of Harry Potter: A Treasury...	...	13820
1266	NaN	...	10736

	ratings_3	ratings_4	ratings_5	\
1	455024	1156318	3011543	
6	166129	509447	1266670	
8	180210	494427	1124806	
9	242345	548266	1065084	
10	151785	494926	1195045	
11	113646	383914	1318227	
12	136333	459028	1161491	
96	7020	30666	164049	
613	946	3891	21048	
1036	3766	3593	6332	
1266	1548	2595	7179	

	image_url	\
1	https://images.gr-assets.com/books/1474154022m...	
6	https://images.gr-assets.com/books/1499277281m...	
8	https://images.gr-assets.com/books/1387141547m...	
9	https://images.gr-assets.com/books/1474169725m...	
10	https://images.gr-assets.com/books/1361482611m...	
11	https://images.gr-assets.com/books/1474171184m...	
12	https://images.gr-assets.com/books/1361039191m...	
96	https://images.gr-assets.com/books/1392579059m...	
613	https://images.gr-assets.com/books/1328867351m...	
1036	https://s.gr-assets.com/assets/nophoto/book/11...	
1266	https://images.gr-assets.com/books/1479775271m...	

	small_image_url
1	https://images.gr-assets.com/books/1474154022s...
6	https://images.gr-assets.com/books/1499277281s...
8	https://images.gr-assets.com/books/1387141547s...
9	https://images.gr-assets.com/books/1474169725s...
10	https://images.gr-assets.com/books/1361482611s...
11	https://images.gr-assets.com/books/1474171184s...
12	https://images.gr-assets.com/books/1361039191s...
96	https://images.gr-assets.com/books/1392579059s...
613	https://images.gr-assets.com/books/1328867351s...
1036	https://s.gr-assets.com/assets/nophoto/book/50...
1266	https://images.gr-assets.com/books/1479775271s...

[11 rows x 23 columns]

```
[4]: cdf = harry_potter[
      [
        "book_id",
        "books_count",
        "title",
        "average_rating",
        "ratings_count",
      ]
    ]
cdf.head(10)
```

```
[4]:
```

	book_id	books_count	title	average_rating	ratings_count
1	2	491	Harry Potter and the Sorcerer's Stone (Harry P...	4.44	4602479
6	18	376	Harry Potter and the Prisoner of Azkaban (Harr...	4.53	1832823
8	21	307	Harry Potter and the Order of the Phoenix (Har...	4.46	1735368
9	23	398	Harry Potter and the Chamber of Secrets (Harry...	4.37	1779331
10	24	332	Harry Potter and the Goblet of Fire (Harry Pot...	4.53	1753043
11	25	263	Harry Potter and the Deathly Hallows (Harry Po...	4.61	1746574
12	27	275	Harry Potter and the Half-Blood Prince (Harry ...	4.54	1678823
96	422	76	Harry Potter Boxset (Harry Potter, #1-7)	4.74	190050
613	3753	6	Harry Potter Collection (Harry Potter, #1-6)	4.73	24618
1036	7018	42	The Magical Worlds of Harry Potter: A Treasury...	3.96	13820

```
[5]: harry_potter_selling = cdf.sort_values(by="ratings_count", ascending=False)
harry_potter_selling
```

```
[5]:
```

	book_id	books_count	title	average_rating	ratings_count	
	1	2	491	Harry Potter and the Sorcerer's Stone (Harry P...	4.44	4602479
	6	18	376	Harry Potter and the Prisoner of Azkaban (Harr...	4.53	1832823
	9	23	398	Harry Potter and the Chamber of Secrets (Harry...	4.37	1779331
	10	24	332	Harry Potter and the Goblet of Fire (Harry Pot...	4.53	1753043
	11	25	263	Harry Potter and the Deathly Hallows (Harry Po...	4.61	1746574
	8	21	307	Harry Potter and the Order of the Phoenix (Har...	4.46	1735368
	12	27	275	Harry Potter and the Half-Blood Prince (Harry ...	4.54	1678823
	96	422	76	Harry Potter Boxset (Harry Potter, #1-7)	4.74	190050
	613	3753	6	Harry Potter Collection (Harry Potter, #1-6)	4.73	24618
	1036	7018	42	The Magical Worlds of Harry Potter: A Treasury...	3.96	13820
	1266	9048	5	Harry Potter Schoolbooks Box Set: Two Classic ...	4.40	10736

```
[6]: average_rating_harry_potter = harry_potter["average_rating"].mean()
average_rating_harry_potter
```

```
[6]: 4.482727272727273
```