

```
In [31]: import numpy as np  
import pandas as pd
```

```
In [32]: data=pd.read_csv("books.csv")  
data
```

Out[32]:

| | book_id | goodreads_book_id | best_book_id | work_id | books_count | isbn | isbn13 | authors | original_publica |
|------|---------|-------------------|--------------|----------|-------------|------------|--------------|-----------------------------|------------------|
| 0 | 1 | 2767052 | 2767052 | 2792775 | 272 | 439023483 | 9.780439e+12 | Suzanne Collins | |
| 1 | 2 | 3 | 3 | 4640799 | 491 | 439554934 | 9.780440e+12 | J.K. Rowling, Mary GrandPré | |
| 2 | 3 | 41865 | 41865 | 3212258 | 226 | 316015849 | 9.780316e+12 | Stephenie Meyer | |
| 3 | 6 | 11870085 | 11870085 | 16827462 | 226 | 525478817 | 9.780525e+12 | John Green | |
| 4 | 12 | 13335037 | 13335037 | 13155899 | 210 | 62024035 | 9.780062e+12 | Veronica Roth | |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| 1349 | 9925 | 86737 | 86737 | 3877968 | 52 | 1582349177 | 9.781582e+12 | Mary Hoffman | |
| 1350 | 9937 | 13010211 | 13010211 | 18171867 | 22 | 1596435712 | 9.781596e+12 | Caragh M. O'Brien | |
| 1351 | 9942 | 16074758 | 16074758 | 21869436 | 18 | 1442486597 | 9.781442e+12 | Abigail Haas, Abby McDonald | |
| 1352 | 9947 | 21393526 | 21393526 | 40690062 | 19 | 62320521 | 9.780062e+12 | Maria Dahvana Headley | |
| 1353 | 9955 | 13065327 | 13065327 | 18230950 | 25 | 802734375 | 9.780803e+12 | Simone Elkeles | |

1354 rows × 23 columns



```
In [33]: data.head()
```

Out[33]:

| | book_id | goodreads_book_id | best_book_id | work_id | books_count | isbn | isbn13 | authors | original_publication_ |
|---|---------|-------------------|--------------|----------|-------------|-----------|--------------|-----------------------------|-----------------------|
| 0 | 1 | 2767052 | 2767052 | 2792775 | 272 | 439023483 | 9.780439e+12 | Suzanne Collins | 20 |
| 1 | 2 | 3 | 3 | 4640799 | 491 | 439554934 | 9.780440e+12 | J.K. Rowling, Mary GrandPré | 19 |
| 2 | 3 | 41865 | 41865 | 3212258 | 226 | 316015849 | 9.780316e+12 | Stephenie Meyer | 20 |
| 3 | 6 | 11870085 | 11870085 | 16827462 | 226 | 525478817 | 9.780525e+12 | John Green | 20 |
| 4 | 12 | 13335037 | 13335037 | 13155899 | 210 | 62024035 | 9.780062e+12 | Veronica Roth | 20 |

5 rows × 23 columns



```
In [34]: # Filter the data to show the Harry Potter books
HarryPotter=data[data['title'].str.contains('Harry Potter',case=False)]
HarryPotter
```

Out[34]:

| | book_id | goodreads_book_id | best_book_id | work_id | books_count | isbn | isbn13 | authors | original_publica |
|-----------|---------|-------------------|--------------|----------|-------------|------------|--------------|--|------------------|
| 1 | 2 | 3 | 3 | 4640799 | 491 | 439554934 | 9.780440e+12 | J.K. Rowling, Mary GrandPré | |
| 6 | 18 | 5 | 5 | 2402163 | 376 | 043965548X | 9.780440e+12 | J.K. Rowling, Mary GrandPré, Rufus Beck | |
| 8 | 21 | 2 | 2 | 2809203 | 307 | 439358078 | 9.780439e+12 | J.K. Rowling, Mary GrandPré | |
| 9 | 23 | 15881 | 15881 | 6231171 | 398 | 439064864 | 9.780439e+12 | J.K. Rowling, Mary GrandPré | |
| 10 | 24 | 6 | 6 | 3046572 | 332 | 439139600 | 9.780439e+12 | J.K. Rowling, Mary GrandPré | |
| 11 | 25 | 136251 | 136251 | 2963218 | 263 | 545010225 | 9.780545e+12 | J.K. Rowling, Mary GrandPré | |
| 12 | 27 | 1 | 1 | 41335427 | 275 | 439785960 | 9.780440e+12 | J.K. Rowling, Mary GrandPré | |
| 96 | 422 | 862041 | 862041 | 2962492 | 76 | 545044251 | 9.780545e+12 | J.K. Rowling | |

| | book_id | goodreads_book_id | best_book_id | work_id | books_count | isbn | isbn13 | authors | original_publica |
|--|---------|-------------------|--------------|---------|-------------|------|------------|--------------|------------------|
| | 613 | 3753 | 10 | 10 | 21457570 | 6 | 439827604 | 9.780440e+12 | J.K. Rowling |
| | 1036 | 7018 | 483445 | 483445 | 471792 | 42 | 042519891X | 9.780425e+12 | David Colbert |
| | 1266 | 9048 | 2002 | 2002 | 8621948 | 5 | 043932162X | 9.780439e+12 | J.K. Rowling |

11 rows × 23 columns

```
In [35]: most_selling=HarryPotter.sort_values(by='ratings_count',ascending=False).head()
print("most selling : ",most_selling[['title','ratings_count']])
print('\n')

print("average rating : ", HarryPotter['average_rating'].mean())
```

```
most selling :
1  Harry Potter and the Sorcerer's Stone (Harry P... 4602479
6  Harry Potter and the Prisoner of Azkaban (Harr... 1832823
9  Harry Potter and the Chamber of Secrets (Harry... 1779331
10 Harry Potter and the Goblet of Fire (Harry Pot... 1753043
11 Harry Potter and the Deathly Hallows (Harry Po... 1746574
```

```
average rating : 4.482727272727273
```