

# jupyter-notebook

April 24, 2024

```
[1]: import pandas as pd
import datetime as dt
import numpy as np
import warnings
warnings.filterwarnings('ignore')
```

```
[2]: df = pd.read_csv('books.csv')
df
```

```
[2]:
```

	book_id	goodreads_book_id	best_book_id	work_id	books_count	\
0	1	2767052	2767052	2792775	272	
1	2	3	3	4640799	491	
2	3	41865	41865	3212258	226	
3	6	11870085	11870085	16827462	226	
4	12	13335037	13335037	13155899	210	
...	...	...	...	...	...	
1349	9925	86737	86737	3877968	52	
1350	9937	13010211	13010211	18171867	22	
1351	9942	16074758	16074758	21869436	18	
1352	9947	21393526	21393526	40690062	19	
1353	9955	13065327	13065327	18230950	25	

  

	isbn	isbn13	authors	\
0	439023483	9.780439e+12	Suzanne Collins	
1	439554934	9.780440e+12	J.K. Rowling, Mary GrandPré	
2	316015849	9.780316e+12	Stephenie Meyer	
3	525478817	9.780525e+12	John Green	
4	62024035	9.780062e+12	Veronica Roth	
...	...	...	...	
1349	1582349177	9.781582e+12	Mary Hoffman	
1350	1596435712	9.781596e+12	Caragh M. O'Brien	
1351	1442486597	9.781442e+12	Abigail Haas, Abby McDonald	
1352	62320521	9.780062e+12	Maria Dahvana Headley	
1353	802734375	9.780803e+12	Simone Elkeles	

  

	original_publication_year	original_title	\
0	2008.0	The Hunger Games	

1	1997.0	Harry Potter and the Philosopher's Stone
2	2005.0	Twilight
3	2012.0	The Fault in Our Stars
4	2011.0	Divergent
...	...	...
1349	2002.0	City of Masks
1350	2012.0	Promised
1351	2013.0	Dangerous Girls
1352	2015.0	Magonia
1353	2013.0	Wild Cards

	...	ratings_count	work_ratings_count	work_text_reviews_count	\
0	...	4780653	4942365	155254	
1	...	4602479	4800065	75867	
2	...	3866839	3916824	95009	
3	...	2346404	2478609	140739	
4	...	1903563	2216814	101023	
...	...	...	...	...	
1349	...	12048	13385	555	
1350	...	11766	12884	1260	
1351	...	10439	12970	2631	
1352	...	12510	13652	2910	
1353	...	13954	15400	1514	

	ratings_1	ratings_2	ratings_3	ratings_4	ratings_5	\
0	66715	127936	560092	1481305	2706317	
1	75504	101676	455024	1156318	3011543	
2	456191	436802	793319	875073	1355439	
3	47994	92723	327550	698471	1311871	
4	36315	82870	310297	673028	1114304	
...	...	...	...	...	...	
1349	314	758	3154	4872	4287	
1350	256	1098	3565	4392	3573	
1351	203	553	2029	4567	5618	
1352	577	1440	3881	4772	2982	
1353	406	965	3331	5038	5660	

	image_url	\
0	<a href="https://images.gr-assets.com/books/1447303603m...">https://images.gr-assets.com/books/1447303603m...</a>	
1	<a href="https://images.gr-assets.com/books/1474154022m...">https://images.gr-assets.com/books/1474154022m...</a>	
2	<a href="https://images.gr-assets.com/books/1361039443m...">https://images.gr-assets.com/books/1361039443m...</a>	
3	<a href="https://images.gr-assets.com/books/1360206420m...">https://images.gr-assets.com/books/1360206420m...</a>	
4	<a href="https://images.gr-assets.com/books/1328559506m...">https://images.gr-assets.com/books/1328559506m...</a>	
...	...	
1349	<a href="https://images.gr-assets.com/books/1294870497m...">https://images.gr-assets.com/books/1294870497m...</a>	
1350	<a href="https://images.gr-assets.com/books/1330546217m...">https://images.gr-assets.com/books/1330546217m...</a>	
1351	<a href="https://images.gr-assets.com/books/1356513050m...">https://images.gr-assets.com/books/1356513050m...</a>	

```

1352 https://images.gr-assets.com/books/1413479866m...
1353 https://images.gr-assets.com/books/1420836321m...

                                small_image_url
0      https://images.gr-assets.com/books/1447303603s...
1      https://images.gr-assets.com/books/1474154022s...
2      https://images.gr-assets.com/books/1361039443s...
3      https://images.gr-assets.com/books/1360206420s...
4      https://images.gr-assets.com/books/1328559506s...
...
1349 https://images.gr-assets.com/books/1294870497s...
1350 https://images.gr-assets.com/books/1330546217s...
1351 https://images.gr-assets.com/books/1356513050s...
1352 https://images.gr-assets.com/books/1413479866s...
1353 https://images.gr-assets.com/books/1420836321s...

[1354 rows x 23 columns]

```

```
[3]: df.tail()
```

```

[3]:      book_id  goodreads_book_id  best_book_id  work_id  books_count  \
1349      9925           86737           86737   3877968           52
1350      9937           13010211          13010211  18171867           22
1351      9942           16074758          16074758  21869436           18
1352      9947           21393526          21393526  40690062           19
1353      9955           13065327          13065327  18230950           25

      isbn  isbn13  authors  \
1349  1582349177  9.781582e+12  Mary Hoffman
1350  1596435712  9.781596e+12  Caragh M. O'Brien
1351  1442486597  9.781442e+12  Abigail Haas, Abby McDonald
1352   62320521  9.780062e+12  Maria Dahvana Headley
1353   802734375  9.780803e+12  Simone Elkeles

      original_publication_year  original_title  ... ratings_count  \
1349                2002.0  City of Masks  ...      12048
1350                2012.0    Promised  ...      11766
1351                2013.0  Dangerous Girls  ...      10439
1352                2015.0    Magonia  ...      12510
1353                2013.0   Wild Cards  ...      13954

      work_ratings_count  work_text_reviews_count  ratings_1  ratings_2  \
1349                13385                555        314        758
1350                12884                1260        256       1098
1351                12970                2631        203        553
1352                13652                2910        577       1440
1353                15400                1514        406        965

```

	ratings_3	ratings_4	ratings_5	\
1349	3154	4872	4287	
1350	3565	4392	3573	
1351	2029	4567	5618	
1352	3881	4772	2982	
1353	3331	5038	5660	

  

	image_url	\
1349	https://images.gr-assets.com/books/1294870497m...	
1350	https://images.gr-assets.com/books/1330546217m...	
1351	https://images.gr-assets.com/books/1356513050m...	
1352	https://images.gr-assets.com/books/1413479866m...	
1353	https://images.gr-assets.com/books/1420836321m...	

  

	small_image_url
1349	https://images.gr-assets.com/books/1294870497s...
1350	https://images.gr-assets.com/books/1330546217s...
1351	https://images.gr-assets.com/books/1356513050s...
1352	https://images.gr-assets.com/books/1413479866s...
1353	https://images.gr-assets.com/books/1420836321s...

[5 rows x 23 columns]

```
[4]: df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1354 entries, 0 to 1353
Data columns (total 23 columns):
#   Column                                Non-Null Count  Dtype
---  -
0   book_id                               1354 non-null   int64
1   goodreads_book_id                     1354 non-null   int64
2   best_book_id                           1354 non-null   int64
3   work_id                               1354 non-null   int64
4   books_count                           1354 non-null   int64
5   isbn                                   1302 non-null   object
6   isbn13                                1310 non-null   float64
7   authors                               1354 non-null   object
8   original_publication_year             1351 non-null   float64
9   original_title                         1302 non-null   object
10  title                                 1354 non-null   object
11  language_code                         1245 non-null   object
12  average_rating                         1354 non-null   float64
13  ratings_count                         1354 non-null   int64
14  work_ratings_count                     1354 non-null   int64
15  work_text_reviews_count                1354 non-null   int64
```

```

16 ratings_1          1354 non-null  int64
17 ratings_2          1354 non-null  int64
18 ratings_3          1354 non-null  int64
19 ratings_4          1354 non-null  int64
20 ratings_5          1354 non-null  int64
21 image_url          1354 non-null  object
22 small_image_url    1354 non-null  object
dtypes: float64(3), int64(13), object(7)
memory usage: 243.4+ KB

```

```

[5]: df['original_publication_year'] = pd.
      ↪to_datetime(df['original_publication_year'])
      print(df['original_publication_year'])

```

```

0      1970-01-01 00:00:00.000002008
1      1970-01-01 00:00:00.000001997
2      1970-01-01 00:00:00.000002005
3      1970-01-01 00:00:00.000002012
4      1970-01-01 00:00:00.000002011
...
1349   1970-01-01 00:00:00.000002002
1350   1970-01-01 00:00:00.000002012
1351   1970-01-01 00:00:00.000002013
1352   1970-01-01 00:00:00.000002015
1353   1970-01-01 00:00:00.000002013
Name: original_publication_year, Length: 1354, dtype: datetime64[ns]

```

```

[6]: df = df[(df.books_count>=0)&(df.ratings_count>=0)&(df.
      ↪work_ratings_count>=0)&(df.work_text_reviews_count>=0)&(df.ratings_1>=0)&(df.
      ↪ratings_2>=0)&(df.ratings_3>=0)&(df.ratings_4>=0)&(df.ratings_5>=0)]
      print(df)

```

```

      book_id  goodreads_book_id  best_book_id  work_id  books_count  \
0           1          2767052      2767052   2792775          272
1           2              3           3    4640799          491
2           3           41865      41865    3212258          226
3           6      11870085    11870085   16827462          226
4          12      13335037    13335037   13155899          210
...      ...      ...      ...      ...      ...
1349      9925          86737      86737    3877968           52
1350      9937      13010211    13010211   18171867           22
1351      9942      16074758    16074758   21869436           18
1352      9947      21393526    21393526   40690062           19
1353      9955      13065327    13065327   18230950           25

      isbn      isbn13      authors  \
0   439023483  9.780439e+12      Suzanne Collins
1   439554934  9.780440e+12  J.K. Rowling, Mary GrandPré

```

2	316015849	9.780316e+12	Stephenie Meyer
3	525478817	9.780525e+12	John Green
4	62024035	9.780062e+12	Veronica Roth
...	...	...	...
1349	1582349177	9.781582e+12	Mary Hoffman
1350	1596435712	9.781596e+12	Caragh M. O'Brien
1351	1442486597	9.781442e+12	Abigail Haas, Abby McDonald
1352	62320521	9.780062e+12	Maria Dahvana Headley
1353	802734375	9.780803e+12	Simone Elkeles

	original_publication_year	original_title \
0	1970-01-01 00:00:00.000002008	The Hunger Games
1	1970-01-01 00:00:00.000001997	Harry Potter and the Philosopher's Stone
2	1970-01-01 00:00:00.000002005	Twilight
3	1970-01-01 00:00:00.000002012	The Fault in Our Stars
4	1970-01-01 00:00:00.000002011	Divergent
...	...	...
1349	1970-01-01 00:00:00.000002002	City of Masks
1350	1970-01-01 00:00:00.000002012	Promised
1351	1970-01-01 00:00:00.000002013	Dangerous Girls
1352	1970-01-01 00:00:00.000002015	Magonia
1353	1970-01-01 00:00:00.000002013	Wild Cards

	...	ratings_count	work_ratings_count	work_text_reviews_count \
0	...	4780653	4942365	155254
1	...	4602479	4800065	75867
2	...	3866839	3916824	95009
3	...	2346404	2478609	140739
4	...	1903563	2216814	101023
...	...	...	...	...
1349	...	12048	13385	555
1350	...	11766	12884	1260
1351	...	10439	12970	2631
1352	...	12510	13652	2910
1353	...	13954	15400	1514

	ratings_1	ratings_2	ratings_3	ratings_4	ratings_5 \
0	66715	127936	560092	1481305	2706317
1	75504	101676	455024	1156318	3011543
2	456191	436802	793319	875073	1355439
3	47994	92723	327550	698471	1311871
4	36315	82870	310297	673028	1114304
...	...	...	...	...	...
1349	314	758	3154	4872	4287
1350	256	1098	3565	4392	3573
1351	203	553	2029	4567	5618
1352	577	1440	3881	4772	2982
1353	406	965	3331	5038	5660

```

                                image_url \
0    https://images.gr-assets.com/books/1447303603m...
1    https://images.gr-assets.com/books/1474154022m...
2    https://images.gr-assets.com/books/1361039443m...
3    https://images.gr-assets.com/books/1360206420m...
4    https://images.gr-assets.com/books/1328559506m...
...
1349 https://images.gr-assets.com/books/1294870497m...
1350 https://images.gr-assets.com/books/1330546217m...
1351 https://images.gr-assets.com/books/1356513050m...
1352 https://images.gr-assets.com/books/1413479866m...
1353 https://images.gr-assets.com/books/1420836321m...

```

```

                                small_image_url
0    https://images.gr-assets.com/books/1447303603s...
1    https://images.gr-assets.com/books/1474154022s...
2    https://images.gr-assets.com/books/1361039443s...
3    https://images.gr-assets.com/books/1360206420s...
4    https://images.gr-assets.com/books/1328559506s...
...
1349 https://images.gr-assets.com/books/1294870497s...
1350 https://images.gr-assets.com/books/1330546217s...
1351 https://images.gr-assets.com/books/1356513050s...
1352 https://images.gr-assets.com/books/1413479866s...
1353 https://images.gr-assets.com/books/1420836321s...

```

[1354 rows x 23 columns]

```
[7]: df = df.drop_duplicates()
      print(df)
```

```

    book_id  goodreads_book_id  best_book_id  work_id  books_count \
0         1         2767052        2767052   2792775         272
1         2             3             3     4640799         491
2         3         41865         41865     3212258         226
3         6        11870085        11870085   16827462         226
4        12        13335037        13335037   13155899         210
...
1349    9925         86737         86737    3877968          52
1350    9937        13010211        13010211   18171867          22
1351    9942        16074758        16074758   21869436          18
1352    9947        21393526        21393526   40690062          19
1353    9955        13065327        13065327   18230950          25

```

```

            isbn      isbn13      authors \
0    439023483  9.780439e+12      Suzanne Collins
1    439554934  9.780440e+12  J.K. Rowling, Mary GrandPré

```

2	316015849	9.780316e+12	Stephenie Meyer
3	525478817	9.780525e+12	John Green
4	62024035	9.780062e+12	Veronica Roth
...	...	...	...
1349	1582349177	9.781582e+12	Mary Hoffman
1350	1596435712	9.781596e+12	Caragh M. O'Brien
1351	1442486597	9.781442e+12	Abigail Haas, Abby McDonald
1352	62320521	9.780062e+12	Maria Dahvana Headley
1353	802734375	9.780803e+12	Simone Elkeles

	original_publication_year	original_title \
0	1970-01-01 00:00:00.000002008	The Hunger Games
1	1970-01-01 00:00:00.000001997	Harry Potter and the Philosopher's Stone
2	1970-01-01 00:00:00.000002005	Twilight
3	1970-01-01 00:00:00.000002012	The Fault in Our Stars
4	1970-01-01 00:00:00.000002011	Divergent
...	...	...
1349	1970-01-01 00:00:00.000002002	City of Masks
1350	1970-01-01 00:00:00.000002012	Promised
1351	1970-01-01 00:00:00.000002013	Dangerous Girls
1352	1970-01-01 00:00:00.000002015	Magonia
1353	1970-01-01 00:00:00.000002013	Wild Cards

	...	ratings_count	work_ratings_count	work_text_reviews_count \
0	...	4780653	4942365	155254
1	...	4602479	4800065	75867
2	...	3866839	3916824	95009
3	...	2346404	2478609	140739
4	...	1903563	2216814	101023
...	...	...	...	...
1349	...	12048	13385	555
1350	...	11766	12884	1260
1351	...	10439	12970	2631
1352	...	12510	13652	2910
1353	...	13954	15400	1514

	ratings_1	ratings_2	ratings_3	ratings_4	ratings_5 \
0	66715	127936	560092	1481305	2706317
1	75504	101676	455024	1156318	3011543
2	456191	436802	793319	875073	1355439
3	47994	92723	327550	698471	1311871
4	36315	82870	310297	673028	1114304
...	...	...	...	...	...
1349	314	758	3154	4872	4287
1350	256	1098	3565	4392	3573
1351	203	553	2029	4567	5618
1352	577	1440	3881	4772	2982
1353	406	965	3331	5038	5660



```

                                image_url \
0      https://images.gr-assets.com/books/1447303603m...
1      https://images.gr-assets.com/books/1474154022m...
2      https://images.gr-assets.com/books/1361039443m...
3      https://images.gr-assets.com/books/1360206420m...
4      https://images.gr-assets.com/books/1328559506m...
...
1349   https://images.gr-assets.com/books/1294870497m...
1350   https://images.gr-assets.com/books/1330546217m...
1351   https://images.gr-assets.com/books/1356513050m...
1352   https://images.gr-assets.com/books/1413479866m...
1353   https://images.gr-assets.com/books/1420836321m...

```

```

                                small_image_url
0      https://images.gr-assets.com/books/1447303603s...
1      https://images.gr-assets.com/books/1474154022s...
2      https://images.gr-assets.com/books/1361039443s...
3      https://images.gr-assets.com/books/1360206420s...
4      https://images.gr-assets.com/books/1328559506s...
...
1349   https://images.gr-assets.com/books/1294870497s...
1350   https://images.gr-assets.com/books/1330546217s...
1351   https://images.gr-assets.com/books/1356513050s...
1352   https://images.gr-assets.com/books/1413479866s...
1353   https://images.gr-assets.com/books/1420836321s...

```

[1354 rows x 23 columns]

```
[8]: df.isnull().sum()
```

```

[8]: book_id          0
    goodreads_book_id  0
    best_book_id      0
    work_id           0
    books_count       0
    isbn             52
    isbn13           44
    authors          0
    original_publication_year  3
    original_title    52
    title            0
    language_code    109
    average_rating    0
    ratings_count     0
    work_ratings_count  0
    work_text_reviews_count  0

```

```

ratings_1          0
ratings_2          0
ratings_3          0
ratings_4          0
ratings_5          0
image_url          0
small_image_url    0
dtype: int64

```

```
[9]: df.dropna(inplace=True)
```

```
[10]: df.isnull().sum()
```

```

[10]: book_id          0
goodreads_book_id     0
best_book_id          0
work_id               0
books_count           0
isbn                 0
isbn13               0
authors              0
original_publication_year 0
original_title        0
title                0
language_code         0
average_rating        0
ratings_count         0
work_ratings_count    0
work_text_reviews_count 0
ratings_1             0
ratings_2             0
ratings_3             0
ratings_4             0
ratings_5             0
image_url             0
small_image_url       0
dtype: int64

```

```

[11]: HarryPotter = df[df['original_title'].str.contains('Harry Potter', case=False)]
print (HarryPotter)

```

	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

	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

	original_publication_year \
1	1970-01-01 00:00:00.000001997
6	1970-01-01 00:00:00.000001999
8	1970-01-01 00:00:00.000002003
9	1970-01-01 00:00:00.000001998
10	1970-01-01 00:00:00.000002000
11	1970-01-01 00:00:00.000002007
12	1970-01-01 00:00:00.000002005
96	1970-01-01 00:00:00.000001998
613	1970-01-01 00:00:00.000002005
1036	1970-01-01 00:00:00.000002001

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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

	work_ratings_count	work_text_reviews_count	ratings_1	ratings_2 \
1	4800065	75867	75504	101676
6	1969375	36099	6716	20413
8	1840548	28685	9528	31577
9	1906199	34172	8253	42251
10	1868642	31084	6676	20210

11	1847395	51942	9363	22245
12	1785676	27520	7308	21516
96	204125	6508	1105	1285
613	26274	882	203	186
1036	15145	267	329	1125

	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	

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613	<a href="https://images.gr-assets.com/books/1328867351m...">https://images.gr-assets.com/books/1328867351m...</a>	
1036	<a href="https://s.gr-assets.com/assets/nophoto/book/11...">https://s.gr-assets.com/assets/nophoto/book/11...</a>	

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[10 rows x 23 columns]

```
[14]: MostSellingBooks = HarryPotter.loc[HarryPotter['best_book_id'].idxmax()]
      print (MostSellingBooks)
```

book\_id

422

```

goodreads_book_id      862041
best_book_id           862041
work_id                2962492
books_count            76
isbn                   545044251
isbn13                 9780545044260.0
authors                J.K. Rowling
original_publication_year 1970-01-01 00:00:00.000001998
original_title         Complete Harry Potter Boxed Set
title                  Harry Potter Boxset (Harry Potter, #1-7)
language_code          eng
average_rating         4.74
ratings_count          190050
work_ratings_count     204125
work_text_reviews_count 6508
ratings_1              1105
ratings_2              1285
ratings_3              7020
ratings_4              30666
ratings_5              164049
image_url              https://images.gr-assets.com/books/1392579059m...
small_image_url        https://images.gr-assets.com/books/1392579059s...
Name: 96, dtype: object

```

```
[15]: AverageRating = HarryPotter['average_rating'].mean()
      print (AverageRating)
```

```
4.4910000000000005
```

```
[ ]:
```