## untitled

## April 24, 2024

```
[1]: import pandas as pd
     import datetime as dt
     import numpy as np
     import warnings
[2]: df = pd.read_csv('books.csv')
[2]:
           book_id
                    goodreads_book_id
                                        best_book_id
                                                         work_id
                                                                  books_count
                               2767052
                                              2767052
                                                         2792775
                                                                           272
     0
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                              13065327
                                                        18230950
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                                             13065327
                              isbn13
                  isbn
                                                            authors
     0
                        9.780439e+12
                                                    Suzanne Collins
            439023483
     1
            439554934
                        9.780440e+12
                                       J.K. Rowling, Mary GrandPré
     2
                        9.780316e+12
            316015849
                                                    Stephenie Meyer
     3
                        9.780525e+12
                                                         John Green
            525478817
     4
             62024035
                        9.780062e+12
                                                      Veronica Roth
           1582349177
                        9.781582e+12
                                                       Mary Hoffman
     1349
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           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
                                                     Simone Elkeles
     1353
            802734375
                        9.780803e+12
           original_publication_year
                                                                    original_title
     0
                               2008.0
                                                                  The Hunger Games
     1
                                       Harry Potter and the Philosopher's Stone
```

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2
                           2005.0
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                                                                     Divergent
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                                                                      Promised
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                           2013.0
                                                              Dangerous Girls
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                                                                       Magonia
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                           2013.0
      ... ratings_count work_ratings_count
                                             work text reviews count
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                                   4942365
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                                   4800065
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                                                 image_url
0
      https://images.gr-assets.com/books/1447303603m...
1
      https://images.gr-assets.com/books/1474154022m...
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      https://images.gr-assets.com/books/1361039443m...
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      https://images.gr-assets.com/books/1360206420m...
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      https://images.gr-assets.com/books/1328559506m...
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      https://images.gr-assets.com/books/1294870497m...
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      https://images.gr-assets.com/books/1330546217m...
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      https://images.gr-assets.com/books/1356513050m...
      https://images.gr-assets.com/books/1413479866m...
1352
```

```
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...
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     https://images.gr-assets.com/books/1360206420s...
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      https://images.gr-assets.com/books/1328559506s...
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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]
```

## [4]: df.tail() 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

```
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
           1970-01-01 00:00:00.000002013
    1351
    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.
      \Rightarrowratings 2>=0)&(df.ratings_3>=0)&(df.ratings_4>=0)&(df.ratings_5>=0)]
     print(df)
                                       best_book_id
                   goodreads_book_id
                                                                books_count
          book_id
                                                       work_id
    0
                              2767052
                                             2767052
                                                       2792775
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                 1
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                 isbn
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                                                          authors \
    0
           439023483 9.780439e+12
                                                  Suzanne Collins
                                    J.K. Rowling, Mary GrandPré
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           316015849 9.780316e+12
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            62024035 9.780062e+12
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          1582349177 9.781582e+12
                                                     Mary Hoffman
          1596435712 9.781596e+12
    1350
                                                Caragh M. O'Brien
```

1354 non-null

object

22 small\_image\_url

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Abigail Haas, Abby McDonald
                   9.781442e+12
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                   9.780062e+12
                                        Maria Dahvana Headley
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                   9.780803e+12
                                                Simone Elkeles
         original_publication_year
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                                                                The Hunger Games
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                                      Harry Potter and the Philosopher's Stone
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                                                                   City of Masks
1350 1970-01-01 00:00:00.000002012
                                                                        Promised
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                                                                 Dangerous Girls
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                                                                      Wild Cards
      ... ratings_count work_ratings_count
                                             work_text_reviews_count
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4
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          https://images.gr-assets.com/books/1328559506s...
          https://images.gr-assets.com/books/1294870497s...
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          https://images.gr-assets.com/books/1356513050s...
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    1352
          https://images.gr-assets.com/books/1420836321s...
    1353
    [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
                              2767052
                                             2767052
                                                        2792775
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                             isbn13
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                                                           authors \
    0
            439023483 9.780439e+12
                                                  Suzanne Collins
    1
            439554934 9.780440e+12 J.K. Rowling, Mary GrandPré
    2
                                                  Stephenie Meyer
            316015849 9.780316e+12
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                       9.781582e+12
                                                     Mary Hoffman
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          1596435712 9.781596e+12
                                                Caragh M. O'Brien
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Abigail Haas, Abby McDonald
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                   9.780062e+12
                                        Maria Dahvana Headley
        62320521
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                   9.780803e+12
                                                Simone Elkeles
         original_publication_year
                                                                  original title \
     1970-01-01 00:00:00.000002008
                                                                The Hunger Games
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                                      Harry Potter and the Philosopher's Stone
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1349 1970-01-01 00:00:00.000002002
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1351 1970-01-01 00:00:00.000002013
                                                                 Dangerous Girls
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1353 1970-01-01 00:00:00.000002013
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      ... ratings_count work_ratings_count
                                             work_text_reviews_count
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    1351 https://images.gr-assets.com/books/1356513050m...
    1352 https://images.gr-assets.com/books/1413479866m...
    1353 https://images.gr-assets.com/books/1420836321m...
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          https://images.gr-assets.com/books/1360206420s...
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          https://images.gr-assets.com/books/1294870497s...
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    1351
    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
                                     0
     best_book_id
     work_id
                                     0
     books_count
                                     0
     isbn
                                    52
     isbn13
                                    44
     authors
                                     0
                                     3
     original_publication_year
                                    52
     original_title
     title
                                     0
                                   109
     language_code
     average_rating
                                     0
                                     0
     ratings_count
                                     0
     work_ratings_count
     work text reviews count
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     ratings_1
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     ratings_3
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     ratings_4
     ratings_5
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     image_url
```

https://images.gr-assets.com/books/1328559506m...

```
dtype: int64
 [9]: df.dropna(inplace=True)
      df.isnull().sum()
 [9]: book_id
                                     0
      goodreads_book_id
                                     0
      best_book_id
                                     0
      work_id
                                     0
                                     0
      books_count
                                     0
      isbn
      isbn13
                                     0
      authors
                                     0
      original_publication_year
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      original_title
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      title
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      language_code
      average_rating
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      ratings_count
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      work_ratings_count
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      work_text_reviews_count
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      ratings_1
                                     0
      ratings_2
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      ratings_3
                                     0
      ratings_4
                                     0
      ratings_5
      image_url
                                     0
      small_image_url
                                     0
      dtype: int64
[10]: harry_potter_df = df[df['original_title'].str.contains('Harry Potter', __
       ⇔case=False)]
      print (harry_potter_df)
            book_id goodreads_book_id best_book_id
                                                         work id books count \
                                                         4640799
                                                                           491
     1
                                      3
                                      5
                                                                           376
     6
                 18
                                                     5
                                                         2402163
     8
                 21
                                      2
                                                     2
                                                         2809203
                                                                           307
     9
                 23
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