

04-rzepinski-to_read_cleaning

January 4, 2019

1 Important

make data has to be run before any cell in this notebook

2 Imports

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

```
In [2]: to_read_df = pd.read_csv("../data/raw/to_read.csv")
        ratings_df = pd.read_csv("../data/raw/ratings.csv")
```

We should use ratings-train.csv(training set of 90% of ratings) normally, but for reproducibility reasons we use full set.

3 Analysis

```
In [3]: merged_df = to_read_df.merge(ratings_df, on=['user_id', 'book_id'],
                                     how='left')
```

```
In [4]: len(merged_df[merged_df['rating'].notna()]) / len(to_read_df)
```

```
Out[4]: 0.0024104173856832165
```

We remove about 0.02% of data, so it has marginal impact.

```
In [5]: len(merged_df[merged_df['rating'].notna()])
```

```
Out[5]: 2200
```

```
In [6]: len(merged_df[merged_df['rating'].isnull()])
```

```
Out[6]: 910505
```

```
In [7]: merged_df.drop('rating', axis=1)
```

```
Out[7]:
```

	user_id	book_id
0	9	8
1	15	398
2	15	275
3	37	7173

4	34	380
5	34	483
6	34	8598
7	34	3581
8	70	498
9	76	4250
10	94	1167
11	29	3508
12	29	4475
13	29	323
14	29	131
15	29	2304
16	105	233
17	113	6756
18	113	7127
19	29	2284
20	29	662
21	116	474
22	116	8697
23	124	682
24	124	5
25	94	4475
26	94	5704
27	94	1847
28	137	362
29	94	1239
...
912675	41259	852
912676	23042	146
912677	52948	6152
912678	52948	6814
912679	28938	9595
912680	50277	1693
912681	50277	8568
912682	10622	4589
912683	21682	3541
912684	53358	195
912685	53358	1065
912686	53358	1028
912687	53358	6107
912688	15447	235
912689	15447	6868
912690	36869	7844
912691	5237	2378
912692	45911	8362
912693	43806	1816
912694	45870	744
912695	45870	1499

912696	10622	2367
912697	42071	1952
912698	42071	7272
912699	7893	793
912700	39374	1049
912701	10492	5180
912702	21879	4827
912703	21879	6642
912704	48192	7773

[912705 rows x 2 columns]