PROOF OF WORKING

AND

PROOF OF UNDERSTANDING

Student: Tosca Voogd
Student number: 500753992

Professor: Rob Loke
Master Digital Driven Business
Amsterdam University of Applied Sciences (AUAS)

SQL

The sql files that belong to this are:
- Summary.sql
- title.sql
- Starring.sql

The output that belongs to this are:
- top50recommendationssummary.csv
- top50recommendationtitle.csv
- top50recommendationsstarring.csv

My favorite movie from the past are Mean Girls and Legally Blonde. The output for Mean Girls was better, so I chose to go for Mean girls.

I put comments in before the commands in the sql files to tell what I am doing. For all the recommender systems, I set the threshold at 0.01. I played with this, but if I wanted to get 50 recommendations, the threshold must be set at 0.01.

Output: top 50 recommendations

1	**mean-girls**	**1**
2	bratz	0.856911
3	broken-bridges	0.808341
4	fatima	0.751072
5	morris-from-america	0.745188
6	high-school-musical-3-senior-year	0.700713
7	horses-of-god	0.693255
8	the-secret-world-of-arrietty	0.690641
9	blue-is-the-warmest-color	0.687022
10	laggies	0.686125

Above, a screenshot of the top 10 recommendations is shown. Originally, Mean Girls is a movie for teen girls so the output (bratz and high school musical for example) looks logical to me.

PYTHON

The python file that belong here is:

- recommender.py

The output file that belongs here is:

- recommendationbasedonmetascore.csv

Also, for the Python part, I chose the movie Mean Girls.

Output: top 50 recommendations

	A	B	C	D
1	movieName	Metascore_w	Author	AuthorHref
2	eragon	10	kitty	
3	alex-rider-operation-stormbreaker	10	kitty	
4	the-lake-house	10	kitty	
5	serenity	10	kitty	
6	i-robot	10	kitty	
7	the-da-vinci-code	10	kitty	
8	the-x-files	10	kitty	
9	titan-ae	10	kitty	
10	the-mummy	10	kitty	
11	galaxy-quest	10	kitty	
12	all-is-lost	10	warrenworld	/user/warrenworld
13	the-godfather-part-ii	10	warrenworld	/user/warrenworld
14	the-dark-knight-rises	10	warrenworld	/user/warrenworld
15	star-wars-episode-i---the-phantom-menace	9	kitty	
16	anchorman-2-the-legend-continues	9	warrenworld	/user/warrenworld
17	the-artist	9	warrenworld	/user/warrenworld
18	indiana-jones-and-the-kingdom-of-the-crystal-skull	9	warrenworld	/user/warrenworld
19	pitch-perfect	9	warrenworld	/user/warrenworld
20	gods-not-dead	9	warrenworld	/user/warrenworld

```
ersus-a-copy
  isetter(ilocs[0], value)
                                              movieName Metascore_w        Author  ... InteractionsThumbDown rel_inc abs_inc
81150                                            eragon          10         kitty  ...                   NaN     inf      10
81953                 alex-rider-operation-stormbreaker          10         kitty  ...                   NaN     inf      10
84622                                    the-lake-house          10         kitty  ...                   NaN     inf      10
95398                                          serenity          10         kitty  ...                   NaN     inf      10
100692                                          i-robot          10         kitty  ...                   NaN     inf      10
110399                                the-da-vinci-code          10         kitty  ...                   NaN     inf      10
113105                                      the-x-files          10         kitty  ...                   NaN     inf      10
134813                                         titan-ae          10         kitty  ...                   NaN     inf      10
136705                                        the-mummy          10         kitty  ...                   NaN     inf      10
138636                                     galaxy-quest          10         kitty  ...                   NaN     inf      10
33423                                       all-is-lost          10   warrenworld  ...                   0.0     inf      10
96220                             the-godfather-part-ii          10   warrenworld  ...                   0.0     inf      10
183717                            the-dark-knight-rises          10   warrenworld  ...                   1.0     inf      10
128454         star-wars-episode-i---the-phantom-menace           9         kitty  ...                   NaN     inf       9
31548                  anchorman-2-the-legend-continues           9   warrenworld  ...                   0.0     inf       9
47572                                        the-artist           9   warrenworld  ...                   0.0     inf       9
147157  indiana-jones-and-the-kingdom-of-the-crystal-s...           9   warrenworld  ...                   0.0     inf       9
173403                                    pitch-perfect           9   warrenworld  ...                   0.0     inf       9
183497                                    gods-not-dead           9   warrenworld  ...                   6.0     inf       9
133432                                      cloverfield           8         kitty  ...                   NaN     inf       8
149786                                     pulp-fiction           8   warrenworld  ...                   0.0     inf       8
166715                                        fast-five           8   warrenworld  ...                   0.0     inf       8
45464                                 the-three-stooges           7   warrenworld  ...                   0.0     inf       7
49835                                      dolphin-tale           7   warrenworld  ...                   0.0     inf       7
133361                national-treasure-book-of-secrets           7   warrenworld  ...                   0.0     inf       7
118682                                         mr-deeds           6         kitty  ...                   NaN     inf       6
41764                                 here-comes-the-boom           6   warrenworld  ...                   0.0     inf       6
148222                                     true-romance           6   warrenworld  ...                   1.0     inf       6
43183                                      end-of-watch           5   warrenworld  ...                   0.0     inf       5
45384                                            bernie           5   warrenworld  ...                   0.0     inf       5
138408                         father-of-the-bride-part-ii           5   warrenworld  ...                   0.0     inf       5
185674                          the-amazing-spider-man-2           3   warrenworld  ...                  10.0     inf       3
39618                                       safe-haven           2   warrenworld  ...                   0.0     inf       2
42393           the-twilight-saga-breaking-dawn---part-2           1   warrenworld  ...                   0.0     inf       1
54985                                     vampires-suck           1   warrenworld  ...                   0.0     inf       1
146053                                     trainspotting           1   warrenworld  ...                   7.0     inf       1
146354                                       waterworld           1   warrenworld  ...                   3.0     inf       1
178193                              a-good-day-to-die-hard           1   warrenworld  ...                   0.0     inf       1
93287                                  war-of-the-worlds          10     patrickd.  ...                   NaN     2.0       5
```

This output is based on the metascore the authors gave on my favorite movie. To make this, Python is used. I did not have any experience with Python so, it took some effort to understand this. But thanks to Google and classmates who helped me out and explained it, I manage to get the outcome and understand the steps I made.

The steps I did:

1. Import the dataset with all the reviews.
2. Made a subset of my favorite movie Mean Girls.
3. Printed the subset so I saw how many reviews there are on Mean Girls.
4. Then with the data.columns.tolist(), I created the same variables for the subset as the userRevies.csv
5. Then I created the recommender dataframe (called recommendation). We want to make a RS based on the Author and the Metascore he or she gave. So first, I used the iterrows() to loop over the subset and create the filters author and metascore.
6. The filters 1 and 2 are made so the recommender dataframe has the movies in it where the same authors gave a higher metascore than on Mean Girls.
7. I made a new dataframe (possible_recommendations) with the outcome of filter1 & filter2 and added the relative increase and abstract increase of the metascores.
8. After that, I appended the possible_recommendations to the recommendation (final recommender dataframe).
9. In the end, I made a top 50 of the recommendations and copied this to a new csv file: recommendationsbasedonmetascore.csv.