**File with my interpretation of the obtained results**

Name: Maurits Knobben
Student number: 500737947

*PostgreSQL*
For the SQL exercise I choose my favorite movie “The wolf of wall street”. I had chosen this movie in the introduction week, but the movie was also in the dataset we received.
The first part of the assignment was to build a recommendation system build on the summary of the movies. After that, you had to build a recommendations system for the same movie based on title and starring. Below I will give an interpretation of the obtained results for each part.

Part 1 – Summary
As already mentioned, this part was about building a recommendation system based on the summaries of all the movies in the dataset. With coding in SQL it was able to get 50 different movies as recommendation. In the csv file is shown that the best recommended movie to see based on the summary is “Elephant” with a score of 0.428285 a “match” with the movie “The wolf of wall street”. Followed by the movie “Diary of a mad black woman” and “Pay it forward”. A score of 0.428285 is not too low, but also not a really high score. So, the conclusion of this recommendation system for the movie “The wolf of wall street” is that there a multiple movie who are recommended based on the summary, but the “match” score isn’t that high so maybe there are better movies to watch.

Part 2 – title
This part was about building a recommendation system based on the title of all the movies in the dataset. With the coding in SQL I did a search for the best recommendations in the dataset for the movie “Wolf of wall street” based on title and then specific for the word “wolf”. I got 7 different movies that are recommended to watch. In the csv file is shown that the best recommended movie is “Brotherhood of the wolf” with a score of 0.599014. followed by the movie “Jin roh the wolf brigade” with a score of 0.327431. In comparison to the recommendation system of the summary there is a high score as recommendation for the movie “Brotherhood of the wolf”. So, the conclusion of this recommendation system is that the movie “Brotherhood of the wolf” is a good recommendation for the movie “The wolf of wall street” based on the title of the movie.

Part 3 – Starring
This part was about building a recommendation system based on the starring of all the movies in the dataset. This recommendation system shows a list of 50 movies as recommended based on the starring of the movie. If you look at the csv file, the score of the recommended movies aren’t that high. The best “match” is the movie “The newton boys” with a score of 0.266913. In comparison to the other two recommendation systems this system has the lowest “match” score.
So, the conclusion of the recommendation system is that the recommendation score based on starring isn’t that high. There are multiple movies who are recommended based on starring, but the “match” score isn’t that high so maybe there are better movies to watch.

*Python*
The next part of the assignment was to build a recommendation system in Python. Therefore, we used the csv file userReviews. For this recommendation system I used a different movie because “the wolf of wall street” wasn’t available in this dataset. For this part I used another movie I like; “the amazing spider man”. First, I created a subset of the reviews of this movie and after that I created a final dataframe.

With a looping I selected all the movies with the selected author but only movies with a higher ranking than the amazing spider man. After that I sort the recommendations in a descending order with first the relative score and then the absolute scores.
If you look at the csv file you can see that the movie “Kingsman the secret service” has the best recommendations. With a relative score of 10 and an absolute score of 9 is this the best recommendation to see. I haven’t watched this movie yet so I definitely will wacth this movie because from the recommendation system it shows that this is the best movie to watch for me.

*Review/retro perspective of building RS*
For me working with SQL and Python was really new for me. I never worked with both tools before, so I was really excited to work with it. In my opinion it was learning a new language because coding is a language on itself. You have to do it over and over to understand what you are doing and why.

The assignment about the movies was a really good one to understand how those tools work. Everyone is using for example Netflix where they also use recommendations for movies you watched before, so it was a real-life example to work with.

Also working with an RPI was new for me. It cost me a lot of time to install it and to make it work which was a little bit frustrating in the beginning. But after trying and trying I got more understanding what to do which gave me a good feeling.

Building the recommendation system was at the end a fun thing to do. As I said I had to try it a lot of times, but when it eventually works it felt great. The scores of the recommendation systems were not that high except for the system based on title, but an explanation could be the movie I had chosen. At the end, the meaning of the assignments was to be able to build an recommendation system and that happened so I am really glad it works and that I have a better understanding what type of coding you have to use to build a system like this. And also from the python recommendation system there came out a movie to watch that I haven’t watched yet, so I am also looking forward to see this movie.