

## Lab7

1. In order to find the three sets of movies, I used the substitute\_you.py program, which retrieved the data and calculated the correlations. I then entered my personal data (Age 21, Male, student) as default data, retrieved the following.

```
User: 323:
-----Top-3-----
1>Taxi Driver <1976>.....5.0
2>Seven <Se7en> <1995>.....5.0
3>Star Wars <1977>.....5.0
-----Bottom-Three-----
1>Jungle2Jungle <1997>.....1.0
2>Murder at 1600 <1997>.....2.0
3>Volcano <1997>.....2.0
```

```
User: 81:
-----Top-3-----
1>Birdcage, The <1996>.....5.0
2>Schindler's List <1993>.....5.0
3>Fugitive, The <1993>.....5.0
-----Bottom-Three-----
1>Grumpier Old Men <1995>.....1.0
2>Beverly Hills Ninja <1997>.....1.0
3>Very Brady Sequel, A <1996>.....1.0
```

```
User: 928:
-----Top-3-----
1>Kull the Conqueror <1997>.....5.0
2>Spawn <1997>.....5.0
3>Monty Python and the Holy Grail <1974>.....5.0
-----Bottom-Three-----
1>Game, The <1997>.....3.0
2>Scream <1996>.....3.0
3>Aliens <1986>.....3.0
```

For my substitute, I selected the user 323. I love Taxi Driver and star wars, but care less for Se7en and the bottom three.

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- For step 2, I used correlation.py to calculate the most and least correlated people to my substitute. The following results were discovered.

```
-----Results for: 323-----
-----Top Five Most Correlated-----
1>88.....+1.0
2>98.....+1.0
3>172.....+1.0
4>323.....+1.0
5>571.....+1.0
-----Top Five Least Correlated-----
1>375.....-0.866025403784
2>93.....-0.878310065654
3>358.....-0.942809041582
4>845.....-1.0
5>855.....-1.0
-----
```

Surprisingly, 2 -1 score were found in the least correlated table, indicating no form of similarity at all.

- For step 3, I used rate.py with the associated person tagged 323. The following results were derived.

```
Top 5 recommendations for films
Santa with Muscles (1996)      Most likely rating:  5.0
Great Day in Harlem, A (1994)  Most likely rating:  5.0
Aiqing wansui (1994)           Most likely rating:  5.0
The Deadly Cure (1996)         Most likely rating:  5.0
Prefontaine (1997)             Most likely rating:  5.0

Bottom 5 recommendations for films
Trainspotting (1996)           Most likely rating:  0
JLG/JLG - autoportrait de d cembre (1994)  Most likely rating:  0
Bird of Prey (1996)            Most likely rating:  0
Leopard Son, The (1996)         Most likely rating:  0
Vertigo (1958)                  Most likely rating:  0
```

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4. I picked Pulp fiction as my top movie, and Monty Python and the Holy Grail as my bottom pick. I plugged these numbers in to the link.py program, and generated the following results.

```
Top 5 most correlated movies:
Critical Care (1997) ( correlation: 1.0 )
Heavy Metal (1981) ( correlation: 1.0 )
Theodore Rex (1995) ( correlation: 1.0 )
Cemetery Man (Dellamorte Dellamore) (1994) ( correlation: 1.0 )
Purple Noon (1960) ( correlation: 1.0 )
Bottom 5 least correlated movies:
Sirens (1994) ( correlation: -1.0 )
Race the Sun (1996) ( correlation: -1.0 )
Children of the Revolution (1996) ( correlation: -1.0 )
Turbulence (1997) ( correlation: -1.0 )
Love & Human Remains (1993) ( correlation: -1.0 )

Least favorite movie: 168|Monty Python and the Holy Grail (1974)
Top 5 most correlated movies:
Rosewood (1997) ( correlation: 1.0 )
Lord of Illusions (1995) ( correlation: 1.0 )
Cemetery Man (Dellamorte Dellamore) (1994) ( correlation: 1.0 )
Once Were Warriors (1994) ( correlation: 1.0 )
Women, The (1939) ( correlation: 1.0 )
Bottom 5 least correlated movies:
In the Bleak Midwinter (1995) ( correlation: -1.0 )
Son in Law (1993) ( correlation: -1.0 )
Blown Away (1994) ( correlation: -1.0 )
Kid in King Arthur's Court, A (1995) ( correlation: -1.0 )
Tales from the Hood (1995) ( correlation: -1.0 )
```

I personally do not like the any of the associated films except for Heavy Metal, but I can see how they could be related based upon the data provided. The movies I selected would appeal to many of the individuals who favored them.