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CS 432-s16

- Below are the three users that are closest to me in terms of age, gender, and occupation, which are 21, Male, and student. I relate to user 259 the most because I agree with the movies that he enjoys which are: "Monty Python's Life of Brian," "The Doors," and "One Flew Over the Cuckoo's Nest." I also agree with disliking the movies "Beautiful Girls" and "Mars Attacks!" but I don't feel that the film "Liar Liar" deserves to be on the bottom three.

```
Z:\CS432\A7>python SubYou.py
-----Similar Users-----
User: 928:
-----Top-Three-----
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
```

```
User: 81:
-----Top-Three-----
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: 259:
-----Top-Three-----
1>Monty Python's Life of Brian <1979>.....5.0
2>Doors, The <1991>.....5.0
3>One Flew Over the Cuckoo's Nest <1975>.....5.0
-----Bottom-Three-----
1>Beautiful Girls <1996>.....2.0
2>Mars Attacks! <1996>.....2.0
3>Liar Liar <1997>.....3.0
```

- When running the correlation program for my substitute user, user 259, I came up with the following results:

```
Z:\CS432\A7>python correlation.py 259
-----Correlation for: user 259-----
-----Top Five Correlated-----
1>140.....+1.0
2>31.....+1.0
3>191.....+1.0
4>208.....+1.0
5>269.....+1.0
-----Bottom Five Correlated-----
1>585.....-1.0
2>866.....-1.0
3>914.....-1.0
4>390.....-1.0
5>512.....-1.0
```

- 3) When I ran the code for computing the ratings for all the films that the substitute me hasn't seen, I got a list for the top five recommendations for films that the substitute me hasn't seen, and the bottom five that my substitute me hasn't seen

```
atria:~/CS432/A7> python ques3.py
/usr/lib/python2.7/dist-packages/scipy/stats/stats.py:2514: RuntimeWarning: invalid value encountered in double_scalars
  r = r_num / r_den
Top 5 recommendations for films
The Deadly Cure (1996)          Most likely rating:  5.0
Entertaining Angels: The Dorothy Day Story (1996)      Most likely rating:  5.0
Hugo Pool (1997)                Most likely rating:  5.0
Great Day in Harlem, A (1994)    Most likely rating:  5.0
They Made Me a Criminal (1939)   Most likely rating:  5.0

Bottom 5 recommendations for films
Maltese Falcon, The (1941)       Most likely rating:  0
Trainspotting (1996)            Most likely rating:  0
JLG/JLG - autoportrait de décembre (1994)            Most likely rating:  0
Bird of Prey (1996)             Most likely rating:  0
Leopard Son, The (1996)          Most likely rating:  0
```

- 4) I went through and chose my favorite movie, which was “Monty Python and the Holy Grail,” and ran the code to find it's top five most correlated and bottom five least correlated films. When the results came up and I google searched the movies, because I had no idea what any of them were, and based off of that knowledge I couldn't disagree more. I personally do not like the resulting films.

```
atria:~/CS432/A7> python ques4.py
Favorite Movie: 168|Monty Python and the Holy Grail (1974)|
-----
/usr/lib/python2.7/dist-packages/scipy/stats/stats.py:2514: RuntimeWarning: invalid value encountered in double_scalars
  r = r_num / r_den
Top 5 most correlated movies:
-----
Nico Icon (1995) ( correlation: 1.0 )
Hugo Pool (1997) ( correlation: 1.0 )
Bliss (1997) ( correlation: 1.0 )
Baton Rouge (1988) ( correlation: 1.0 )
Collectionneuse, La (1967) ( correlation: 1.0 )
Bottom 5 least correlated movies:
-----
Naked in New York (1994) ( correlation: -1.0 )
Bewegte Mann, Der (1994) ( correlation: -1.0 )
Steel (1997) ( correlation: -1.0 )
Bitter Sugar (Azucar Amargo) (1996) ( correlation: -1.0 )
Search for One-eye Jimmy, The (1996) ( correlation: -1.0 )

Least Favorite Movie: 155|Dirty Dancing (1987)|01-Jan-1987|
-----
Top 5 most correlated movies:
-----
Critical Care (1997) ( correlation: 1.0 )
Hard Rain (1998) ( correlation: 1.0 )
Promesse, La (1996) ( correlation: 1.0 )
All Dogs Go to Heaven 2 (1996) ( correlation: 1.0 )
Crimmonie, La (1995) ( correlation: 1.0 )
Bottom 5 least correlated movies:
-----
unknown ( correlation: -1.0 )
Maximum Risk (1996) ( correlation: -1.0 )
Horseman on the Roof, The (Hussard sur le toit, Le) (1995) ( correlation: -1.0 )
I Love Trouble (1994) ( correlation: -1.0 )
Sum of Us, The (1994) ( correlation: -1.0 )
```