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Keterangan : UAS, Reg C  
Matakuliah : Sistem Penujang Keputusan  
Dosen : AGUNG PERDANANTO S.Kom, M.Kom

Home Page - Select or create a notebook | Abdul Hasbi\_181011402368\_UAS\_SPK\_07TPLE013.ipynb

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In [1]: # import library  
import pandas as pd

In [2]: ratings = pd.read\_csv('ratings.csv')  
movies = pd.read\_csv('movies.csv')  
ratings = pd.merge(movies,ratings).drop(['genres','timestamp'],axis=1)  
ratings.head()

Out[2]:

	movieId	title	userId	rating
0	1	Toy Story (1995)	7	3.0
1	1	Toy Story (1995)	9	4.0
2	1	Toy Story (1995)	13	5.0
3	1	Toy Story (1995)	15	2.0
4	1	Toy Story (1995)	19	3.0

In [3]: user\_ratings = ratings.pivot\_table(index=['userId'],columns=['title'],values='rating')  
user\_ratings.head()

Out[3]:

userId	"Great Performances" Cats (1998)	\$9.99 (2008)	'Hellboy': The Seeds of Creation (2004)	'Neath the Arizona Skies (1934)	'Round Midnight (1986)	'Salem's Lot (2004)	'Til There Was You (1997)	'burbs, The (1989)	'night Mother (1986)	(500) Days of Summer (2009)	... (1964)	Zulu (2013)	[REC] (2007)	eXistenZ (1999)	loudQUIETCloud: A Film About the Pixies (2006)
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Out[3]:

	title	"Great Performances" Cats (1998)	\$9.99 (2008)	'Hellboy': The Seeds of Creation (2004)	'Neath the Arizona Skies (1934)	'Round Midnight (1986)	'Salem's Lot (2004)	'Til There Was You (1997)	'burbs, The (1989)	'night Mother (1986)	(500) Days of Summer (2009)	... (1964)	Zulu (2013)	[REC] (2007)	eXistenZ (1999)	loudQUIETloud: A Film About the Pixies (2006)	(2
userId																	
1		NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	...	NaN	NaN	NaN	NaN	NaN
2		NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	...	NaN	NaN	NaN	NaN	NaN
3		NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	...	NaN	NaN	NaN	NaN	NaN
4		NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	...	NaN	NaN	NaN	NaN	NaN
5		NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	...	NaN	NaN	NaN	NaN	NaN

5 rows x 9064 columns

In [4]:  
## Let's Remove Movies which have Less than 10 users who rated it. and fill remaining NaN with 0  
user\_ratings = user\_ratings.dropna(thresh=10,axis=1).fillna(0)

In [6]:  
## Let's Build our Similarity Matrix  
item\_similarity\_df = user\_ratings.corr(method='pearson')  
item\_similarity\_df.head(50)

Out[6]:

	title	'burbs, The (1989)	(500) Days of Summer (2009)	...And Justice for All (1979)	10 Things I Hate About You	101 Dalmatians (1996)	101 Dalmatians (One Hundred and One Dalmatians) (2000)	102 Angry Men (1957)	12 Years a Slave (2013)	127 Hours ... (2010)	Young Guns II (1990)	Zack and Miri Make a Porno (2008)	Zi Di Thi (20
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item\_similarity\_df = user\_ratings.corr(method='pearson')

item\_similarity\_df.head(50)

Out[6]:

	'burbs, The (1989)	(500) Days of Summer (2009)	...And Justice for All (1979)	10 Things I Hate About You (1999)	101 Dalmatians (1996)	101 Dalmatians (One Hundred and One Dalmatians) (1961)	102 Dalmatians (2000)	12 Angry Men (1957)	12 Years a Slave (2013)	127 Hours (2010)	...	Young Guns II (1990)	Zack and Miri Make a Porno (2008)	Zi Di Thi (20
title														
'burbs, The (1989)	1.000000	0.049358	0.183453	0.082564	0.101948	0.162694	-0.002466	0.067309	0.020832	0.105458	...	0.297098	0.015872	0.0404
(500) Days of Summer (2009)	0.049358	1.000000	0.026848	0.230095	0.078582	0.040188	0.068425	0.156769	0.117532	0.380868	...	0.000182	0.172106	0.3457
...And Justice for All (1979)	0.183453	0.026848	1.000000	0.040358	0.141549	0.334189	0.005991	0.283803	-0.017748	0.069345	...	0.013836	-0.018287	0.0096
10 Things I														

In [ ]: