In [1]:	<pre>import numpy as np import pandas as pd</pre>
In [2]:	<pre>movies_df=pd.read_csv("movies.csv", usecols=['movieId','title'], dtype={'movieId': 'int32', 'title': 'str'}) rating_df=pd.read_csv("ratings.csv", usecols=['userId', 'movieId', 'rating'], dtype={'userID':'int32', 'movieId':'int32', 'rating':'float32'})</pre>
In [3]:	
Out[3]:	movies_ui
	0 1 Toy Story (1995) 1 2 Jumanji (1995)
	2 3 Grumpier Old Men (1995) 3 4 Waiting to Exhale (1995)
	4 5 Father of the Bride Part II (1995)
	 193581 Black Butler: Book of the Atlantic (2017) 1938 193583 No Game No Life: Zero (2017)
	9739 193585 Flint (2017) 9740 193587 Bungo Stray Dogs: Dead Apple (2018)
	9741 193609 Andrew Dice Clay: Dice Rules (1991) 9742 rows × 2 columns
In [4]:	
Out[4]:	userId movield rating
	0 1 1 4.0 1 1 3 4.0
	2 1 6 4.0 3 1 47 5.0 4 1 50 5.0
	100832 610 168248 5.0 100833 610 168250 5.0
	100834 610 168252 5.0 100835 610 170875 3.0
	100836 rows × 3 columns
In [5]:	<pre>df=pd.merge(movies_df,rating_df,on='movieId')</pre>
In [6]:	df
Out[6]:	movield title userld rating 1 Toy Story (1995) 1 4.0
	1 1 Toy Story (1995) 5 4.0 2 1 Toy Story (1995) 7 4.5
	3 1 Toy Story (1995) 15 2.5 4 1 Toy Story (1995) 17 4.5
	100832 193583 No Game No Life: Zero (2017) 184 3.5 100833 193585 Flint (2017) 184 3.5
	100834 193587 Bungo Stray Dogs: Dead Apple (2018) 184 3.5 100835 193609 Andrew Dice Clay: Dice Rules (1991) 331 4.0
	100836 rows × 4 columns
In [7]:	<pre># combine_movie_rating=df.dropna(how='any', axis=0) combine_movie_rating = df.dropna(axis = 0, subset = ['title']) movieratingcount=pd.DataFrame(combine_movie_rating.groupby('title')['rating'].count())</pre>
In [8]:	combine_movie_rating.shape
Out[8]:	(100836, 4)
In [9]:	movier acting counc
Out[9]:	rating title '71 (2014) 1
	'Hellboy': The Seeds of Creation (2004) 1 'Round Midnight (1986) 2
	'Salem's Lot (2004) 1 'Til There Was You (1997) 2
	eXistenZ (1999) 22
	xXx (2002) 24 xXx: State of the Union (2005) 5
	¡Three Amigos! (1986) 26 À nous la liberté (Freedom for Us) (1931) 1
	9719 rows × 1 columns
In [10]:	rating_with_totalkatingoodnt =pu.merge(combine_movie_rating, movieratingcount, on= title)
In [11]:	rating_with_totalkatingoodnt =pu.merge(combine_movie_rating, movieratingcount, on= title)
In [11]: In [12]:	<pre>rating_with_totalRatingCount.rename(columns={'rating_y':'totalRatingCount', 'rating_x':'rating'}, inplace= True) rating_with_totalRatingCount.head()</pre>
In [11]:	rating_with_totalRatingCount.rename(columns={'rating_y':'totalRatingCount', 'rating_x':'rating'}, inplace= True) rating_with_totalRatingCount.head() movield title userld rating totalRatingCount 0 1 Toy Story (1995) 1 4.0 215
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In [11]: In [12]:	rating_with_totalRatingCount.rename(columns={'rating_y':'totalRatingCount', 'rating_x':'rating'}, inplace= True) rating_with_totalRatingCount.head() movield title userld rating totalRatingCount 1 Toy Story (1995) 1 4.0 215 1 Toy Story (1995) 5 4.0 215 2 1 Toy Story (1995) 7 4.5 215
<pre>In [11]: In [12]: Out[12]: In [13]:</pre>	rating_with_totalRatingCount.rename(columns={'rating_y': 'totalRatingCount', 'rating_x': 'rating'}, inplace= True) rating_with_totalRatingCount.head() movield title userld rating totalRatingCount 1 Toy Story (1995) 1 4.0 215 1 1 Toy Story (1995) 5 4.0 215 2 1 Toy Story (1995) 7 4.5 215 3 1 Toy Story (1995) 15 2.5 215 4 1 Toy Story (1995) 17 4.5 215 rating_with_totalRatingCount.shape (100000 F)
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<pre>In [11]: In [12]: Out[12]: In [13]: Out[13]:</pre>	rating_with_totalRatingCount.head() movield title userid rating totalRatingCount 0 1 Toy Story (1995) 1 4.0 215 1 1 Toy Story (1995) 15 2.5 215 3 1 Toy Story (1995) 17 4.5 215 4 1 Toy Story (1995) 17 4.5 215 rating_with_totalRatingCount.shape (100836, 5) popularity_threshold=50 rating_with_totalRatingCount.query('totalRatingCount.>= @popularity_threshold') rating_popular_movie=rating_with_totalRatingCount.query('totalRatingCount.>= @popularity_threshold') rating_popular_movie=rating_with_totalRatingCount.query('totalRatingCount.>= @popularity_threshold') rating_popular_movie=head()
<pre>In [11]: In [12]: Out[12]: In [13]: Out[13]:</pre>	rating_with_totalRatingCount.rename(columns={'rating_y':'totalRatingCount', 'rating_x':'rating'), inplace= True) rating_with_totalRatingCount.head() movied title userd rating totalRatingCount 0 1 Toy Story (1995) 1 4.0 215 1 1 Toy Story (1995) 5 4.0 215 2 1 Toy Story (1995) 7 4.5 215 3 1 Toy Story (1995) 15 2.5 215 4 1 Toy Story (1995) 17 4.5 215 rating_with_totalRatingCount.shape (100836, 5) popularity_threshold=59
<pre>In [11]: In [12]: Out[12]: In [13]: Out[13]: In [14]:</pre>	rating_with_totalRatingCount.head() movied title userd rating totalRatingCount 1 Toy Story (1985) 1 4.0 215 2 1 Toy Story (1985) 1 5 2.5 215 3 1 Toy Story (1985) 1 7 4.5 215 4 1 Toy Story (1985) 1 7 4.5 215 rating_with_totalRatingCount.shape [10838, 5] popularity_threshold=50
<pre>In [11]: In [12]: Out[12]: In [13]: Out[13]: In [14]:</pre>	rating_with_totalRatingCount.rename(columns=('rating_y':'totalRatingCount', 'rating_x':'rating'), inplace= True) rating_with_totalRatingCount.head() movied
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<pre>In [11]: In [12]: Out[12]: In [13]: Out[13]: In [14]: In [15]:</pre>	rating_with_totalRatingCount.rename(columns=('rating_y':'totalRatingCount', 'rating_x':'rating'), inplace= True) rating_with_totalRatingCount head() movied title usered rating_totalRatingCount 1
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