In [1]: import pandas as pd

In [76]: df=pd.read_csv(r"C:\Users\ymani\Dropbox\PC\Downloads\merged_dataset.csv")

In [78]: **df**

Out[78]:		name	year	movie_rated	run_length	genres	release_date	rating	num_
	0	Inception	2010	PG-13	2h 28min	Action; Adventure;	16 July 2010 (USA)	8.8	19

		-		_	_		_	
0	Inception	2010	PG-13	2h 28min	Action; Adventure; Sci-Fi;	16 July 2010 (USA)	8.8	19
1	The Lord of the Rings: The Fellowship of the Ring	2001	PG-13	2h 58min	Action; Adventure; Drama;	19 December 2001 (USA)	8.8	16
2	The Lord of the Rings: The Return of the King	2003	PG-13	3h 21min	Adventure; Drama; Fantasy;	17 December 2003 (USA)	8.9	15
3	The Dark Knight Rises	2012	PG-13	2h 44min	Action; Adventure;	20 July 2012 (USA)	8.4	14
4	The Lord of the Rings: The Two Towers	2002	PG-13	2h 59min	Adventure; Drama; Fantasy;	18 December 2002 (USA)	8.7	14
•••								
1495	Catch-22	1970	R	2h 2min	Comedy; Drama; War;	24 June 1970 (USA)	7.1	
1496	The Great Raid	2005	R	2h 12min	Action; Drama; War;	12 August 2005 (USA)	6.7	
1497	Saints and Soldiers	2003	PG-13	1h 30min	Action; Drama; War;	25 March 2005 (USA)	6.7	
1498	Stop-Loss	2008	R	1h 52min	Drama; War;	28 March 2008 (USA)	6.4	
1499	The Alamo	2004	PG-13	2h 17min	Drama; History; War;	9 April 2004 (USA)	6.0	

1500 rows × 9 columns

In	[80]:	df.head()

Out[80]:		name	year	movie_rated	run_length	genres	release_date	rating	num_rate
	0	Inception	2010	PG-13	2h 28min	Action; Adventure; Sci-Fi;	16 July 2010 (USA)	8.8	19816
	1	The Lord of the Rings: The Fellowship of the Ring	2001	PG-13	2h 58min	Action; Adventure; Drama;	19 December 2001 (USA)	8.8	16091
	2	The Lord of the Rings: The Return of the King	2003	PG-13	3h 21min	Adventure; Drama; Fantasy;	17 December 2003 (USA)	8.9	15938
	3	The Dark Knight Rises	2012	PG-13	2h 44min	Action; Adventure;	20 July 2012 (USA)	8.4	14703
	4	The Lord of the Rings: The Two	2002	PG-13	2h 59min	Adventure; Drama; Fantasy;	18 December 2002 (USA)	8.7	14401
		Towers							
	4	Towers							•
In [82]:	₫	head(3)			-				•
In [82]: Out[82]:	df		year	movie_rated	run_length	genres	release_date	rating	num_rate
	df	head(3)		movie_rated PG-13	run_length 2h 28min	genres Action; Adventure; Sci-Fi;	release_date 16 July 2010 (USA)	rating 8.8	num_rate
		head(3)				Action; Adventure;	16 July 2010		
	0	name Inception The Lord of the Rings: The Fellowship of the	2010	PG-13	2h 28min	Action; Adventure; Sci-Fi; Action; Adventure;	16 July 2010 (USA)	8.8	19816
	0	Inception The Lord of the Rings: The Fellowship of the Ring The Lord of the Rings: The Lord of the Rings: The Return of	2010	PG-13	2h 28min 2h 58min	Action; Adventure; Sci-Fi; Action; Adventure; Drama;	16 July 2010 (USA) 19 December 2001 (USA)	8.8	19816 16091

Out[84]:		name	year	movie_rated	run_length	genres	release_date	rating	num_rate
	1495	Catch- 22	1970	R	2h 2min	Comedy; Drama; War;	24 June 1970 (USA)	7.1	2142
	1496	The Great Raid	2005	R	2h 12min	Action; Drama; War;	12 August 2005 (USA)	6.7	2096
	1497	Saints and Soldiers	2003	PG-13	1h 30min	Action; Drama; War;	25 March 2005 (USA)	6.7	1973
	1498	Stop- Loss	2008	R	1h 52min	Drama; War;	28 March 2008 (USA)	6.4	1945
	1499	The Alamo	2004	PG-13	2h 17min	Drama; History; War;	9 April 2004 (USA)	6.0	1929
	4								•
In [86]:	df=df	.rename(column	s={'run_lengt	ch':'length	'})			
In [88]:	df								

Out[88]:		name	year	movie_rated	length	genres	release_date	rating	num_rate
	0	Inception	2010	PG-13	2h 28min	Action; Adventure; Sci-Fi;	16 July 2010 (USA)	8.8	198167
	1	The Lord of the Rings: The Fellowship of the Ring	2001	PG-13	2h 58min	Action; Adventure; Drama;	19 December 2001 (USA)	8.8	160916
	2	The Lord of the Rings: The Return of the King	2003	PG-13	3h 21min	Adventure; Drama; Fantasy;	17 December 2003 (USA)	8.9	159385
	3	The Dark Knight Rises	2012	PG-13	2h 44min	Action; Adventure;	20 July 2012 (USA)	8.4	147032
	4	The Lord of the Rings: The Two Towers	2002	PG-13	2h 59min	Adventure; Drama; Fantasy;	18 December 2002 (USA)	8.7	144018
	•••	•••							
	1495	Catch-22	1970	R	2h 2min	Comedy; Drama; War;	24 June 1970 (USA)	7.1	2142
	1496	The Great Raid	2005	R	2h 12min	Action; Drama; War;	12 August 2005 (USA)	6.7	2096
	1497	Saints and Soldiers	2003	PG-13	1h 30min	Action; Drama; War;	25 March 2005 (USA)	6.7	1973
	1498	Stop-Loss	2008	R	1h 52min	Drama; War;	28 March 2008 (USA)	6.4	1945
	1499	The Alamo	2004	PG-13	2h 17min	Drama; History; War;	9 April 2004 (USA)	6.0	1929

1500 rows × 9 columns

1

In [94]: df=df.rename(columns={'name':'Name'})

In [96]: df['length']

```
2h 28min
2h 58min
Out[96]: 0
          1
           2
                 3h 21min
           3
                 2h 44min
           4
                 2h 59min
                   2h 2min
           1495
           1496
                  2h 12min
           1497
                  1h 30min
           1498
                  1h 52min
           1499
                   2h 17min
           Name: length, Length: 1500, dtype: object
In [98]: df['Name']
Out[98]: 0
                                                           Inception
                  The Lord of the Rings: The Fellowship of the Ring
           1
           2
                       The Lord of the Rings: The Return of the King
           3
                                               The Dark Knight Rises
           4
                               The Lord of the Rings: The Two Towers
           1495
                                                            Catch-22
           1496
                                                      The Great Raid
           1497
                                                 Saints and Soldiers
                                                           Stop-Loss
           1498
           1499
                                                           The Alamo
          Name: Name, Length: 1500, dtype: object
          fiv=df.head()
In [104...
In [108...
          fiv
```

	Name	year	movie_rated	length	genres	release_date	rating	num_raters
0	Inception	2010	PG-13	2h 28min	Action; Adventure; Sci-Fi;	16 July 2010 (USA)	8.8	1981675
1	The Lord of the Rings: The Fellowship of the Ring	2001	PG-13	2h 58min	Action; Adventure; Drama;	19 December 2001 (USA)	8.8	1609165
2	The Lord of the Rings: The Return of the King	2003	PG-13	3h 21min	Adventure; Drama; Fantasy;	17 December 2003 (USA)	8.9	1593859
3	The Dark Knight Rises	2012	PG-13	2h 44min	Action; Adventure;	20 July 2012 (USA)	8.4	1470329
4	The Lord of the Rings: The Two Towers	2002	PG-13	2h 59min	Adventure; Drama; Fantasy;	18 December 2002 (USA)	8.7	1440188
								•

Descriptive Statistics

Out[108...

```
fiv['rating'].mean()
In [110...
Out[110...
           8.719999999999999
In [112...
          df['rating'].median()
Out[112... 7.6
In [114...
          fiv['rating'].median()
Out[114... 8.8
In [116...
          fiv[['rating','num_raters']].median()
Out[116...
           rating
                               8.8
           num_raters 1593859.0
           dtype: float64
In [118...
          df[['num_raters','num_reviews']].describe()
```

```
num_raters num_reviews
           count 1.500000e+03
                                1500.000000
                                996.054667
           mean 4.116746e+05
             std 3.181686e+05
                                1009.968589
                                102.000000
             min 1.929000e+04
            25%
                  1.912445e+05
                                424.750000
                                724.500000
            50% 3.414520e+05
            75% 5.654030e+05
                                1223.250000
            max 2.258845e+06 10279.000000
In [122...
           fiv[['rating','num_reviews']].describe()
Out[122...
                    rating num_reviews
           count 5.000000
                               5.000000
           mean 8.720000
                            3680.800000
                  0.192354
                            1073.180414
             std
            min 8.400000
                            2559.000000
            25%
                  8.700000
                            2979.000000
                  8.800000
                            3681.000000
            50%
            75%
                  8.800000
                            3820.000000
            max 8.900000
                            5365.000000
In [126...
           fiv['num_reviews'].skew()
Out[126...
           1.0189511787076169
           fiv.agg({'rating':['min','max','mean','skew','count'],'num_reviews':['min','skew
In [132...
Out[132...
                      rating num_reviews
                    8.400000
                               2559.000000
              min
                    8.900000
                               5365.000000
              max
                    8.720000
                               3680.800000
             mean
                    -1.517474
                                  1.018951
             skew
                    5.000000
                                     NaN
            count
                        NaN
                               3681.000000
           median
In [134...
           df.head()
```

Out[118...

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	Name	year	movie_rated	length	genres	release_date	rating	num_raters
0	Inception	2010	PG-13	2h 28min	Action; Adventure; Sci-Fi;	16 July 2010 (USA)	8.8	1981675
1	The Lord of the Rings: The Fellowship of the Ring	2001	PG-13	2h 58min	Action; Adventure; Drama;	19 December 2001 (USA)	8.8	1609165
2	The Lord of the Rings: The Return of the King	2003	PG-13	3h 21min	Adventure; Drama; Fantasy;	17 December 2003 (USA)	8.9	1593859
3	The Dark Knight Rises	2012	PG-13	2h 44min	Action; Adventure;	20 July 2012 (USA)	8.4	1470329
4	The Lord of the Rings: The Two Towers	2002	PG-13	2h 59min	Adventure; Drama; Fantasy;	18 December 2002 (USA)	8.7	1440188
4								•
fi	v.groupby('ratin	g').count()					

In [158...

Out[158...

	Name	year	movie_rated	length	genres	release_date	num_raters	num_reviev
rating								
8.4	1	1	1	1	1	1	1	
8.7	1	1	1	1	1	1	1	
8.8	2	2	2	2	2	2	2	
8.9	1	1	1	1	1	1	1	

In [160...

fiv.dtypes

Out[160...

object Name int64 year object movie_rated object length object genres object release_date float64 rating num_raters int64 int64 num_reviews dtype: object

In [162...

fiv.describe(include=object)

Out[162...

	Name	movie_rated	length	genres	release_date
count	5	5	5	5	5
unique	5	1	5	4	5
top	Inception	PG-13	2h 28min	Adventure; Drama; Fantasy;	16 July 2010 (USA)
freq	1	5	1	2	1

In [166...

categorical_data=fiv.describe(include=object)
categorical_data

Out[166...

	Name	movie_rated	length	genres	release_date
count	5	5	5	5	5
unique	5	1	5	4	5
top	Inception	PG-13	2h 28min	Adventure; Drama; Fantasy;	16 July 2010 (USA)
freq	1	5	1	2	1

In [172...

numerical_data=fiv.describe()
numerical_data

Out[172...

	year	rating	num_raters	num_reviews
count	5.000000	5.000000	5.000000e+00	5.000000
mean	2005.600000	8.720000	1.619043e+06	3680.800000
std	5.029911	0.192354	2.158349e+05	1073.180414
min	2001.000000	8.400000	1.440188e+06	2559.000000
25%	2002.000000	8.700000	1.470329e+06	2979.000000
50%	2003.000000	8.800000	1.593859e+06	3681.000000
75%	2010.000000	8.800000	1.609165e+06	3820.000000
max	2012.000000	8.900000	1.981675e+06	5365.000000

In [178...

numerical_data.groupby('year').min()

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year 5.000000 5.000000 5.000000e+00 5.000000 5.029911 0.192354 2.158349e+05 1073.180414 2001.000000 8.400000 1.440188e+06 2559.000000 2002.000000 8.700000 1.470329e+06 2979.000000 2003.000000 8.800000 1.593859e+06 3681.000000 2005.600000 8.720000 1.619043e+06 3680.800000 2010.000000 8.800000 1.609165e+06 3820.000000 2012.000000 8.900000 1.981675e+06 5365.000000

num_raters num_reviews

rating

In [180...

numerical_data.groupby('year').max()

Out[180...

year 5.000000 5.000000 5.000000e+00 5.000000 5.029911 0.192354 2.158349e+05 1073.180414 2001.000000 8.400000 1.440188e+06 2559.00000 2002.000000 8.700000 1.470329e+06 2979.000000
5.029911 0.192354 2.158349e+05 1073.180414 2001.00000 8.400000 1.440188e+06 2559.000000
2001.000000 8.400000 1.440188e+06 2559.000000
2002.00000 8.700000 1.470329e+06 2979.000000
2003.00000 8.800000 1.593859e+06 3681.000000
2005.600000 8.720000 1.619043e+06 3680.800000
2010.000000 8.800000 1.609165e+06 3820.000000
2012.000000 8.900000 1.981675e+06 5365.000000

rating num_raters num_reviews

In [182...

fiv

Out[182		Name	year	movie_rated	length	genres	release_date	rating	num_raters	
	0	Inception	2010	PG-13	2h 28min	Action; Adventure; Sci-Fi;	16 July 2010 (USA)	8.8	1981675	
	1	The Lord of the Rings: The Fellowship of the Ring	2001	PG-13	2h 58min	Action; Adventure; Drama;	19 December 2001 (USA)	8.8	1609165	
	2	The Lord of the Rings: The Return of the King	2003	PG-13	3h 21min	Adventure; Drama; Fantasy;	17 December 2003 (USA)	8.9	1593859	
	3	The Dark Knight Rises	2012	PG-13	2h 44min	Action; Adventure;	20 July 2012 (USA)	8.4	1470329	
	4	The Lord of the Rings: The Two Towers	2002	PG-13	2h 59min	Adventure; Drama; Fantasy;	18 December 2002 (USA)	8.7	1440188	
	4				_	_			•	
In [184	fi	v.groupby('movie	_rated')['ra	ting'].m	nean()				
Out[184	PG	movie_rated PG-13 8.72 Name: rating, dtype: float64								
In [188	df	.groupby('r	movie_	rated')['rat:	ing'].me	edian()				
Out[188	movie_rated Approved 8.30 G 8.00 GP 7.75 M/PG 7.70 NC-17 7.50 Not Rated 8.00 Null 8.90 PG 7.70 PG-13 7.30 Passed 8.10 R 7.60 TV-14 7.40 TV-MA 7.00 TV-PG 6.30 Name: rating, dtype: float64									
In [190	df	<pre>df.groupby('movie_rated')['rating'].mean()</pre>								

```
Out[190...
         movie_rated
          Approved
                     8.310000
          G
                      7.809091
          GΡ
                     7.750000
          M/PG
                     7.700000
          NC-17
                     7.500000
          Not Rated 7.732258
          Null
                    8.900000
          PG
                     7.545918
          PG-13
                     7.269216
          Passed
                     8.033333
          R
                     7.557732
          TV-14
                     7.400000
          TV-MA
                      6.833333
          TV-PG
                      6.300000
          Name: rating, dtype: float64
In [198...
          df.groupby(['movie_rated'])[['num_raters','num_reviews']].mean()
Out[198...
                        num_raters num_reviews
          movie rated
```

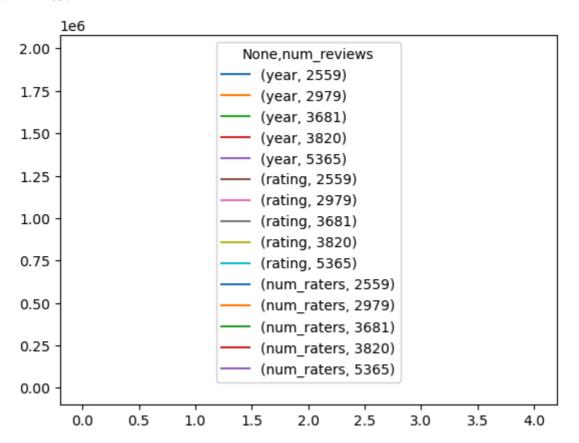
illovie_ratea		
Approved	291764.800000	675.800000
G	472524.236364	636.909091
GP	67977.500000	248.000000
M/PG	50313.000000	270.000000
NC-17	180957.000000	833.000000
Not Rated	88552.354839	322.967742
Null	103674.000000	146.000000
PG	368056.158163	723.433673
PG-13	450626.919608	1196.815686
Passed	151585.000000	438.222222
R	415007.945508	1005.552283
TV-14	30652.000000	258.000000
TV-MA	74451.333333	343.333333
TV-PG	21976.000000	366.000000

In [214... df.isnull().sum()

```
Out[214...
                            0
           Name
                            0
           year
           movie_rated
           length
                            0
           genres
                            0
           release_date
                            0
           rating
                            0
           num_raters
                            0
           num_reviews
           dtype: int64
```

In [366... fiv.pivot(columns='num_reviews').plot()

Out[366... <Axes: >



In [236... df

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	Name	year	movie_rated	length	genres	release_date	rating	num_rate
0	Inception	2010	PG-13	2h 28min	Action; Adventure; Sci-Fi;	16 July 2010 (USA)	8.8	198167
1	The Lord of the Rings: The Fellowship of the Ring	2001	PG-13	2h 58min	Action; Adventure; Drama;	19 December 2001 (USA)	8.8	160916
2	The Lord of the Rings: The Return of the King	2003	PG-13	3h 21min	Adventure; Drama; Fantasy;	17 December 2003 (USA)	8.9	159385
3	The Dark Knight Rises	2012	PG-13	2h 44min	Action; Adventure;	20 July 2012 (USA)	8.4	147032
4	The Lord of the Rings: The Two Towers	2002	PG-13	2h 59min	Adventure; Drama; Fantasy;	18 December 2002 (USA)	8.7	144018
•••								
1495	Catch-22	1970	R	2h 2min	Comedy; Drama; War;	24 June 1970 (USA)	7.1	2142
1496	The Great Raid	2005	R	2h 12min	Action; Drama; War;	12 August 2005 (USA)	6.7	2096
1497	Saints and Soldiers	2003	PG-13	1h 30min	Action; Drama; War;	25 March 2005 (USA)	6.7	1973
1498	Stop-Loss	2008	R	1h 52min	Drama; War;	28 March 2008 (USA)	6.4	1945
1499	The Alamo	2004	PG-13	2h 17min	Drama; History; War;	9 April 2004 (USA)	6.0	1929
1500 r	ows × 9 colu	ımns						
4								

In [242... del df["release_date"]

In [244... df

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	Name	year	movie_rated	length	genres	rating	num_raters	num_revie
0	Inception	2010	PG-13	2h 28min	Action; Adventure; Sci-Fi;	8.8	1981675	38
1	The Lord of the Rings: The Fellowship of the Ring	2001	PG-13	2h 58min	Action; Adventure; Drama;	8.8	1609165	53
2	The Lord of the Rings: The Return of the King	2003	PG-13	3h 21min	Adventure; Drama; Fantasy;	8.9	1593859	36
3	The Dark Knight Rises	2012	PG-13	2h 44min	Action; Adventure;	8.4	1470329	29
4	The Lord of the Rings: The Two Towers	2002	PG-13	2h 59min	Adventure; Drama; Fantasy;	8.7	1440188	25
•••								
1495	Catch-22	1970	R	2h 2min	Comedy; Drama; War;	7.1	21424	1.
1496	The Great Raid	2005	R	2h 12min	Action; Drama; War;	6.7	20965	1
1497	Saints and Soldiers	2003	PG-13	1h 30min	Action; Drama; War;	6.7	19730	1
1498	Stop-Loss	2008	R	1h 52min	Drama; War;	6.4	19456	1
1499	The Alamo	2004	PG-13	2h 17min	Drama; History; War;	6.0	19290	3

1500 rows × 8 columns

In [248... Filter1=df["rating"]>8

In [270... Filter2=df['rating']>8.5

In [278... num_of_TopRatings=df[Filter2].count()

```
In [280...
          print(num_of_TopRatings)
         Name
                         61
         year
                         61
         movie_rated
                         61
         length
                         61
         genres
                         61
                         61
         rating
         num_raters
                         61
         num_reviews
                         61
         dtype: int64
```

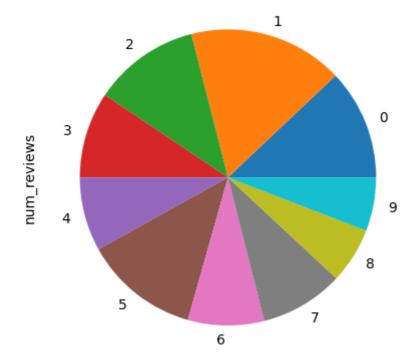
Data Visualization

```
In [291... import matplotlib.pyplot as plt
import seaborn as sns

In [299... vis1=fiv['num_reviews'].plot(kind='bar',figsize=(10,5))

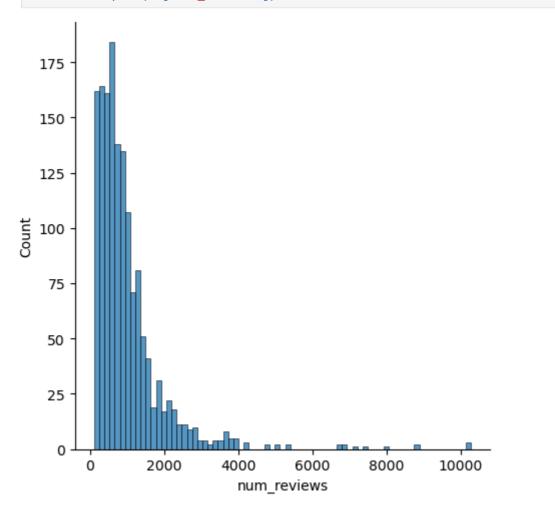
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In [360... v=df['num_reviews'].head(10).plot(kind='pie')

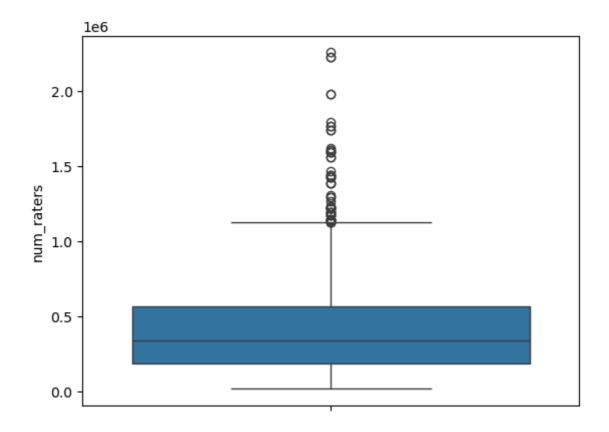


In [350... plt.show(v)

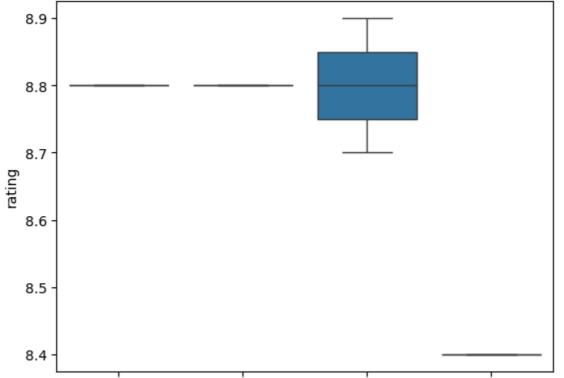
In [301... vis2=sns.displot(df["num_reviews"])



In [303... vis3=sns.boxplot(df["num_raters"])

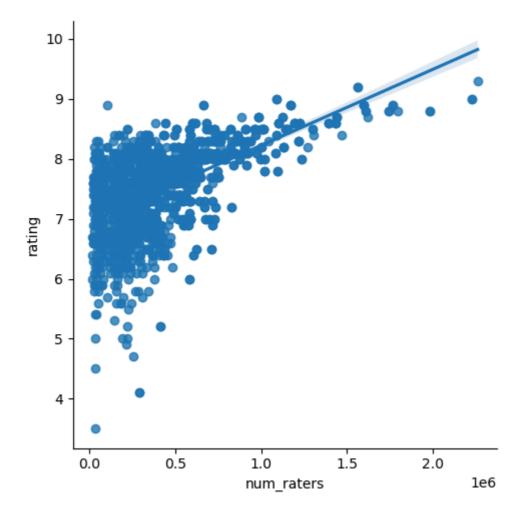


In [307... vis4=sns.boxplot(data=fiv,x='genres',y='rating')

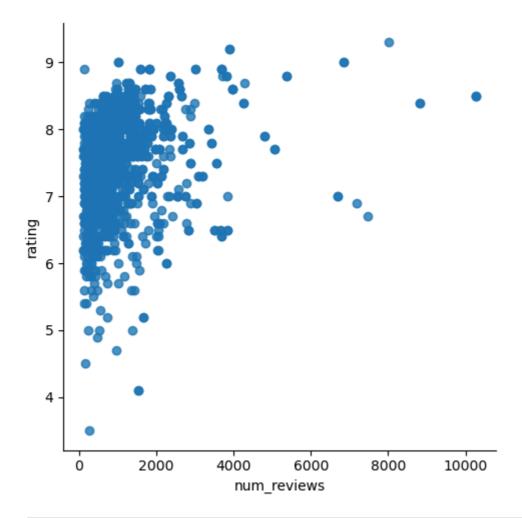


Action; Adventur**&csizi**rFi;Adventur**&dvæntur**e; Drama; Far**Activ**n; Adventure; genres

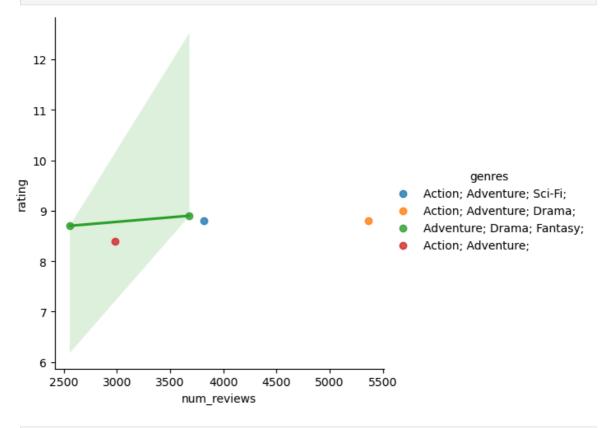
```
In [313... vis5=sns.lmplot(data=df,x='num_raters',y='rating')
```



In [315... vis5=sns.lmplot(data=df,x="num_reviews",y='rating',fit_reg=False)



In [326... vis6=sns.lmplot(data=fiv,x="num_reviews",y="rating",hue='genres')
 plt.show(vis6)



In [320... plt.show(vis6)