```
In [93]:
          import pandas as pd
           import matplotlib.pyplot as plt
 In [3]:
          movies= pd.read csv(r'S:\DOCS\4th sep imdb\IMDB dataset\movie.csv')
 In [4]:
           movies
 Out[4]:
                   movield
                                                    title
                                                                                            genres
                0
                          1
                                          Toy Story (1995)
                                                         Adventure|Animation|Children|Comedy|Fantasy
                1
                         2
                                           Jumanji (1995)
                                                                          Adventure|Children|Fantasy
                2
                         3
                                  Grumpier Old Men (1995)
                                                                                  Comedy|Romance
                3
                          4
                                   Waiting to Exhale (1995)
                                                                            Comedy|Drama|Romance
                4
                         5
                            Father of the Bride Part II (1995)
                                                                                           Comedy
                    131254
                               Kein Bund für's Leben (2007)
            27273
                                                                                           Comedy
            27274
                    131256
                              Feuer, Eis & Dosenbier (2002)
                                                                                           Comedy
                    131258
                                        The Pirates (2014)
            27275
                                                                                         Adventure
            27276
                    131260
                                      Rentun Ruusu (2001)
                                                                                   (no genres listed)
                                                                            Adventure|Fantasy|Horror
            27277
                    131262
                                         Innocence (2014)
           27278 rows × 3 columns
          ratings=pd.read csv(r'S:\DOCS\4th sep imdb\IMDB dataset\rating.csv')
 In [7]:
           ratings
 Out[7]:
                                       rating
                       userld
                               movield
                                                       timestamp
                   0
                            1
                                     2
                                           3.5
                                               2005-04-02 23:53:47
                            1
                                    29
                    1
                                           3.5
                                               2005-04-02 23:31:16
                   2
                            1
                                               2005-04-02 23:33:39
                                    32
                                           3.5
                                    47
                                               2005-04-02 23:32:07
                                               2005-04-02 23:29:40
                    4
                            1
                                    50
                                           3.5
                                               2009-11-13 15:42:00
            20000258
                      138493
                                 68954
                                           4.5
            20000259
                      138493
                                 69526
                                          4.5 2009-12-03 18:31:48
            20000260
                      138493
                                 69644
                                               2009-12-07 18:10:57
            20000261
                      138493
                                 70286
                                               2009-11-13 15:42:24
            20000262 138493
                                          2.5 2009-10-17 20:25:36
                                 71619
           20000263 rows × 4 columns
In [10]:
          tags=pd.read csv(r'S:\DOCS\4th sep imdb\IMDB dataset\tag.csv')
```

In [11]: tags

_				
Λ.	14-	111		
υı	JL.	1 4 4	LIA	
-			-1.	

	userld	movield	tag	timestamp
0	18	4141	Mark Waters	2009-04-24 18:19:40
1	65	208	dark hero	2013-05-10 01:41:18
2	65	353	dark hero	2013-05-10 01:41:19
3	65	521	noir thriller	2013-05-10 01:39:43
4	65	592	dark hero	2013-05-10 01:41:18
465559	138446	55999	dragged	2013-01-23 23:29:32
465560	138446	55999	Jason Bateman	2013-01-23 23:29:38
465561	138446	55999	quirky	2013-01-23 23:29:38
465562	138446	55999	sad	2013-01-23 23:29:32
465563	138472	923	rise to power	2007-11-02 21:12:47

465564 rows × 4 columns

In [12]: movies

Out[12]:

		movield	title	genres
	0	1	Toy Story (1995)	Adventure Animation Children Comedy Fantasy
	1	2	Jumanji (1995)	Adventure Children Fantasy
	2	3	Grumpier Old Men (1995)	Comedy Romance
	3	4	Waiting to Exhale (1995)	Comedy Drama Romance
	4	5	Father of the Bride Part II (1995)	Comedy
2	27273	131254	Kein Bund für's Leben (2007)	Comedy
2	27274	131256	Feuer, Eis & Dosenbier (2002)	Comedy
2	27275	131258	The Pirates (2014)	Adventure
2	27276	131260	Rentun Ruusu (2001)	(no genres listed)
2	27277	131262	Innocence (2014)	Adventure Fantasy Horror

27278 rows × 3 columns

In [13]: type(movies)

Out[13]: pandas.core.frame.DataFrame

In [14]: movies.head(20)

$\triangle +$	1111	
Out	1 14 1	

0 1 Toy Story (1995) Adventure Animation Children Comedy Fantasy 1 2 Jumanji (1995) Adventure Children Fantasy 2 3 Grumpier Old Men (1995) Comedy Romance 3 4 Waiting to Exhale (1995) Comedy Drama Romance 4 5 Father of the Bride Part II (1995) Comedy Drama Romance 5 6 Heat (1995) Action Crime Thriller 6 7 Sabrina (1995) Comedy Romance 7 8 Tom and Huck (1995) Adventure Children 8 9 Sudden Death (1995) Action Adventure Thriller 10 11 American President, The (1995) Comedy Drama Romance 11 12 Dracula: Dead and Loving It (1995) Comedy Horror 12 13 Balto (1995) Adventure Animation Children 13 14 Nixon (1995) Action Adventure Romance 15 Cutthroat Island (1995) Action Adventure Romance 15 16 Casino (1995) Drama Romance 16		movield	title	genres
2 3 Grumpier Old Men (1995) Comedy Romance 3 4 Waiting to Exhale (1995) Comedy Drama Romance 4 5 Father of the Bride Part II (1995) Comedy 5 6 Heat (1995) Action Crime Thriller 6 7 Sabrina (1995) Comedy Romance 7 8 Tom and Huck (1995) Adventure Children 8 9 Sudden Death (1995) Action Adventure Thriller 10 11 American President, The (1995) Comedy Drama Romance 11 12 Dracula: Dead and Loving It (1995) Comedy Drama Romance 12 13 Balto (1995) Adventure Animation Children 13 14 Nixon (1995) Action Adventure Romance 15 16 Casino (1995) Action Adventure Romance 15 16 Casino (1995) Drama Romance 16 17 Sense and Sensibility (1995) Drama Romance 17 18 Four Rooms (1995) Comedy 18 19 Ace	0	1	Toy Story (1995)	Adventure Animation Children Comedy Fantasy
3 4 Waiting to Exhale (1995) Comedy Drama Romance 4 5 Father of the Bride Part II (1995) Comedy 5 6 Heat (1995) Action Crime Thriller 6 7 Sabrina (1995) Comedy Romance 7 8 Tom and Huck (1995) Adventure Children 8 9 Sudden Death (1995) Action Adventure Thriller 10 11 American President, The (1995) Comedy Drama Romance 11 12 Dracula: Dead and Loving It (1995) Comedy Horror 12 13 Balto (1995) Adventure Animation Children 13 14 Nixon (1995) Action Adventure Romance 15 16 Casino (1995) Action Adventure Romance 15 16 Casino (1995) Drama Romance 16 17 Sense and Sensibility (1995) Drama Romance 17 18 Four Rooms (1995) Comedy 18 19 Ace Ventura: When Nature Calls (1995) Comedy	1	2	Jumanji (1995)	Adventure Children Fantasy
4 5 Father of the Bride Part II (1995) Comedy 5 6 Heat (1995) Action Crime Thriller 6 7 Sabrina (1995) Comedy Romance 7 8 Tom and Huck (1995) Adventure Children 8 9 Sudden Death (1995) Action Adventure Thriller 10 11 American President, The (1995) Comedy Drama Romance 11 12 Dracula: Dead and Loving It (1995) Comedy Horror 12 13 Balto (1995) Adventure Animation Children 13 14 Nixon (1995) Action Adventure Romance 15 16 Casino (1995) Action Adventure Romance 15 16 Casino (1995) Drama Romance 16 17 Sense and Sensibility (1995) Drama Romance 17 18 Four Rooms (1995) Comedy 18 19 Ace Ventura: When Nature Calls (1995) Comedy	2	3	Grumpier Old Men (1995)	Comedy Romance
5 6 Heat (1995) Action Crime Thriller 6 7 Sabrina (1995) Comedy Romance 7 8 Tom and Huck (1995) Adventure Children 8 9 Sudden Death (1995) Action Adventure Thriller 10 11 American President, The (1995) Comedy Drama Romance 11 12 Dracula: Dead and Loving It (1995) Comedy Horror 12 13 Balto (1995) Adventure Animation Children 13 14 Nixon (1995) Action Adventure Romance 15 16 Casino (1995) Action Adventure Romance 15 16 Casino (1995) Drama Romance 17 18 Four Rooms (1995) Drama Romance 17 18 Four Rooms (1995) Comedy 18 19 Ace Ventura: When Nature Calls (1995) Comedy	3	4	Waiting to Exhale (1995)	Comedy Drama Romance
6 7 Sabrina (1995) Comedy Romance 7 8 Tom and Huck (1995) Adventure Children 8 9 Sudden Death (1995) Action Adventure Thriller 9 10 GoldenEye (1995) Action Adventure Thriller 10 11 American President, The (1995) Comedy Drama Romance 11 12 Dracula: Dead and Loving It (1995) Comedy Horror 12 13 Balto (1995) Adventure Animation Children 13 14 Nixon (1995) Action Adventure Romance 14 15 Cutthroat Island (1995) Action Adventure Romance 15 16 Casino (1995) Drama Romance 16 17 Sense and Sensibility (1995) Drama Romance 17 18 Four Rooms (1995) Comedy 18 19 Ace Ventura: When Nature Calls (1995) Comedy	4	5	Father of the Bride Part II (1995)	Comedy
7 8 Tom and Huck (1995) Adventure Children 8 9 Sudden Death (1995) Action 9 10 GoldenEye (1995) Action Adventure Thriller 10 11 American President, The (1995) Comedy Drama Romance 11 12 Dracula: Dead and Loving It (1995) Comedy Horror 12 13 Balto (1995) Adventure Animation Children 13 14 Nixon (1995) Drama 14 15 Cutthroat Island (1995) Action Adventure Romance 15 16 Casino (1995) Crime Drama 16 17 Sense and Sensibility (1995) Drama Romance 17 18 Four Rooms (1995) Comedy 18 19 Ace Ventura: When Nature Calls (1995) Comedy	5	6	Heat (1995)	Action Crime Thriller
8 9 Sudden Death (1995) Action 9 10 GoldenEye (1995) Action Adventure Thriller 10 11 American President, The (1995) Comedy Drama Romance 11 12 Dracula: Dead and Loving It (1995) Comedy Horror 12 13 Balto (1995) Adventure Animation Children 13 14 Nixon (1995) Drama 14 15 Cutthroat Island (1995) Action Adventure Romance 15 16 Casino (1995) Crime Drama 16 17 Sense and Sensibility (1995) Drama Romance 17 18 Four Rooms (1995) Comedy 18 19 Ace Ventura: When Nature Calls (1995) Comedy	6	7	Sabrina (1995)	Comedy Romance
9 10 GoldenEye (1995) Action Adventure Thriller 10 11 American President, The (1995) Comedy Drama Romance 11 12 Dracula: Dead and Loving It (1995) Comedy Horror 12 13 Balto (1995) Adventure Animation Children 13 14 Nixon (1995) Drama 14 15 Cutthroat Island (1995) Action Adventure Romance 15 16 Casino (1995) Crime Drama 16 17 Sense and Sensibility (1995) Drama Romance 17 18 Four Rooms (1995) Comedy 18 19 Ace Ventura: When Nature Calls (1995) Comedy	7	8	Tom and Huck (1995)	Adventure Children
10 11 American President, The (1995) Comedy Drama Romance 11 12 Dracula: Dead and Loving It (1995) Comedy Horror 12 13 Balto (1995) Adventure Animation Children 13 14 Nixon (1995) Drama 14 15 Cutthroat Island (1995) Action Adventure Romance 15 16 Casino (1995) Crime Drama 16 17 Sense and Sensibility (1995) Drama Romance 17 18 Four Rooms (1995) Comedy 18 19 Ace Ventura: When Nature Calls (1995) Comedy	8	9	Sudden Death (1995)	Action
11 12 Dracula: Dead and Loving It (1995) Comedy Horror 12 13 Balto (1995) Adventure Animation Children 13 14 Nixon (1995) Drama 14 15 Cutthroat Island (1995) Action Adventure Romance 15 16 Casino (1995) Crime Drama 16 17 Sense and Sensibility (1995) Drama Romance 17 18 Four Rooms (1995) Comedy 18 19 Ace Ventura: When Nature Calls (1995) Comedy	9	10	GoldenEye (1995)	Action Adventure Thriller
12 13 Balto (1995) Adventure Animation Children 13 14 Nixon (1995) Drama 14 15 Cutthroat Island (1995) Action Adventure Romance 15 16 Casino (1995) Crime Drama 16 17 Sense and Sensibility (1995) Drama Romance 17 18 Four Rooms (1995) Comedy 18 19 Ace Ventura: When Nature Calls (1995) Comedy	10	11	American President, The (1995)	Comedy Drama Romance
13 14 Nixon (1995) Drama 14 15 Cutthroat Island (1995) Action Adventure Romance 15 16 Casino (1995) Crime Drama 16 17 Sense and Sensibility (1995) Drama Romance 17 18 Four Rooms (1995) Comedy 18 19 Ace Ventura: When Nature Calls (1995) Comedy	11	12	Dracula: Dead and Loving It (1995)	Comedy Horror
14 15 Cutthroat Island (1995) Action Adventure Romance 15 16 Casino (1995) Crime Drama 16 17 Sense and Sensibility (1995) Drama Romance 17 18 Four Rooms (1995) Comedy 18 19 Ace Ventura: When Nature Calls (1995) Comedy	12	13	Ba l to (1995)	Adventure Animation Children
15 16 Casino (1995) Crime Drama 16 17 Sense and Sensibility (1995) Drama Romance 17 18 Four Rooms (1995) Comedy 18 19 Ace Ventura: When Nature Calls (1995) Comedy	13	14	Nixon (1995)	Drama
16 17 Sense and Sensibility (1995) Drama Romance 17 18 Four Rooms (1995) Comedy 18 19 Ace Ventura: When Nature Calls (1995) Comedy	14	15	Cutthroat Island (1995)	Action Adventure Romance
17 18 Four Rooms (1995) Comedy 18 19 Ace Ventura: When Nature Calls (1995) Comedy	15	16	Casino (1995)	Crime Drama
18 19 Ace Ventura: When Nature Calls (1995) Comedy	16	17	Sense and Sensibility (1995)	Drama Romance
· · · · · · · · · · · · · · · · · · ·	17	18	Four Rooms (1995)	Comedy
19 20 Money Train (1995) Action Comedy Crime Drama Thriller	18	19	Ace Ventura: When Nature Calls (1995)	Comedy
	19	20	Money Train (1995)	Action Comedy Crime Drama Thriller

In [16]: ratings

Out[16]:

	userld	movield	rating	timestamp
0	1	2	3.5	2005-04-02 23:53:47
1	1	29	3.5	2005-04-02 23:31:16
2	1	32	3.5	2005-04-02 23:33:39
3	1	47	3.5	2005-04-02 23:32:07
4	1	50	3.5	2005-04-02 23:29:40
20000258	138493	68954	4.5	2009-11-13 15:42:00
20000259	138493	69526	4.5	2009-12-03 18:31:48
20000260	138493	69644	3.0	2009-12-07 18:10:57
20000261	138493	70286	5.0	2009-11-13 15:42:24
20000262	138493	71619	2.5	2009-10-17 20:25:36

20000263 rows × 4 columns

```
In [30]: ratings
```

0	u.	t	Г3	01	1
_		_	_	т.	٠,

	userld	movield	rating
0	1	2	3.5
1	1	29	3.5
2	1	32	3.5
3	1	47	3.5
4	1	50	3.5
	•••		
20000258	138493	68954	4.5
20000259	138493	69526	4.5
20000260	138493	69644	3.0
20000261	138493	70286	5.0
20000262	138493	71619	2.5

20000263 rows × 3 columns

```
In [ ]: ratings= ratings.drop('timestamp', axis= 1)
```

In [31]: tags

Out[31]:

	userld	movield	tag	timestamp
0	18	4141	Mark Waters	2009-04-24 18:19:40
1	65	208	dark hero	2013-05-10 01:41:18
2	65	353	dark hero	2013-05-10 01:41:19
3	65	521	noir thriller	2013-05-10 01:39:43
4	65	592	dark hero	2013-05-10 01:41:18
465559	138446	55999	dragged	2013-01-23 23:29:32
465560	138446	55999	Jason Bateman	2013-01-23 23:29:38
465561	138446	55999	quirky	2013-01-23 23:29:38
465562	138446	55999	sad	2013-01-23 23:29:32
465563	138472	923	rise to power	2007-11-02 21:12:47

465564 rows × 4 columns

```
In [32]: del tags['timestamp']
```

```
In [33]: tags
```

ın [33]:	tags				
Out[33]:		userld	movield	tag	
	0	18	4141	Mark Waters	•
	1	65	208	dark hero	
	2	65	353	dark hero	
	3	65	521	noir thriller	
	4	65	592	dark hero	
	465559	138446	55999	dragged	
	465560	138446	55999	Jason Bateman	
	465561	138446	55999	quirky	
		138446	55999	sad	
	465563	138472	923	rise to power	
	465564	rows × 3	columns		
In [34]:	row_0 = #will r			t row, iloc	function is used to select rows and columns by
In [35]:	type(ro	ow_0)			
Out[35]:	pandas.	.core.se	eries.Se	ries	
In [36]:	row_0				
Out[36]:	userId movieId tag Name: 0	Mai	1 414 rk Water e: objec	'S	
In [39]:	row_0['	userId	']		
Out[39]:	18				
In [40]:	'tag' i	in row_6	9		
Out[40]:	True				
In [41]:	tags.he	ead()			
Out[41]:	user	ld movi	eld	tag	
	0	18 41	41 Mark	Waters	
	1 (35 2	208 da	rk hero	

tag	movield	userld		Out[41]:
Mark Waters	4141	18	0	
dark hero	208	65	1	
dark hero	353	65	2	
noir thriller	521	65	3	

65

592

dark hero

```
In [43]:
          tags.index
Out[43]: RangeIndex(start=0, stop=465564, step=1)
In [44]:
         tags.columns
Out[44]: Index(['userId', 'movieId', 'tag'], dtype='object')
In [46]:
         tags.iloc[[0,11,500]] # we are selecting the rows at positions 0, 11, and 500
Out[46]:
               userld movield
                                        tag
             0
                        4141
                                 Mark Waters
                  18
            11
                  65
                                  noir thriller
                         1783
           500
                  342
                        55908 entirely dialogue
```

descriptive Statistics

```
In [48]: ratings
Out[48]:
                      userld movield rating
                  0
                          1
                                   2
                                        3.5
                  1
                          1
                                  29
                                        3.5
                  2
                          1
                                  32
                                        3.5
                  3
                          1
                                  47
                                        3.5
                          1
                                  50
                                        3.5
                                         ...
           20000258 138493
                               68954
                                        4.5
           20000259 138493
                               69526
                                        4.5
           20000260 138493
                               69644
                                        3.0
           20000261 138493
                               70286
                                        5.0
           20000262 138493
                               71619
                                        2.5
          20000263 rows × 3 columns
In [49]: ratings['rating'].describe()
Out[49]: count
                     2.000026e+07
          mean
                     3.525529e+00
          std
                     1.051989e+00
                     5.000000e-01
          min
          25%
                     3.000000e+00
          50%
                     3.500000e+00
```

75%

4.000000e+00 5.000000e+00 Name: rating, dtype: float64

```
In [50]:
         ratings.describe()
Out[50]:
                       userld
                                  movield
                                                rating
           count 2.000026e+07 2.000026e+07 2.000026e+07
           mean 6.904587e+04 9.041567e+03 3.525529e+00
             std 4.003863e+04 1.978948e+04 1.051989e+00
            min 1.000000e+00 1.000000e+00 5.000000e-01
            25% 3.439500e+04 9.020000e+02 3.000000e+00
            50% 6.914100e+04 2.167000e+03 3.500000e+00
            75% 1.036370e+05 4.770000e+03 4.000000e+00
            max 1.384930e+05 1.312620e+05 5.000000e+00
In [52]: ratings['rating'].mean()
Out[52]: 3.5255285642993797
In [53]: ratings.mean()
Out[53]: userId
                     69045.872583
          movieId
                       9041.567330
                          3.525529
          rating
          dtype: float64
In [55]: ratings['rating'].min()
Out[55]: 0.5
In [56]: ratings['rating'].max()
Out[56]: 5.0
In [57]: ratings['rating'].std() # The standard deviation of the ratings is 1.
Out[57]: 1.051988919275684
In [58]: ratings['rating'].mode() # This means that 4 is the most frequent rating
Out[58]: 0
               4.0
          Name: rating, dtype: float64
In [60]: ratings.corr() # correlation
Out[60]:
                     userld
                             movield
                                       rating
                  1.000000 -0.000850 0.001175
            userld
           movield -0.000850
                            1.000000 0.002606
                            0.002606 1.000000
            rating
                   0.001175
In [61]: |filter1=ratings['rating']>10
```

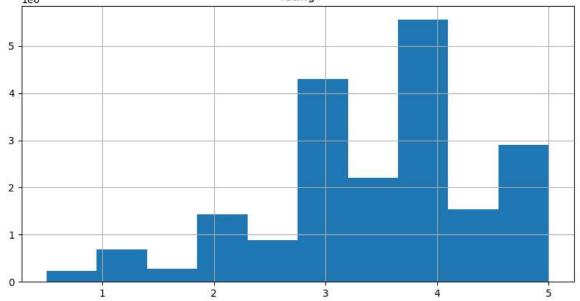
```
In [66]: filter1
Out[66]: 0
                      False
          1
                      False
                      False
          3
                      False
                      False
          20000258
                      False
          20000259
                      False
          20000260
                      False
          20000261
                      False
          20000262
                      False
          Name: rating, Length: 20000263, dtype: bool
In [67]: |filter2= ratings['rating']>0
In [68]: filter2
Out[68]: 0
                      True
          1
                      True
          2
                      True
          3
                      True
          4
                      True
                      . . .
          20000258
                      True
          20000259
                      True
          20000260
                      True
          20000261
                      True
          20000262
                      True
          Name: rating, Length: 20000263, dtype: bool
In [69]: filter2.all()
Out[69]: True
```

data cleaning

```
In [71]: movies.shape
Out[71]: (27278, 3)
In [73]: movies.isnull().any().any()
Out[73]: False
In [74]: # no null value !
In [75]: ratings.shape
Out[75]: (20000263, 3)
In [77]: ratings.isnull().any().any()
Out[77]: False
```

```
In [78]: # no null value in ratings !
In [79]: tags.shape
Out[79]: (465564, 3)
In [81]: tags.isnull().any().any()
Out[81]: True
In [82]: # now we have null value in tags
In [83]: tags=tags.dropna() #will drop all rows in the DataFrame, that have any missing v
In [84]: tags.shape # notice no. of rows have reduced !
Out[84]: (465548, 3)
In [85]: tags.isnull().any().any()
Out[85]: False
In [86]: # now all the missing values is removed
```

data visualisation



```
ratings.boxplot(column='rating', figsize=(10,5))
In [92]:
Out[92]: <Axes: >
           5
           3
            1
                                                      rating
In [95]:
         tags['tag'].head()
Out[95]: 0
                  Mark Waters
          1
                     dark hero
          2
                     dark hero
          3
                noir thriller
          4
                     dark hero
          Name: tag, dtype: object
In [98]:
         movies[['title','genres']].head()
Out[98]:
                                    title
                                                                         genres
           0
                                         Adventure|Animation|Children|Comedy|Fantasy
                          Toy Story (1995)
                            Jumanji (1995)
                                                        Adventure|Children|Fantasy
           2
                   Grumpier Old Men (1995)
                                                                Comedy|Romance
```

Comedy|Drama|Romance

Comedy

Waiting to Exhale (1995)

Father of the Bride Part II (1995)

```
20000253 138493
                   60816
                             4.5
20000254 138493
                    61160
                             4.0
20000255 138493
                   65682
                             4.5
20000256 138493
                   66762
                             4.5
20000257 138493
                   68319
                             4.5
                             4.5
20000258 138493
                   68954
20000259 138493
                   69526
                             4.5
20000260 138493
                   69644
                             3.0
20000261 138493
                   70286
                             5.0
20000262 138493
                   71619
                             2.5
```

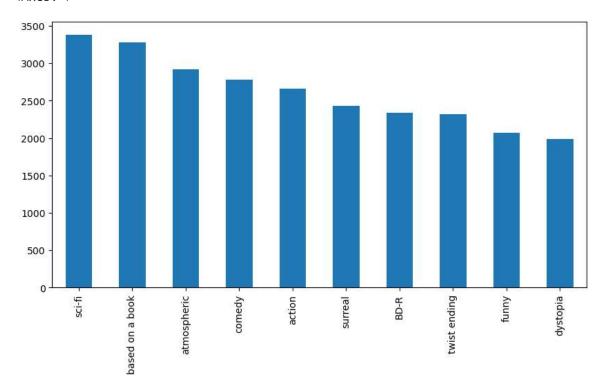
```
In [101]: tags_counts=tags['tag'].value_counts()
```

```
In [104]: tags_counts[10:]
```

```
Out[104]: stylized
                                             1941
          quirky
                                             1906
          dark comedy
                                             1899
          classic
                                             1769
          psychology
                                             1754
          Paul Adelstein
                                                1
          the wig
                                                1
          killer fish
                                                1
          genetically modified monsters
                                                1
          topless scene
                                                1
          Name: tag, Length: 38633, dtype: int64
```

```
In [109]: tags_counts[:10].plot(kind='bar',figsize=(10,5))
```

Out[109]: <Axes: >



filters for slelecting rows

```
In [114]: highly_rated=ratings['rating'] >= 5.0
```

In [116]: ratings[highly_rated][30:50]

Out[116]:

	userld	movield	rating
239	3	50	5.0
242	3	175	5.0
244	3	223	5.0
245	3	260	5.0
246	3	316	5.0
247	3	318	5.0
248	3	329	5.0
252	3	457	5.0
253	3	480	5.0
254	3	490	5.0
256	3	541	5.0
258	3	593	5.0
263	3	858	5.0
264	3	904	5.0
267	3	924	5.0
268	3	953	5.0
271	3	1060	5.0
272	3	1073	5.0
275	3	1084	5.0
276	3	1089	5.0

In [117]: is_action=movies['genres'].str.contains("Action")

In [119]: movies[is_action][5:20]

Out	11101	
UILL	1 1 1 9 1	1 2
00.0		

3	genres	movield title		
r	Action Crime Thrille	Assassins (1995)	23	22
3	Action Crime Drama	Dead Presidents (1995)	42	41
/	Action Adventure Fantasy	Mortal Kombat (1995)	44	43
r	Action Drama Thrille	Guardian Angel (1994)	51	50
r	Action Sci-Fi Thrille	Lawnmower Man 2: Beyond Cyberspace (1996)	66	65
r	Action Comedy Horror Thrille	From Dusk Till Dawn (1996)	70	69
1	Action	Fair Game (1995)	71	70
r	Action Sci-Fi Thrille	Screamers (1995)	76	75
r	Action Crime Drama Thrille	Crossing Guard, The (1995)	78	77
à	Action Adventure Drama	White Squall (1996)	86	85
r	Action Thrille	Nick of Time (1995)	89	88
r	Action Adventure Thrille	Broken Arrow (1996)	95	93
r	Action Thrille	Shopping (1994)	98	96
r	Action Drama Wa	Braveheart (1995)	110	108
)	Action Adventure Comedy Crime	Rumble in the Bronx (Hont faan kui) (1995)	112	110

In [120]: movies[is_action].head(15)

Out[120]:

	movield	title	genres
5	6	Heat (1995)	Action Crime Thriller
8	9	Sudden Death (1995)	Action
9	10	GoldenEye (1995)	Action Adventure Thriller
14	. 15	Cutthroat Island (1995)	Action Adventure Romance
19	20	Money Train (1995)	Action Comedy Crime Drama Thriller
22	23	Assassins (1995)	Action Crime Thriller
41	42	Dead Presidents (1995)	Action Crime Drama
43	44	Mortal Kombat (1995)	Action Adventure Fantasy
50	51	Guardian Angel (1994)	Action Drama Thriller
65	66	Lawnmower Man 2: Beyond Cyberspace (1996)	Action Sci-Fi Thriller
69	70	From Dusk Till Dawn (1996)	Action Comedy Horror Thriller
70	71	Fair Game (1995)	Action
75	76	Screamers (1995)	Action Sci-Fi Thriller
77	78	Crossing Guard, The (1995)	Action Crime Drama Thriller
85	86	White Squall (1996)	Action Adventure Drama

In []: