```
In [1]: import pandas as pd
In [2]:
        movies = pd.read csv(r"C:\Users\nilesh n ingole\Downloads\movie.csv")
         ratings = pd.read csv(r"C:\Users\nilesh n ingole\Downloads\rating.csv")
In [3]:
         tags = pd.read csv(r"C:\Users\nilesh n ingole\Downloads\tag.csv")
In [5]:
         tags.head()
             userld movield
                                                   timestamp
                                      tag
                 18
                        4141
                              Mark Waters
                                           2009-04-24 18:19:40
         1
                65
                         208
                                 dark hero
                                           2013-05-10 01:41:18
         2
                65
                         353
                                           2013-05-10 01:41:19
                                 dark hero
         3
                65
                         521
                                noir thriller
                                           2013-05-10 01:39:43
                                           2013-05-10 01:41:18
                65
                         592
                                 dark hero
In [6]: print(type(movies))
        <class 'pandas.core.frame.DataFrame'>
In [7]: movies.head(20)
              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
                                    Waiting to Exhale (1995)
                    4
                                                                               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
                                       Tom and Huck (1995)
                    8
                                                                                     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)
                   15
                                      Cutthroat Island (1995)
                                                                              Action|Adventure|Romance
          14
         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
         19
                   20
                                         Money Train (1995)
                                                                     Action|Comedy|Crime|Drama|Thriller
In [8]: ratings.head()
Out[8]:
             userld movield rating
                                              timestamp
         0
                 1
                                     2005-04-02 23:53:47
                           2
                                 3.5
         1
                          29
                                 3.5 2005-04-02 23:31:16
         2
                 1
                          32
                                     2005-04-02 23:33:39
                                 3.5
                                     2005-04-02 23:32:07
                                 3.5 2005-04-02 23:29:40
                          50
In [9]: del ratings['timestamp']
```

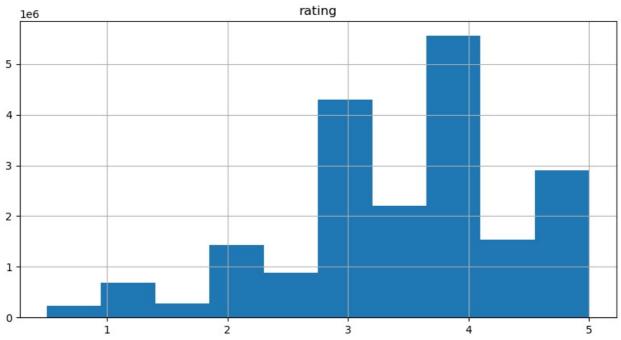
del tags['timestamp']

for current analysis we removed timestamp

```
In [10]: row_0 = tags.iloc[0]
In [11]: type(row 0)
Out[11]: pandas.core.series.Series
In [12]: print(row_0)
        userId
                           4141
        movieId
                   Mark Waters
        tag
        Name: 0, dtype: object
In [13]: row_0.index
Out[13]: Index(['userId', 'movieId', 'tag'], dtype='object')
In [14]: row_0['userId']
Out[14]: 18
In [15]: 'rating' in row 0
Out[15]: False
In [16]: row 0.name
Out[16]: 0
In [17]: row_0 = row_0.rename('fristRow')
          row_0.name
Out[17]: 'fristRow'
          dataframes
In [18]: tags.head()
          userld movield
Out[18]:
                                   tag
          0
                18
                      4141 Mark Waters
          1
               65
                       208
                              dark hero
          2
                65
                       353
                              dark hero
          3
                65
                       521
                             noir thriller
                65
                       592
                              dark hero
          4
In [19]: tags.index
Out[19]: RangeIndex(start=0, stop=465564, step=1)
In [20]: tags.iloc[ [0,11,500] ]
Out[20]:
              userld movield
                                       tag
                  18
                        4141
                                Mark Waters
           11
                 65
                        1783
                                  noir thriller
          500
                342
                       55908 entirely dialogue
In [21]: #discriptive statistics
          ''' let's look how the ratings are distributed! '''
          ratings['rating'].describe()
Out[21]: count
                   2.000026e+07
                   3.525529e+00
          mean
          std
                   1.051989e+00
                   5.000000e-01
          min
          25%
                   3.000000e+00
          50%
                   3.500000e+00
          75%
                   4.000000e+00
                   5.000000e+00
          max
          Name: rating, dtype: float64
In [22]: ratings.describe()
```

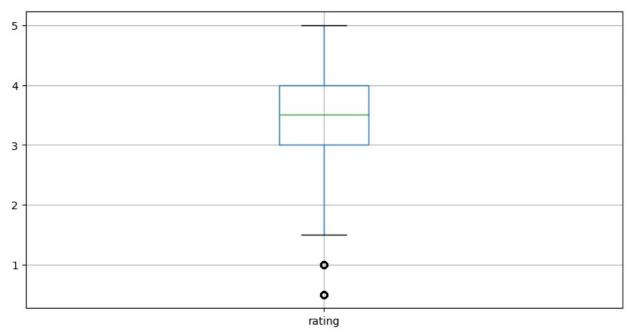
```
Out[22]:
                     userld
                                movield
                                              rating
         count 2.000026e+07 2.000026e+07 2.000026e+07
          mean 6.904587e+04 9.041567e+03 3.525529e+00
           std 4.003863e+04 1.978948e+04 1.051989e+00
           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 [23]: ratings['rating'].mean()
Out[23]: 3.5255285642993797
In [24]: ratings.mean()
Out[24]: userId
                    69045.872583
                   9041.567330
          movieId
          rating
                     3.525529
          dtype: float64
In [25]: ratings['rating'].min()
Out[25]: 0.5
In [26]: ratings['rating'].max()
Out[26]: 5.0
In [27]: ratings['rating'].std()
Out[27]: 1.051988919275684
In [28]: ratings['rating'].mode()
Out[28]: 0 4.0
         Name: rating, dtype: float64
In [29]: ratings.corr()
Out[29]:
                    userld movield
                                      rating
          userId 1.000000 -0.000850 0.001175
         movield -0.000850 1.000000 0.002606
           rating 0.001175 0.002606 1.000000
In [30]: filter1 = ratings['rating'] > 10
         print(filter1)
         filter1.any()
        0
                    False
        1
                    False
        2
                    False
        3
                    False
                    False
        20000258
                  False
        20000259
                    False
        20000260
                    False
        20000261
                    False
        20000262
                    False
        Name: rating, Length: 20000263, dtype: bool
Out[30]: False
In [31]: filter2= ratings['rating'] > 0
         filter2.all()
Out[31]: True
In [32]: # data cleaning : handling missing data
         movies.shape
Out[32]: (27278, 3)
```

```
In [33]: movies.isnull().any().any()
Out[33]: False
In [34]: ratings.shape
Out[34]: (20000263, 3)
In [35]: ratings.isnull().any().any()
Out[35]: False
In [36]: tags.shape
Out[36]: (465564, 3)
In [37]: tags.isnull().any().any()
Out[37]: True
In [38]: # we have some tags wich are NULL
         tags=tags.dropna()
In [39]: tags.isnull().any().any()
Out[39]: False
In [40]: tags.shape
Out[40]: (465548, 3)
         data visualisation
In [41]: %matplotlib inline
In [42]: ratings.hist(column='rating',figsize=(10,5))
Out[42]: array([[<Axes: title={'center': 'rating'}>]], dtype=object)
                                                         rating
           1e6
```



In [43]: ratings.boxplot(column='rating', figsize=(10,5))

Out[43]: <Axes: >



```
In [44]: # slicing out column
          tags['tag'].head()
Out[44]:
          0
                  Mark Waters
           1
                    dark hero
                    dark hero
           3
                noir thriller
                    dark hero
          Name: tag, dtype: object
In [45]: movies[['title','genres']].head()
Out[45]:
                                    title
                                                                           genres
          0
                          Toy Story (1995) Adventure|Animation|Children|Comedy|Fantasy
                           Jumanji (1995)
                                                          Adventure|Children|Fantasy
                   Grumpier Old Men (1995)
          2
                                                                 Comedy|Romance
          3
                    Waiting to Exhale (1995)
                                                           Comedy|Drama|Romance
          4 Father of the Bride Part II (1995)
                                                                          Comedy
In [46]: ratings[-10:]
```

[46]:		userld	movield	rating
	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
	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

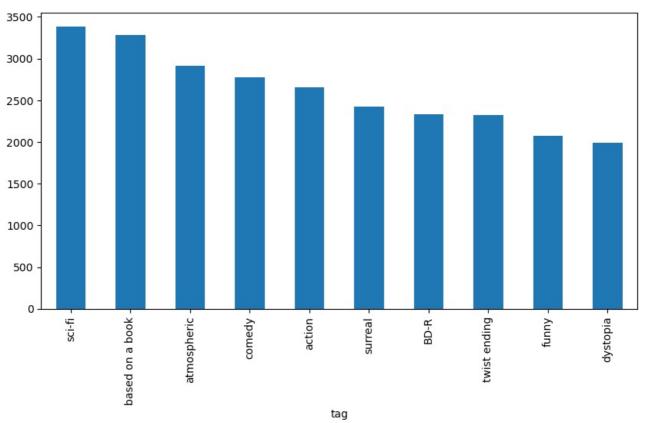
Out

```
In [47]: tag_counts =tags['tag'].value_counts()
```

```
tag_counts[-10:]
Out[47]: tag
                                            1
          missing child
                                            1
1
          Ron Moore
          Citizen Kane
          mullet
                                            1
          biker gang
          Paul Adelstein
          the wig
          killer fish
                                            1
          genetically modified monsters
                                            1
          topless scene
         Name: count, dtype: int64
```

In [48]: tag_counts[:10].plot(kind='bar',figsize=(10,5))

Out[48]: <Axes: xlabel='tag'>



In [49]: #filter for selecting rowas

In [50]: is_highly_rated = ratings['rating'] >= 5.0
ratings[is_highly_rated][30:50]

	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

Out[50]:

In [51]: is_action= movies['genres'].str.contains('Action')
 movies[is_action][5:15]

Out[51]: movield title genres 22 23 Action|Crime|Thriller Assassins (1995) 41 42 Dead Presidents (1995) Action|Crime|Drama 43 44 Mortal Kombat (1995) Action|Adventure|Fantasy 50 51 Guardian Angel (1994) Action|Drama|Thriller Action|Sci-Fi|Thriller Lawnmower Man 2: Beyond Cyberspace (1996) 66 65 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 [52]: movies[is_action].head(15)

```
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
                    20
                                                Money Train (1995) Action|Comedy|Crime|Drama|Thriller
           19
           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 [53]:
          ratings_count=ratings[['movieId','rating']].groupby('rating').count()
 In [ ]:
In [54]:
           ratings_count
Out[54]:
                   movield
           rating
                   239125
              0.5
              1.0
                   680732
              1.5
                   279252
                  1430997
              2.0
              2.5
                    883398
              3.0 4291193
              3.5 2200156
                  5561926
              4.0
                  1534824
              5.0 2898660
In [55]: average rating=ratings[['movieId','rating']].groupby('movieId').mean()
In [56]: average_rating.head()
Out[56]:
                       rating
           movield
                 1 3.921240
                 2 3.211977
                 3 3.151040
                 4 2.861393
                 5 3.064592
In [57]: movie_count=ratings[['movieId','rating']].groupby('movieId').count()
In [58]: movie_count.head()
```

title

genres

Out[52]:

movield

```
Out[58]:
                    rating
           movield
                 1 49695
                 2
                    22243
                   12735
                     2756
                    12161
          movie_count = ratings[['movieId','rating']].groupby('movieId').count()
In [59]:
           movie count.tail()
Out[59]:
                    rating
           movield
            131254
            131256
            131258
            131260
            131262
In [60]:
          tags.head()
Out[60]:
              userld movield
                                       tag
           0
                  18
                         4141
                               Mark Waters
                 65
                          208
                                  dark hero
           2
                 65
                          353
                                  dark hero
           3
                                 noir thriller
                 65
                          521
                 65
                          592
                                  dark hero
          movies.head()
In [61]:
Out[61]:
                                                title
              movield
                                                                                       genres
           0
                                    Toy Story (1995) Adventure|Animation|Children|Comedy|Fantasy
                    1
           1
                    2
                                                                      Adventure|Children|Fantasy
                                      Jumanji (1995)
           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
In [62]:
          t = movies.merge(tags, on='movieId',how='inner')
           t.head()
Out[62]:
              movield
                                  title
                                                                          genres
                                                                                  userld
                                                                                                                         tag
           0
                                       Adventure|Animation|Children|Comedy|Fantasy
                                                                                                                    Watched
                    1 Toy Story (1995)
                                                                                    1644
           1
                    1 Toy Story (1995)
                                       Adventure|Animation|Children|Comedy|Fantasy
                                                                                    1741
                                                                                                           computer animation
           2
                       Toy Story (1995)
                                       Adventure|Animation|Children|Comedy|Fantasy
                                                                                    1741
                                                                                                       Disney animated feature
           3
                       Toy Story (1995)
                                       Adventure|Animation|Children|Comedy|Fantasy
                                                                                    1741
                                                                                                              Pixar animation
                    1 Toy Story (1995) Adventure|Animation|Children|Comedy|Fantasy
                                                                                    1741 Téa Leoni does not star in this movie
           4
          avg ratings = ratings.groupby('movieId', as index=False).mean()
           del avg_ratings['userId']
           avg ratings.head()
```

```
Out[63]:
              movield
                           rating
           0
                        3 921240
                     1
                        3.211977
           2
                        3.151040
           3
                        2.861393
                        3 064592
                     5
In [64]: box office =movies.merge(avg ratings,on= 'movieId' , how='inner')
           box_office.tail()
Out[64]:
                   movield
                                                    title
                                                                          genres rating
           26739
                    131254
                             Kein Bund für's Leben (2007)
                                                                                     4.0
                                                                         Comedy
           26740
                    131256
                            Feuer, Eis & Dosenbier (2002)
                                                                         Comedy
                                                                                     4.0
           26741
                    131258
                                       The Pirates (2014)
                                                                       Adventure
                                                                                     2.5
           26742
                    131260
                                    Rentun Ruusu (2001)
                                                                 (no genres listed)
                                                                                     3.0
           26743
                    131262
                                        Innocence (2014) Adventure|Fantasy|Horror
                                                                                     40
In [65]:
          is highly rated = box office['rating']>=4.0
           box_office[is_highly_rated][-5:]
                   movield
                                                                  title
                                                                                               rating
                                                                                        aenres
           26737
                    131250
                                                 No More School (2000)
                                                                                                   4.0
                                                                                       Comedy
           26738
                    131252
                            Forklift Driver Klaus: The First Day on the Jo...
                                                                                 Comedy|Horror
                                                                                                   4.0
           26739
                    131254
                                           Kein Bund für's Leben (2007)
                                                                                       Comedy
                                                                                                   4.0
           26740
                    131256
                                          Feuer, Eis & Dosenbier (2002)
                                                                                       Comedy
                                                                                                   4.0
                                                      Innocence (2014) Adventure|Fantasy|Horror
           26743
                    131262
                                                                                                   4.0
In [66]: is_Adventure = box_office['genres'].str.contains('Adventure')
           box office[is Adventure][:5]
               movield
                                         title
                                                                                             rating
                                                                                  aenres
            0
                                              Adventure|Animation|Children|Comedy|Fantasy
                      1
                              Toy Story (1995)
                                                                                          3.921240
            1
                      2
                               Jumanji (1995)
                                                                Adventure|Children|Fantasy
                                                                                           3.211977
            7
                      8
                         Tom and Huck (1995)
                                                                        Adventure|Children
                                                                                          3.142049
            9
                     10
                                                                   Action|Adventure|Thriller
                            GoldenEye (1995)
                                                                                          3 430029
           12
                     13
                                 Balto (1995)
                                                              Adventure|Animation|Children 3.272416
In [67]:
           box_office[is_Adventure & is_highly_rated][-5:]
                                                                    title
                   movield
                                                                                                             genres
                                                                                                                     rating
                    130586
                                          Itinerary of a Spoiled Child (1988)
           26611
                                                                                                    Adventure|Drama
                                                                                                                         4.5
           26655
                    130996
                                                The Beautiful Story (1992)
                                                                                            Adventure|Drama|Fantasy
                                                                                                                         5.0
           26667
                    131050
                            Stargate SG-1 Children of the Gods - Final Cut...
                                                                                              Adventure|Sci-Fi|Thriller
                                                                                                                         5.0
           26736
                    131248
                                                    Brother Bear 2 (2006) Adventure|Animation|Children|Comedy|Fantasy
                                                                                                                         4.0
                    131262
           26743
                                                        Innocence (2014)
                                                                                             Adventure|Fantasy|Horror
                                                                                                                         4.0
In [68]:
           movies.head()
Out[68]:
                                                 title
              movield
                                                                                          genres
           0
                     1
                                      Toy Story (1995)
                                                       Adventure|Animation|Children|Comedy|Fantasy
                     2
           1
                                       Jumanji (1995)
                                                                        Adventure|Children|Fantasy
           2
                     3
                              Grumpier Old Men (1995)
                                                                                 Comedy|Romance
           3
                     4
                               Waiting to Exhale (1995)
                                                                          Comedy|Drama|Romance
           4
                        Father of the Bride Part II (1995)
                                                                                          Comedy
In [69]: movie genres = movies['genres'].str.split('|', expand= True)
```

```
In [70]: movie_genres[:10]
Out[70]:
                               1
                                         2
                                                  3
                                                           4
                                                                 5
                                                                        6
                                                                              7
                                                                                    8
                                                                                           9
                                                     Fantasy
          0 Adventure
                        Animation
                                   Children
                                            Comedy
                                                              None
                                                                    None
                                                                          None
                                                                                 None
                                                                                       None
             Adventure
                          Children
                                    Fantasy
                                               None
                                                       None
                                                              None
                                                                   None
                                                                          None
                                                                                 None
                                                                                       None
          2
               Comedy
                        Romance
                                      None
                                               None
                                                       None
                                                              None
                                                                    None
                                                                           None
                                                                                 None
                                                                                       None
          3
               Comedy
                           Drama
                                  Romance
                                               None
                                                       None
                                                              None
                                                                    None
                                                                           None
                                                                                 None
                                                                                       None
          4
               Comedy
                            None
                                               None
                                      None
                                                       None
                                                              None
                                                                    None
                                                                           None
                                                                                 None
                                                                                       None
          5
                 Action
                           Crime
                                     Thriller
                                               None
                                                       None
                                                              None
                                                                    None
                                                                           None
                                                                                 None
                                                                                       None
          6
               Comedy
                        Romance
                                      None
                                               None
                                                       None
                                                              None
                                                                    None
                                                                           None
                                                                                 None
                                                                                       None
             Adventure
          7
                          Children
                                      None
                                               None
                                                       None
                                                              None
                                                                    None
                                                                           None
                                                                                 None
                                                                                       None
          8
                 Action
                                      None
                                               None
                                                                                 None
                            None
                                                       None
                                                              None
                                                                    None
                                                                          None
                                                                                       None
          9
                 Action Adventure
                                     Thriller
                                                        None
                                                              None
                                                                    None
                                                                           None
                                                                                 None
                                                                                       None
In [71]:
         movie genres['isComedy']= movies['genres'].str.contains('comedy')
In [72]:
          movie genres[:10]
Out[72]:
                     0
                               1
                                         2
                                                  3
                                                           4
                                                                 5
                                                                        6
                                                                              7
                                                                                    8
                                                                                           9 isComedy
                                            Comedy
          0 Adventure
                        Animation
                                   Children
                                                     Fantasy None
                                                                    None
                                                                          None
                                                                                 None
                                                                                       None
                                                                                                  False
          1
             Adventure
                          Children
                                                                                                  False
                                    Fantasy
                                               None
                                                                           None
                                                                                 None
                                                                                       None
                                                       None
                                                              None
                                                                    None
          2
               Comedy
                        Romance
                                      None
                                               None
                                                              None
                                                                    None
                                                                           None
                                                                                       None
                                                                                                  False
                                                       None
                                                                                 None
          3
               Comedy
                           Drama
                                  Romance
                                               None
                                                       None
                                                              None
                                                                    None
                                                                           None
                                                                                 None
                                                                                       None
                                                                                                  False
          4
                                                                                                  False
               Comedy
                            None
                                      None
                                               None
                                                              None
                                                       None
                                                                    None
                                                                          None
                                                                                 None
                                                                                       None
          5
                 Action
                           Crime
                                     Thriller
                                               None
                                                       None
                                                              None
                                                                    None
                                                                           None
                                                                                 None
                                                                                       None
                                                                                                  False
          6
               Comedy
                        Romance
                                      None
                                               None
                                                       None
                                                              None
                                                                    None
                                                                           None
                                                                                                  False
                                                                                 None
                                                                                       None
          7
             Adventure
                          Children
                                      None
                                               None
                                                       None
                                                              None
                                                                    None
                                                                           None
                                                                                 None
                                                                                       None
                                                                                                  False
          8
                                                                                                  False
                 Action
                                               None
                            None
                                      None
                                                              None
                                                                           None
                                                                                 None
                                                                                       None
                                                       None
                                                                    None
          9
                                     Thriller
                 Action Adventure
                                               None
                                                       None
                                                              None
                                                                    None
                                                                           None
                                                                                 None
                                                                                       None
                                                                                                  False
In [73]: movies.tail()
Out[73]:
                 movield
                                                 title
                                                                     genres
          27273
                 131254
                           Kein Bund für's Leben (2007)
                                                                     Comedy
          27274
                  131256
                                                                     Comedy
                          Feuer, Eis & Dosenbier (2002)
          27275
                  131258
                                    The Pirates (2014)
                                                                   Adventure
          27276
                  131260
                                  Rentun Ruusu (2001)
                                                             (no genres listed)
          27277
                  131262
                                     Innocence (2014) Adventure|Fantasy|Horror
In [74]:
         tags.dtypes
Out[74]:
                        int64
          userId
                        int64
           movieId
           tag
                       object
           dtype: object
In [75]: tags.head()
Out[75]:
             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
          average_rating = ratings[['movieId','rating']].groupby('movieId', as_index=False).mean()
In [77]:
          average rating.tail()
```

Out[77]:		movield	rating
	26739	131254	4.0
	26740	131256	4.0
	26741	131258	2.5
	26742	131260	3.0
	26743	131262	4.0

In []:

Loading [MathJax]/extensions/Safe.js