```
In [1]: import numpy as np
          import pandas as pd
          import warnings
          warnings.filterwarnings('ignore')
 In [2]: movies = pd.read_csv('movies.csv')
          movies.set_index('Id',inplace = True)
          movies.head()
 Out[2]:
                                    Title
                                                                         Genres
           ld
            1
                           Toy Story (1995) Adventure|Animation|Children|Comedy|Fantasy
                            Jumanji (1995)
                                                         Adventure|Children|Fantasy
                    Grumpier Old Men (1995)
                                                                Comedy|Romance
                     Waiting to Exhale (1995)
                                                           Comedy|Drama|Romance
            5 Father of the Bride Part II (1995)
                                                                        Comedy
 In [3]: ratings = pd.read_csv('ratings.csv')
          ratings.head()
 Out[3]:
              Id Movield Rating Timestamp
           0
                             4.0
                                 964982703
           1
                            4.0
                                964981247
                       6
                            4.0
                                 964982224
           3
                      47
                            5.0 964983815
           4 1
                      50
                            5.0 964982931
 In [4]: movies['rating'] = ratings.groupby('MovieId')['Rating'].mean()
 In [5]: movies.head()
 Out[5]:
                                    Title
                                                                         Genres
                                                                                   rating
                           Toy Story (1995) Adventure|Animation|Children|Comedy|Fantasy 3.920930
            2
                            Jumanji (1995)
                                                         Adventure|Children|Fantasy 3.431818
                    Grumpier Old Men (1995)
                                                                 Comedy|Romance 3.259615
                     Waiting to Exhale (1995)
                                                           Comedy|Drama|Romance 2.357143
            5 Father of the Bride Part II (1995)
                                                                        Comedy 3.071429
 In [6]: movies.info()
          <class 'pandas.core.frame.DataFrame'>
          Int64Index: 9742 entries, 1 to 193609
          Data columns (total 3 columns):
                Column Non-Null Count Dtype
                Title
                         9742 non-null
                                           object
                Genres 9742 non-null
                                           object
                rating 9724 non-null
                                           float64
          dtypes: float64(1), object(2)
          memory usage: 304.4+ KB
 In [7]: movies['num of rating'] = ratings.groupby('MovieId')['Rating'].count()
          movies.head()
 Out[7]:
                                    Title
                                                                         Genres
                                                                                   rating num of rating
           Ιd
            1
                           Toy Story (1995)
                                         Adventure|Animation|Children|Comedy|Fantasy 3.920930
                                                                                                 215.0
            2
                            Jumanji (1995)
                                                         Adventure|Children|Fantasy 3.431818
                                                                                                 110.0
                    Grumpier Old Men (1995)
                                                                 Comedy|Romance 3.259615
                                                                                                  52.0
                     Waiting to Exhale (1995)
                                                           Comedy|Drama|Romance 2.357143
                                                                                                   7.0
                                                                        Comedy 3.071429
            5 Father of the Bride Part II (1995)
                                                                                                  49.0
In [15]: comed = movies[movies.Genres.apply(lambda x: "Comedy" in x)]
```

In [16]: comed Out[16]: Title Genres rating num of rating ld 1 Toy Story (1995) Adventure|Animation|Children|Comedy|Fantasy 3.920930 215.0 3 Comedy|Romance 3.259615 Grumpier Old Men (1995) 52.0 4 Waiting to Exhale (1995) Comedy|Drama|Romance 2.357143 7.0 Father of the Bride Part II (1995) 5 Comedy 3.071429 49.0 Sabrina (1995) Comedy|Romance 3.185185 54.0 193565 Gintama: The Movie (2010) Action|Animation|Comedy|Sci-Fi 3.500000 1.0 193571 Silver Spoon (2014) Comedy|Drama 4.000000 1.0 193581 Black Butler: Book of the Atlantic (2017) Action|Animation|Comedy|Fantasy 4.000000 1.0 No Game No Life: Zero (2017) Animation|Comedy|Fantasy 3.500000 193583 1.0 193609 Andrew Dice Clay: Dice Rules (1991) Comedy 4.000000 1.0 3756 rows × 4 columns In [20]: comed = comed[comed['num of rating']>100].sort\_values("rating",ascending = False)

In [22]: comed

TH	[22]	Comea	

num of rating	rating	Genres	Title	
440.0	4.000004	A 11 IA I A 10 I I I I I I I I	D: D:1 Ti (4007)	Id
142.0	4.232394	Action Adventure Comedy Fantasy Romance	Princess Bride, The (1987)	1197
307.0	4.197068	Comedy Crime Drama Thriller	Pulp Fiction (1994)	296
120.0	4.183333	•	Amelie (Fabuleux destin d'Amélie Poulain, Le)	4973
329.0		Comedy Drama Romance War	Forrest Gump (1994)	356
136.0	4.161765		Monty Python and the Holy Grail (1975)	1136
181.0	4.116022	Comedy Crime Drama Thriller	Fargo (1996)	608
102.0	4.039216		Trainspotting (1996)	778
171.0	4.038012		Back to the Future (1985)	1270
141.0	3.960993	Adventure Animation Children Comedy	Finding Nemo (2003)	6377
143.0	3.944056	Comedy Fantasy Romance	Groundhog Day (1993)	1265
106.0	3.924528	Comedy Crime	Big Lebowski, The (1998)	1732
215.0	3.920930	Adventure Animation Children Comedy Fantasy	Toy Story (1995)	1
119.0	3.873950	Children Comedy Fantasy Musical	Willy Wonka & the Chocolate Factory (1971)	1073
132.0	3.871212	Adventure Animation Children Comedy Fantasy	Monsters, Inc. (2001)	4886
170.0	3.867647	Adventure Animation Children Comedy Fantasy Ro	Shrek (2001)	4306
104.0	3.855769	Comedy	Clerks (1994)	223
109.0	3.839450	Comedy	Ferris Bueller's Day Off (1986)	2918
125.0	3.836000	Action Adventure Animation Children Comedy	Incredibles, The (2004)	8961
125.0	3.812000	Comedy Drama Sci-Fi	Truman Show, The (1998)	1682
183.0	3.792350	Adventure Animation Children Comedy Musical	Aladdin (1992)	588
113.0	3.778761	Comedy Drama	Breakfast Club, The (1985)	1968
149.0	3.778523	Action Adventure Comedy Fantasy	Pirates of the Caribbean: The Curse of the Bla	6539
120.0	3.775000	Action Comedy Sci-Fi	Ghostbusters (a.k.a. Ghost Busters) (1984)	2716
116.0	3.745690	Action Adventure Comedy Sci-Fi	Fifth Element, The (1997)	1527
105.0	3.676190	Comedy Romance	There's Something About Mary (1998)	1923
103.0	3.519417	Comedy Romance	Four Weddings and a Funeral (1994)	357
178.0	3.497191	Action Adventure Comedy Romance Thriller	True Lies (1994)	380
165.0	3.487879	Action Comedy Sci-Fi	Men in Black (a.k.a. MIB) (1997)	1580
135.0	3.485185	Comedy Romance	Pretty Woman (1990)	597
106.0	3.471698	Comedy Drama Romance	Sleepless in Seattle (1993)	539
115.0	3.434783	Comedy Drama Fantasy Romance Thriller	Ghost (1990)	587
144.0	3.388889	Comedy Drama	Mrs. Doubtfire (1993)	500
103.0	3.378641	Comedy Romance	American Pie (1999)	2706
104.0	3.293269	Comedy Romance	Clueless (1995)	39
121.0	3.198347	Action Adventure Comedy	Austin Powers: The Spy Who Shagged Me (1999)	2683
157.0	3.184713	Action Comedy Crime Fantasy	Mask, The (1994)	367
133.0		Adventure Comedy	Dumb & Dumber (Dumb and Dumber) (1994)	231
161.0	3.040373	,	Ace Ventura: Pet Detective (1994)	344
116.0		Children Comedy	Home Alone (1990)	586
		S.ma. S.njoomouy		

In [ ]: