

project of data analysis on movies . using python lib : numpy , pandas , matplotlib , seaborn

```
# 10 k hours !
```

```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
```

```
data = pd.read_csv(r"C:\Users\omkar\Downloads\archive\IMDB-Movie-Data.csv")
data
```

	Rank	Title	Genre \
0	1	Guardians of the Galaxy	Action,Adventure,Sci-Fi
1	2	Prometheus	Adventure,Mystery,Sci-Fi
2	3	Split	Horror,Thriller
3	4	Sing	Animation,Comedy,Family
4	5	Suicide Squad	Action,Adventure,Fantasy
..
995	996	Secret in Their Eyes	Crime,Drama,Mystery
996	997	Hostel: Part II	Horror
997	998	Step Up 2: The Streets	Drama,Music,Romance
998	999	Search Party	Adventure,Comedy
999	1000	Nine Lives	Comedy,Family,Fantasy

	Description
Director \	
0	A group of intergalactic criminals are forced ...
James Gunn	
1	Following clues to the origin of mankind, a te... Ridley Scott
2	Three girls are kidnapped by a man with a diag... M. Night Shyamalan
3	In a city of humanoid animals, a hustling thea... Christophe Lourdelet
4	A secret government agency recruits some of th... David Ayer
..	...
...	
995	A tight-knit team of rising investigators, alo... Billy Ray
996	Three American college students studying abroa... Eli Roth
997	Romantic sparks occur between two dance studen... Jon M. Chu
998	A pair of friends embark on a mission to reuni... Scot

Armstrong

999 A stuffy businessman finds himself trapped ins... Barry Sonnenfeld

	Actors	Year	\		
0	Chris Pratt, Vin Diesel, Bradley Cooper, Zoe S...	2014			
1	Noomi Rapace, Logan Marshall-Green, Michael Fa...	2012			
2	James McAvoy, Anya Taylor-Joy, Haley Lu Richar...	2016			
3	Matthew McConaughey, Reese Witherspoon, Seth Ma...	2016			
4	Will Smith, Jared Leto, Margot Robbie, Viola D...	2016			
..			
995	Chiwetel Ejiofor, Nicole Kidman, Julia Roberts...	2015			
996	Lauren German, Heather Matarazzo, Bijou Philli...	2007			
997	Robert Hoffman, Briana Evigan, Cassie Ventura,...	2008			
998	Adam Pally, T.J. Miller, Thomas Middleditch, Sh...	2014			
999	Kevin Spacey, Jennifer Garner, Robbie Amell, Ch...	2016			
	Runtime (Minutes)	Rating	Votes	Revenue (Millions)	Metascore
0	121	8.1	757074	333.13	76.0
1	124	7.0	485820	126.46	65.0
2	117	7.3	157606	138.12	62.0
3	108	7.2	60545	270.32	59.0
4	123	6.2	393727	325.02	40.0
..
995	111	6.2	27585	NaN	45.0
996	94	5.5	73152	17.54	46.0
997	98	6.2	70699	58.01	50.0
998	93	5.6	4881	NaN	22.0
999	87	5.3	12435	19.64	11.0

[1000 rows x 12 columns]

DISPLAY TOP 10 ROWS :

data.head(10)

	Rank	Title	Genre	\
0	1	Guardians of the Galaxy	Action,Adventure,Sci-Fi	
1	2	Prometheus	Adventure,Mystery,Sci-Fi	

2	3	Split	Horror,Thriller
3	4	Sing	Animation,Comedy,Family
4	5	Suicide Squad	Action,Adventure,Fantasy
5	6	The Great Wall	Action,Adventure,Fantasy
6	7	La La Land	Comedy,Drama,Music
7	8	Mindhorn	Comedy
8	9	The Lost City of Z	Action,Adventure,Biography
9	10	Passengers	Adventure,Drama,Romance

Description		
Director \		
0	A group of intergalactic criminals are forced ...	James Gunn
1	Following clues to the origin of mankind, a te...	Ridley Scott
2	Three girls are kidnapped by a man with a diag...	M. Night Shyamalan
3	In a city of humanoid animals, a hustling thea...	Christophe Lourdelet
4	A secret government agency recruits some of th...	David Ayer
5	European mercenaries searching for black powde...	Yimou Zhang
6	A jazz pianist falls for an aspiring actress i...	Damien Chazelle
7	A has-been actor best known for playing the ti...	Sean Foley
8	A true-life drama, centering on British explor...	James Gray
9	A spacecraft traveling to a distant colony pla...	Morten Tyldum

Actors			Year	Runtime
(Minutes) \				
0	Chris Pratt, Vin Diesel, Bradley Cooper, Zoe S...	2014		121
1	Noomi Rapace, Logan Marshall-Green, Michael Fa...	2012		124
2	James McAvoy, Anya Taylor-Joy, Haley Lu Richar...	2016		117
3	Matthew McConaughey, Reese Witherspoon, Seth Ma...	2016		108
4	Will Smith, Jared Leto, Margot Robbie, Viola D...	2016		123
5	Matt Damon, Tian Jing, Willem Dafoe, Andy Lau	2016		103
6	Ryan Gosling, Emma Stone, Rosemarie DeWitt, J....	2016		128
7	Essie Davis, Andrea Riseborough, Julian Barrat...	2016		

```

89
8 Charlie Hunnam, Robert Pattinson, Sienna Mille... 2016
141
9 Jennifer Lawrence, Chris Pratt, Michael Sheen,... 2016
116

```

	Rating	Votes	Revenue (Millions)	Metascore
0	8.1	757074	333.13	76.0
1	7.0	485820	126.46	65.0
2	7.3	157606	138.12	62.0
3	7.2	60545	270.32	59.0
4	6.2	393727	325.02	40.0
5	6.1	56036	45.13	42.0
6	8.3	258682	151.06	93.0
7	6.4	2490	NaN	71.0
8	7.1	7188	8.01	78.0
9	7.0	192177	100.01	41.0

DISPLAY last 10 Rows :

```
data.tail(10)
```

	Rank	Title	Genre \
990	991	Underworld: Rise of the Lycans	Action,Adventure,Fantasy
991	992	Taare Zameen Par	Drama,Family,Music
992	993	Take Me Home Tonight	Comedy,Drama,Romance
993	994	Resident Evil: Afterlife	Action,Adventure,Horror
994	995	Project X	Comedy
995	996	Secret in Their Eyes	Crime,Drama,Mystery
996	997	Hostel: Part II	Horror
997	998	Step Up 2: The Streets	Drama,Music,Romance
998	999	Search Party	Adventure,Comedy
999	1000	Nine Lives	Comedy,Family,Fantasy

	Description	Director \
990	An origins story centered on the centuries-old...	Patrick Tatopoulos
991	An eight-year-old boy is thought to be a lazy ...	Aamir Khan
992	Four years after graduation, an awkward high s...	Michael Dowse
993	While still out to destroy the evil Umbrella C...	Paul W.S. Anderson
994	3 high school seniors throw a birthday party t...	Nima Nourizadeh
995	A tight-knit team of rising investigators, alo...	Billy Ray
996	Three American college students studying abroa...	Eli Roth

```

997 Romantic sparks occur between two dance studen... Jon M. Chu
998 A pair of friends embark on a mission to reuni... Scot Armstrong
999 A stuffy businessman finds himself trapped ins... Barry Sonnenfeld

```

	Actors	Year	\
990	Rhona Mitra, Michael Sheen, Bill Nighy, Steven...	2009	
991	Darsheel Safary, Aamir Khan, Tanay Chheda, Sac...	2007	
992	Topher Grace, Anna Faris, Dan Fogler, Teresa P...	2011	
993	Milla Jovovich, Ali Larter, Wentworth Miller,K...	2010	
994	Thomas Mann, Oliver Cooper, Jonathan Daniel Br...	2012	
995	Chiwetel Ejiofor, Nicole Kidman, Julia Roberts...	2015	
996	Lauren German, Heather Matarazzo, Bijou Philli...	2007	
997	Robert Hoffman, Briana Evigan, Cassie Ventura,...	2008	
998	Adam Pally, T.J. Miller, Thomas Middleditch,Sh...	2014	
999	Kevin Spacey, Jennifer Garner, Robbie Amell,Ch...	2016	

	Runtime (Minutes)	Rating	Votes	Revenue (Millions)	Metascore
990	92	6.6	129708	45.80	44.0
991	165	8.5	102697	1.20	42.0
992	97	6.3	45419	6.92	NaN
993	97	5.9	140900	60.13	37.0
994	88	6.7	164088	54.72	48.0
995	111	6.2	27585	NaN	45.0
996	94	5.5	73152	17.54	46.0
997	98	6.2	70699	58.01	50.0
998	93	5.6	4881	NaN	22.0
999	87	5.3	12435	19.64	11.0

FINDING THE SHAPE OF DATASET

```

np.shape(data)

(1000, 12)

print('number of rows : ', data.shape[0])
print('number of columns : ',data.shape[1])

```

```
number of rows : 1000
number of columns : 12
```

Getting Information About Our Dataset Like Total Number Rows, Total Number of Columns, Datatypes of Each Column And Memory Requirement

```
data.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1000 entries, 0 to 999
Data columns (total 12 columns):
 #   Column                Non-Null Count  Dtype  
---  -
 0   Rank                  1000 non-null   int64   
 1   Title                 1000 non-null   object  
 2   Genre                 1000 non-null   object  
 3   Description            1000 non-null   object  
 4   Director              1000 non-null   object  
 5   Actors                1000 non-null   object  
 6   Year                  1000 non-null   int64   
 7   Runtime (Minutes)     1000 non-null   int64   
 8   Rating                1000 non-null   float64  
 9   Votes                 1000 non-null   int64   
10   Revenue (Millions)    872 non-null    float64  
11   Metascore             936 non-null    float64  
dtypes: float64(3), int64(4), object(5)
memory usage: 93.9+ KB
```

Check Null Values In The Dataset

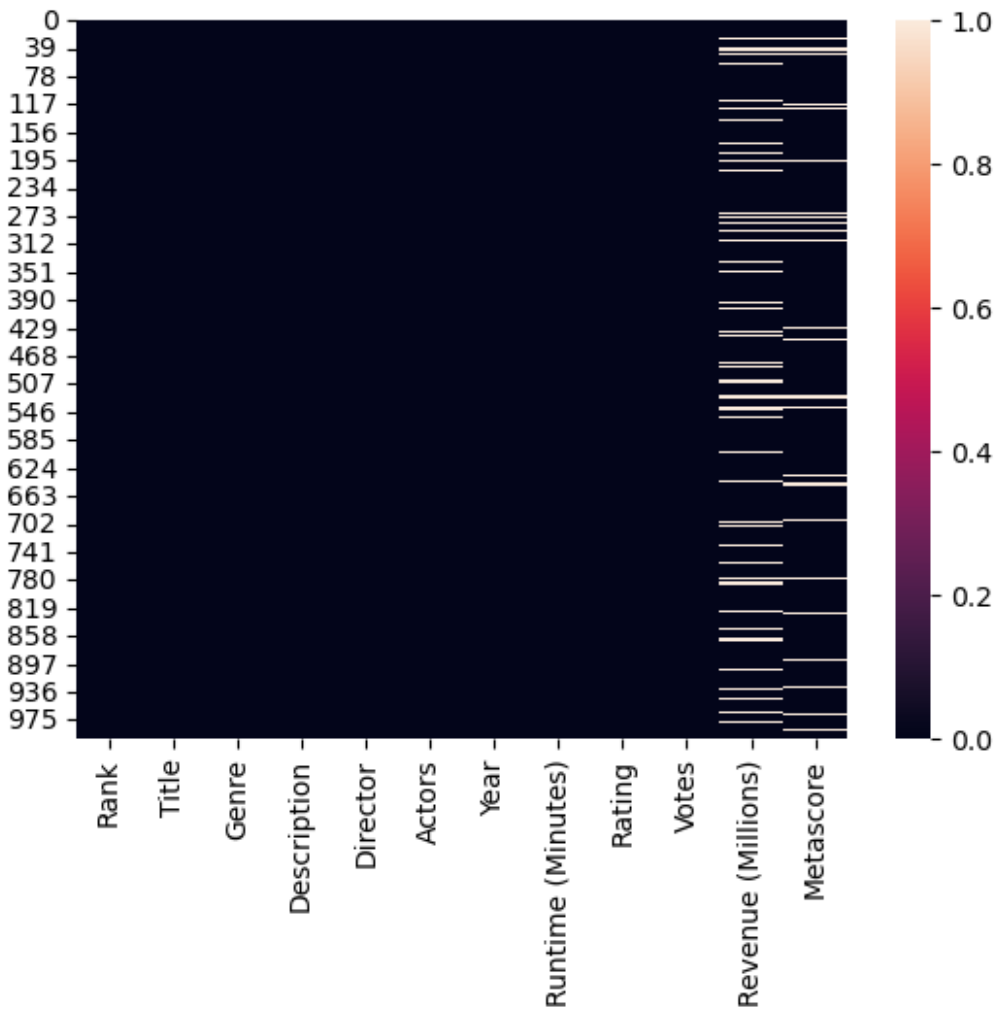
```
data.isnull().sum()

Rank                0
Title               0
Genre               0
Description          0
Director            0
Actors              0
Year                0
Runtime (Minutes)   0
Rating              0
Votes               0
Revenue (Millions) 128
Metascore           64
dtype: int64
```

Drop All The Missing Values

```
sns.heatmap(data.isnull())  
plt.show
```

```
<function matplotlib.pyplot.show(close=None, block=None)>
```

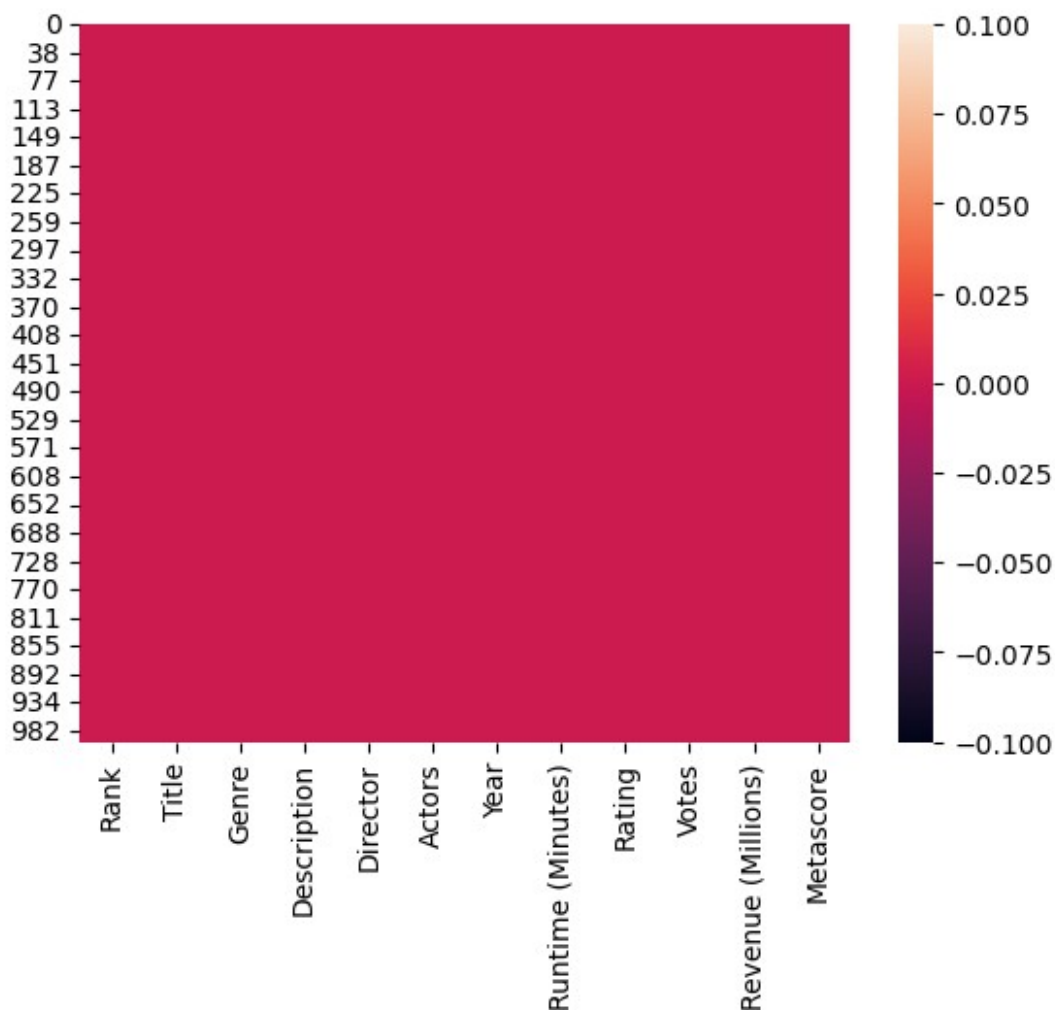


drop all the missing value :

```
data = data.dropna(axis = 0 )
```

```
sns.heatmap(data.isnull())
```

```
<Axes: >
```



Check For Duplicate Data

```
dup_data = data.duplicated().any()
print('DUPLICATED DATA ? ', dup_data)
```

DUPLICATED DATA ? False

Get Overall Statistics About The DataFrame

```
data.describe()
```

	Rank	Year	Runtime (Minutes)	Rating
Votes \				
count	838.000000	838.00000	838.000000	838.000000
mean	485.247017	2012.50716	114.638425	6.814320
std	286.572065	3.17236	18.470922	0.877754

min	1.000000	2006.00000	66.000000	1.900000
1.780000e+02				
25%	238.250000	2010.00000	101.000000	6.300000
6.127650e+04				
50%	475.500000	2013.00000	112.000000	6.900000
1.368795e+05				
75%	729.750000	2015.00000	124.000000	7.500000
2.710830e+05				
max	1000.000000	2016.00000	187.000000	9.000000
1.791916e+06				

	Revenue (Millions)	Metascore
count	838.000000	838.000000
mean	84.564558	59.575179
std	104.520227	16.952416
min	0.000000	11.000000
25%	13.967500	47.000000
50%	48.150000	60.000000
75%	116.800000	72.000000
max	936.630000	100.000000

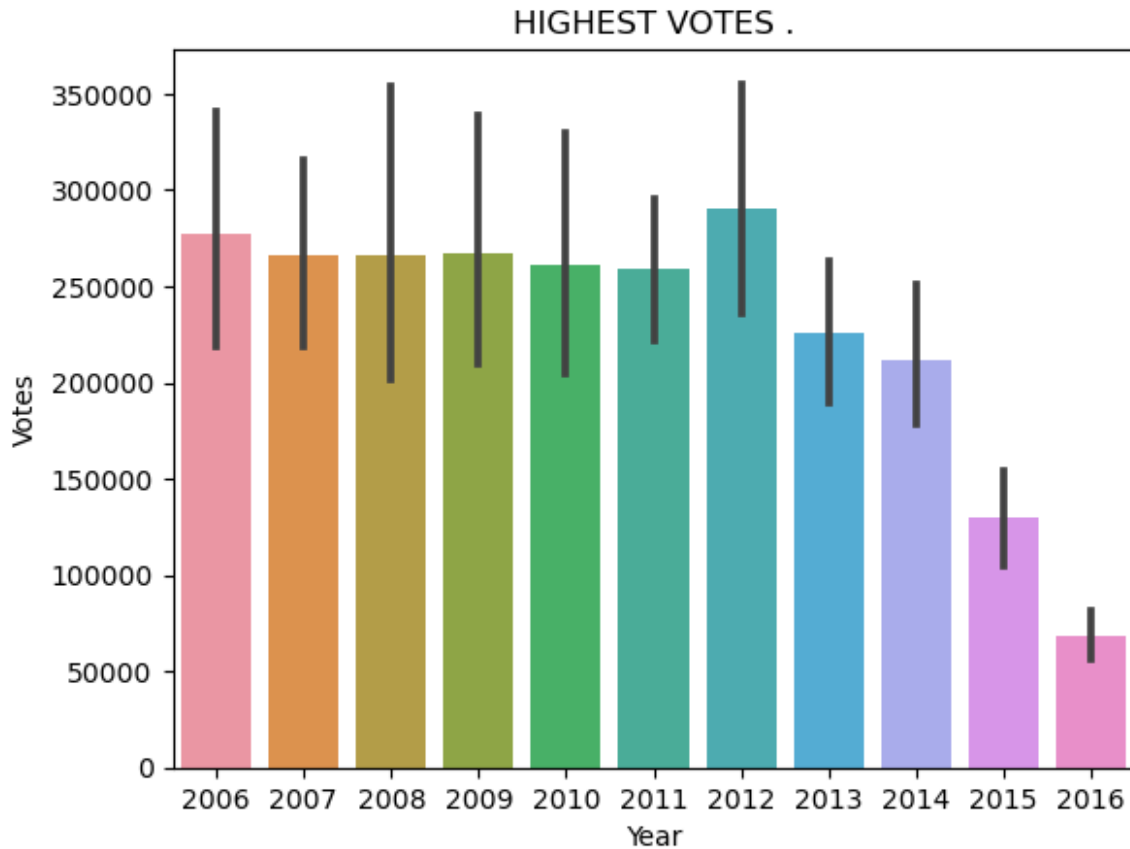
Display Title of The Movie Having Runtime >= 180 Minutes

```
data.columns
data[data['Runtime (Minutes)']>=180]['Title']

82    The Wolf of Wall Street
88    The Hateful Eight
311    La vie d'Adèle
Name: Title, dtype: object
```

In Which Year There Was The Highest Voting?

```
sns.barplot(x = 'Year' , y = 'Votes' , data = data )
plt.title('HIGHEST VOTES .')
plt.show()
```

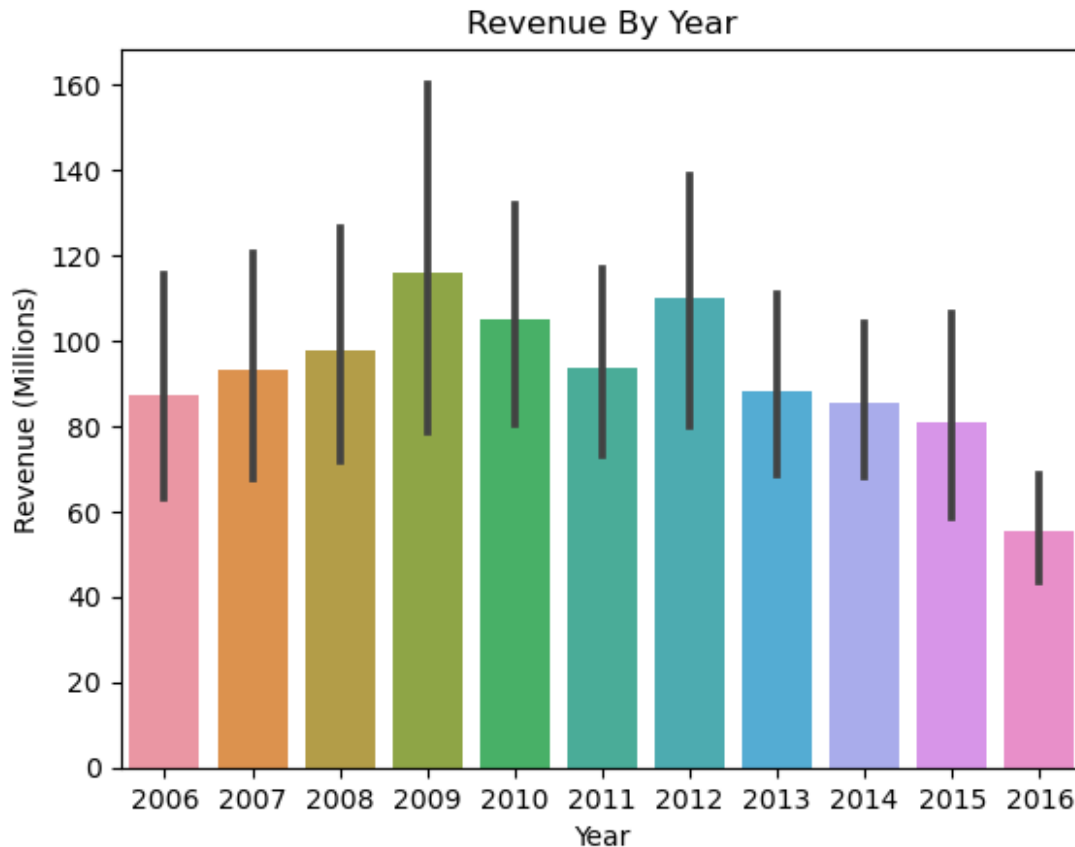


In Which Year There Was The Highest Revenue ?

```
data.columns
```

```
Index(['Rank', 'Title', 'Genre', 'Description', 'Director', 'Actors',  
      'Year',  
      'Runtime (Minutes)', 'Rating', 'Votes', 'Revenue (Millions)',  
      'Metascore'],  
      dtype='object')
```

```
sns.barplot(x='Year',y='Revenue (Millions)',data=data)  
plt.title("Revenue By Year")  
plt.show()
```



Find The Average Rating For Each Director

```
data.groupby('Director')['Rating'].mean().sort_values(ascending=False)
```

```
Director
Christopher Nolan      8.68
Olivier Nakache        8.60
Makoto Shinkai         8.60
Florian Henckel von Donnersmarck  8.50
Aamir Khan             8.50
...
Sam Taylor-Johnson     4.10
Joey Curtis            4.00
George Nolfi           3.90
James Wong             2.70
Jason Friedberg        1.90
Name: Rating, Length: 524, dtype: float64
```

Display Top 10 Lengthy Movies Title

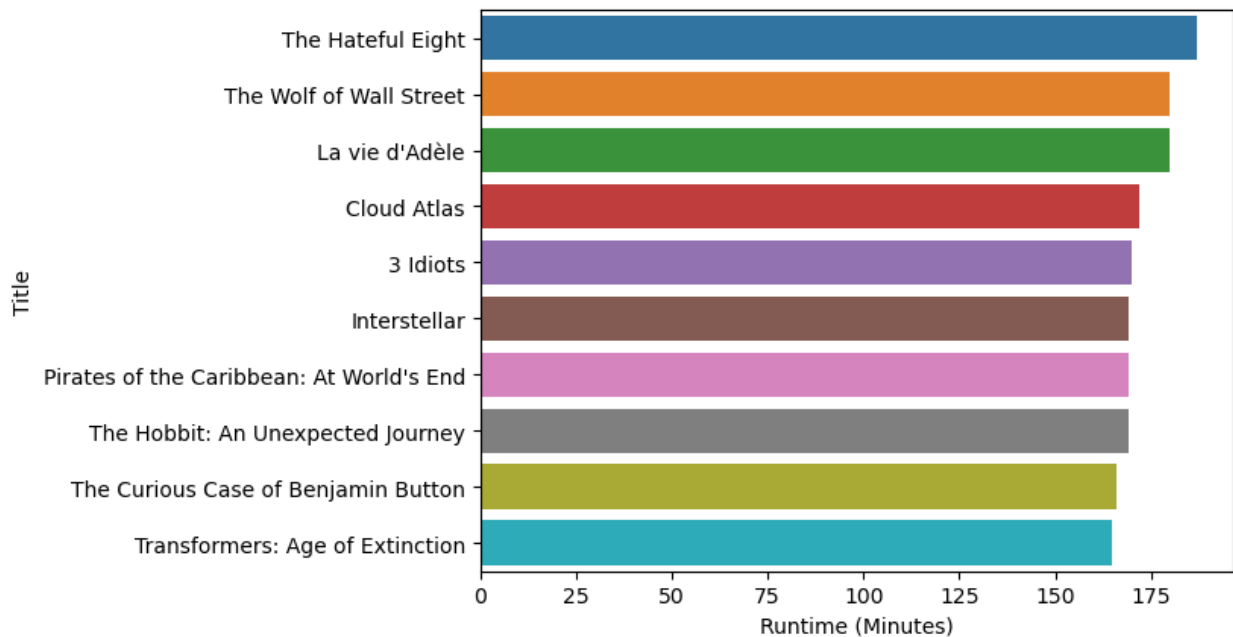
```
data.columns
```

```
Index(['Rank', 'Title', 'Genre', 'Description', 'Director', 'Actors',
      'Year',
      'Runtime (Minutes)', 'Rating', 'Votes', 'Revenue (Millions)',
      'Metascore'],
      dtype='object')
```

```
movie=data.nlargest(10,'Runtime (Minutes)')[['Title','Runtime
(Minutes)']]\
.set_index('Title')
movie
```

	Runtime (Minutes)
Title	
The Hateful Eight	187
The Wolf of Wall Street	180
La vie d'Adèle	180
Cloud Atlas	172
3 Idiots	170
Interstellar	169
Pirates of the Caribbean: At World's End	169
The Hobbit: An Unexpected Journey	169
The Curious Case of Benjamin Button	166
Transformers: Age of Extinction	165

```
sns.barplot(x = 'Runtime (Minutes)' , y = movie.index , data= movie )
<Axes: xlabel='Runtime (Minutes)', ylabel='Title'>
```



Display Number of Movies Per Year

```
data.columns
```

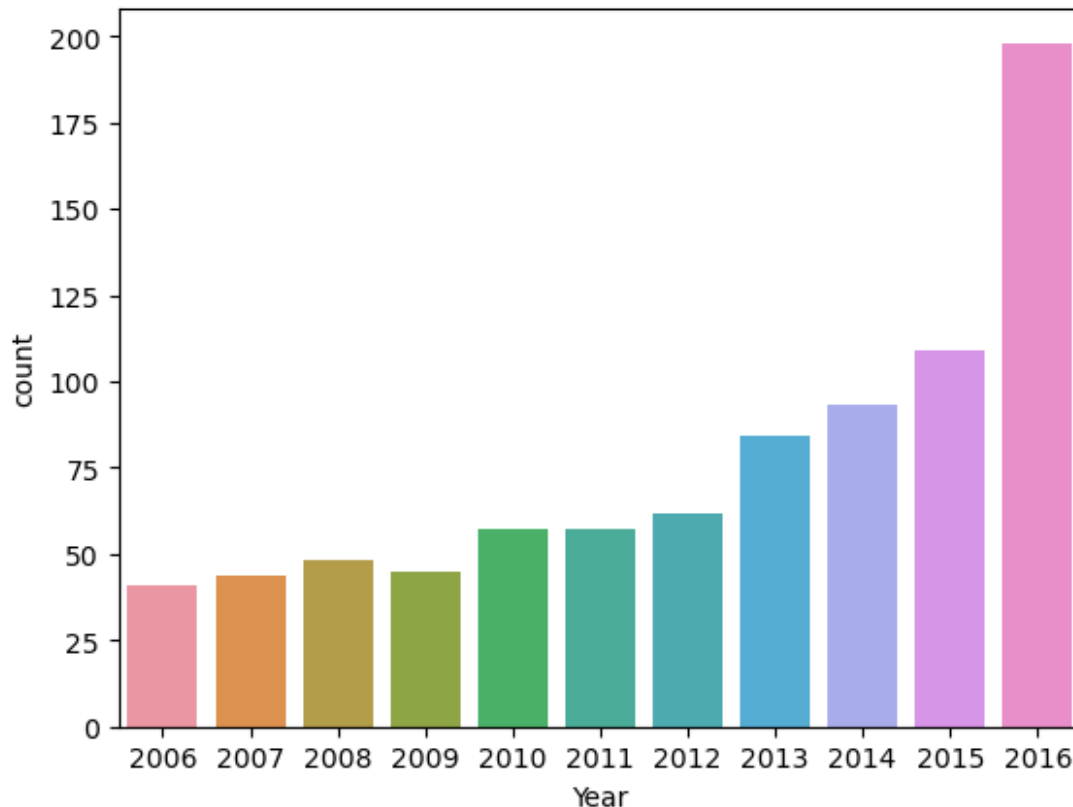
```
Index(['Rank', 'Title', 'Genre', 'Description', 'Director', 'Actors',  
      'Year',  
      'Runtime (Minutes)', 'Rating', 'Votes', 'Revenue (Millions)',  
      'Metascore'],  
      dtype='object')
```

```
data['Year'].value_counts()
```

```
Year  
2016    198  
2015    109  
2014     93  
2013     84  
2012     62  
2011     57  
2010     57  
2008     48  
2009     45  
2007     44  
2006     41  
Name: count, dtype: int64
```

```
sns.countplot(x = 'Year' , data =data )
```

```
<Axes: xlabel='Year', ylabel='count'>
```



Find Most Popular Movie Title (Highest Revenue)

```
data.columns
```

```
Index(['Rank', 'Title', 'Genre', 'Description', 'Director', 'Actors',
      'Year',
      'Runtime (Minutes)', 'Rating', 'Votes', 'Revenue (Millions)',
      'Metascore'],
      dtype='object')
```

```
data[data['Revenue (Millions)'].max() == data['Revenue (Millions)']]
['Title']
```

```
50    Star Wars: Episode VII - The Force Awakens
Name: Title, dtype: object
```

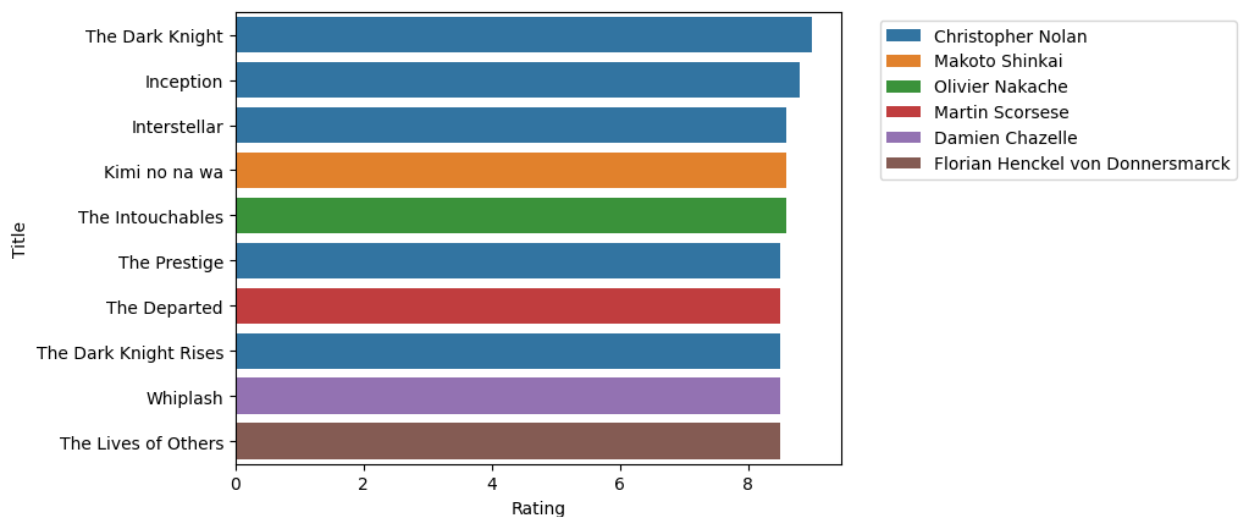
Display Top 10 Highest Rated Movie Titles And its Directors

```
data.columns
movie=data.nlargest(10,'Rating')[['Title','Director','Rating']]\
.set_index('Title')
movie
```

	Director	Rating
Title		

The Dark Knight	Christopher Nolan	9.0
Inception	Christopher Nolan	8.8
Interstellar	Christopher Nolan	8.6
Kimi no na wa	Makoto Shinkai	8.6
The Intouchables	Olivier Nakache	8.6
The Prestige	Christopher Nolan	8.5
The Departed	Martin Scorsese	8.5
The Dark Knight Rises	Christopher Nolan	8.5
Whiplash	Damien Chazelle	8.5
The Lives of Others	Florian Henckel von Donnersmarck	8.5

```
sns.barplot(x = 'Rating' , y = movie.index , data = movie ,
hue='Director' , dodge =False)
plt.legend(bbox_to_anchor = (1.05 , 1 ) , loc=2)
<matplotlib.legend.Legend at 0x200cd8fb2d0>
```



Display Top 10 Highest Revenue Movie Titles

```
data.columns
```

```
Index(['Rank', 'Title', 'Genre', 'Description', 'Director', 'Actors',
'Year',
'Runtime (Minutes)', 'Rating', 'Votes', 'Revenue (Millions)',
'Metascore'],
dtype='object')
```

```
data.nlargest(10, 'Revenue (Millions)')['Title']
```

50	Star Wars: Episode VII - The Force Awakens
87	Avatar
85	Jurassic World
76	The Avengers
54	The Dark Knight

```

12                                Rogue One
119                               Finding Dory
94                                Avengers: Age of Ultron
124                               The Dark Knight Rises
578                               The Hunger Games: Catching Fire
Name: Title, dtype: object

top_10 =data.nlargest(10,'Revenue (Millions)' )[['Title' , 'Revenue
(Millions)']]
top_10.set_index('Title')

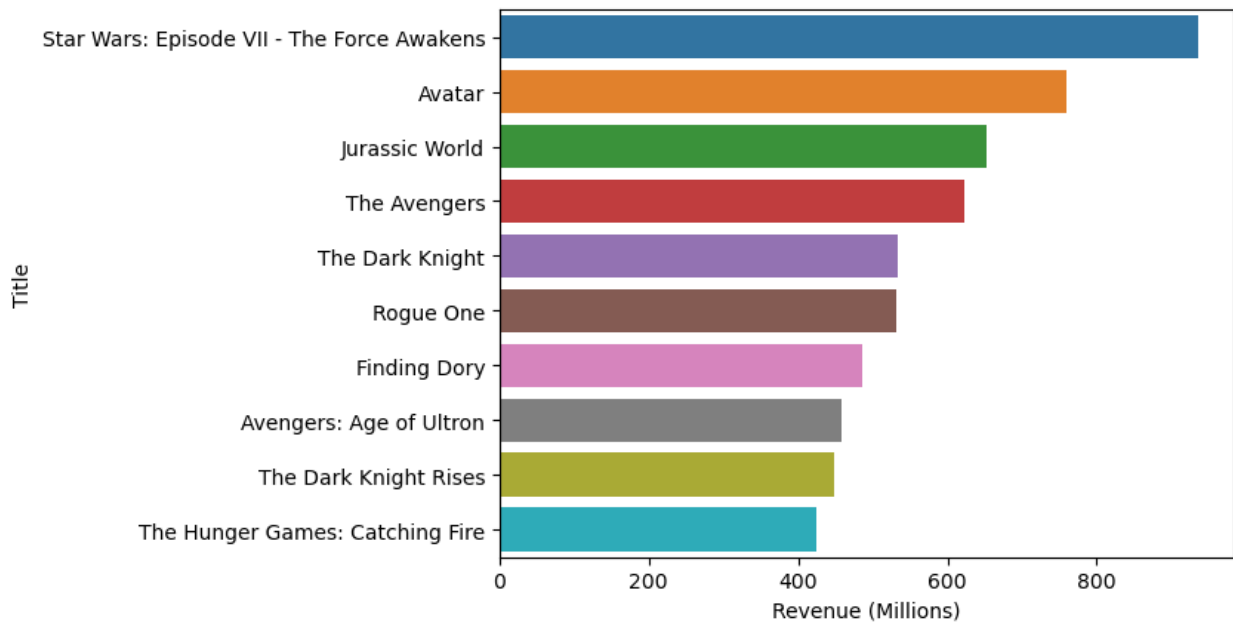
```

	Revenue (Millions)
Title	
Star Wars: Episode VII - The Force Awakens	936.63
Avatar	760.51
Jurassic World	652.18
The Avengers	623.28
The Dark Knight	533.32
Rogue One	532.17
Finding Dory	486.29
Avengers: Age of Ultron	458.99
The Dark Knight Rises	448.13
The Hunger Games: Catching Fire	424.65

```

sns.barplot( x = 'Revenue (Millions)' ,y = 'Title', data = top_10)
<Axes: xlabel='Revenue (Millions)', ylabel='Title'>

```



Find Average Rating of Movies Year-wise

```
data.columns
f1 = data.groupby('Year')['Rating'].mean().sort_values(ascending =
False)
f1
```

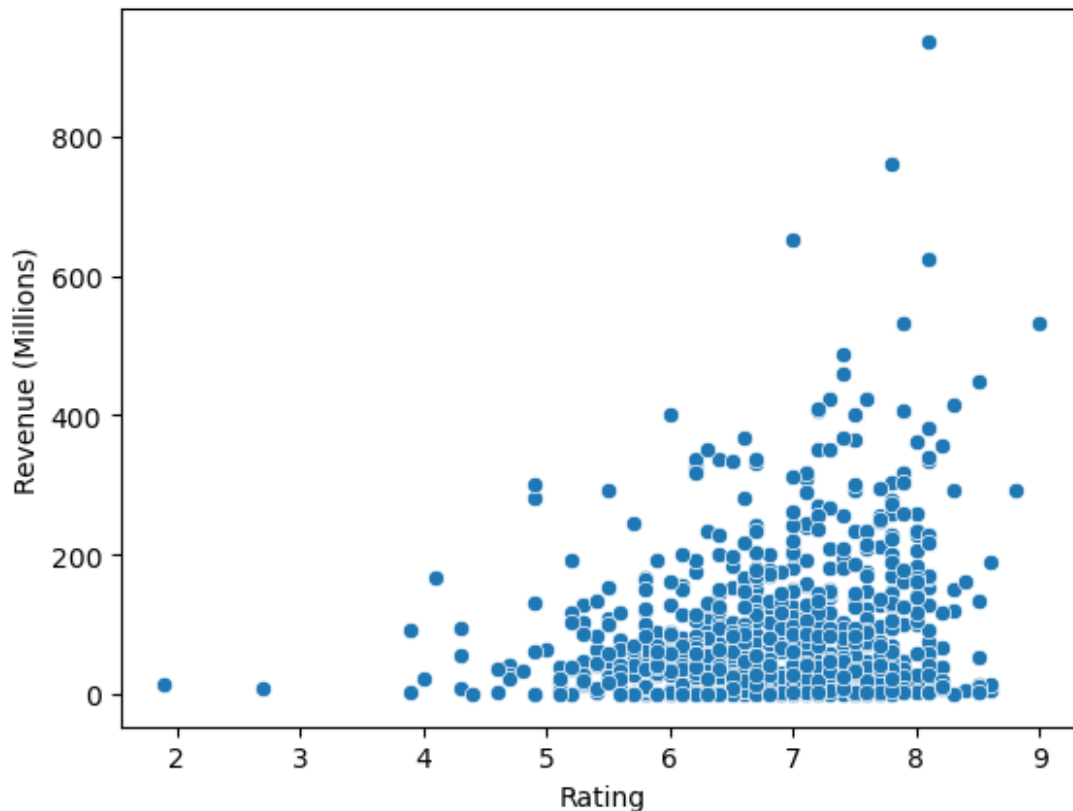
Year	
2006	7.143902
2007	7.140909
2011	6.945614
2012	6.933871
2009	6.911111
2010	6.894737
2013	6.832143
2014	6.822581
2008	6.708333
2015	6.674312
2016	6.644444

```
Name: Rating, dtype: float64
```

Does Rating Affect The Revenue?

```
data.columns
Index(['Rank', 'Title', 'Genre', 'Description', 'Director', 'Actors',
'Year',
      'Runtime (Minutes)', 'Rating', 'Votes', 'Revenue (Millions)',
      'Metascore'],
      dtype='object')

sns.scatterplot(x = 'Rating' , y = 'Revenue (Millions)' , data = data)
plt.show()
```



Classify Movies Based on Ratings [Good,Better and Best]

```
data.columns
```

```
Index(['Rank', 'Title', 'Genre', 'Description', 'Director', 'Actors',
      'Year',
      'Runtime (Minutes)', 'Rating', 'Votes', 'Revenue (Millions)',
      'Metascore'],
      dtype='object')
```

```
def rating(rating):
    if rating >= 7.0:
        return('BEST')
    elif rating <= 5 :
        return('GOOD')
    elif rating >= 5.8:
        return('BETTER')
```

```
data['SUGGESTION']=data['Rating'].apply(rating)
```

C:\Users\omkar\AppData\Local\Temp\ipykernel_25580\299414010.py:1:
SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation:

```
https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#
returning-a-view-versus-a-copy
data['SUGGESTION']=data['Rating'].apply(rating)
```

```
data.head(10)
```

	Rank	Title
Genre \		
0	1	Guardians of the Galaxy
Action,Adventure,Sci-Fi		
1	2	Prometheus
Adventure,Mystery,Sci-Fi		
2	3	Split
Horror,Thriller		
3	4	Sing
Animation,Comedy,Family		
4	5	Suicide Squad
Action,Adventure,Fantasy		
5	6	The Great Wall
Action,Adventure,Fantasy		
6	7	La La Land
Comedy,Drama,Music		
8	9	The Lost City of Z
Action,Adventure,Biography		
9	10	Passengers
Adventure,Drama,Romance		
10	11	Fantastic Beasts and Where to Find Them
Adventure,Family,Fantasy		

	Description	
Director \		
0	A group of intergalactic criminals are forced ...	James Gunn
1	Following clues to the origin of mankind, a te...	Ridley Scott
2	Three girls are kidnapped by a man with a diag...	M. Night Shyamalan
3	In a city of humanoid animals, a hustling thea...	Christophe Lourdelet
4	A secret government agency recruits some of th...	David Ayer
5	European mercenaries searching for black powde...	Yimou Zhang
6	A jazz pianist falls for an aspiring actress i...	Damien Chazelle
8	A true-life drama, centering on British explor...	James Gray
9	A spacecraft traveling to a distant colony pla...	Morten Tyldum
10	The adventures of writer Newt Scamander in New...	David

Yates

	Actors	Year	\
0	Chris Pratt, Vin Diesel, Bradley Cooper, Zoe S...	2014	
1	Noomi Rapace, Logan Marshall-Green, Michael Fa...	2012	
2	James McAvoy, Anya Taylor-Joy, Haley Lu Richar...	2016	
3	Matthew McConaughey, Reese Witherspoon, Seth Ma...	2016	
4	Will Smith, Jared Leto, Margot Robbie, Viola D...	2016	
5	Matt Damon, Tian Jing, Willem Dafoe, Andy Lau	2016	
6	Ryan Gosling, Emma Stone, Rosemarie DeWitt, J....	2016	
8	Charlie Hunnam, Robert Pattinson, Sienna Mille...	2016	
9	Jennifer Lawrence, Chris Pratt, Michael Sheen,...	2016	
10	Eddie Redmayne, Katherine Waterston, Alison Su...	2016	

	Runtime (Minutes)	Rating	Votes	Revenue (Millions)	
Metascore \					
0	121	8.1	757074	333.13	76.0
1	124	7.0	485820	126.46	65.0
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6	128	8.3	258682	151.06	93.0
8	141	7.1	7188	8.01	78.0
9	116	7.0	192177	100.01	41.0
10	133	7.5	232072	234.02	66.0

	SUGGESTION
0	BEST
1	BEST
2	BEST
3	BEST
4	BETTER
5	BETTER
6	BEST
8	BEST
9	BEST
10	BEST

data.tail(10)

	Rank	Title	Genre \
985	986	Your Highness	Adventure,Comedy,Fantasy
986	987	Final Destination 5	Horror,Thriller
987	988	Endless Love	Drama,Romance
990	991	Underworld: Rise of the Lycans	Action,Adventure,Fantasy
991	992	Taare Zameen Par	Drama,Family,Music
993	994	Resident Evil: Afterlife	Action,Adventure,Horror
994	995	Project X	Comedy
996	997	Hostel: Part II	Horror
997	998	Step Up 2: The Streets	Drama,Music,Romance
999	1000	Nine Lives	Comedy,Family,Fantasy

	Description
Director \	
985	When Prince Fabious's bride is kidnapped, he g... David Gordon Green
986	Survivors of a suspension-bridge collapse lear... Steven Quale
987	The story of a privileged girl and a charismat... Shana Feste
990	An origins story centered on the centuries-old... Patrick Tatopoulos
991	An eight-year-old boy is thought to be a lazy ... Aamir Khan
993	While still out to destroy the evil Umbrella C... Paul W.S. Anderson
994	3 high school seniors throw a birthday party t... Nima Nourizadeh
996	Three American college students studying abroa... Eli Roth
997	Romantic sparks occur between two dance studen... Jon M. Chu
999	A stuffy businessman finds himself trapped ins... Barry Sonnenfeld

	Actors	Year \
985	Danny McBride, Natalie Portman, James Franco, ...	2011
986	Nicholas D'Agosto, Emma Bell, Arlen Escarpeta,...	2011
987	Gabriella Wilde, Alex Pettyfer, Bruce Greenwoo...	2014
990	Rhona Mitra, Michael Sheen, Bill Nighy, Steven...	2009
991	Darsheel Safary, Aamir Khan, Tanay Chheda, Sac...	2007
993	Milla Jovovich, Ali Larter, Wentworth Miller,K...	2010
994	Thomas Mann, Oliver Cooper, Jonathan Daniel Br...	2012
996	Lauren German, Heather Matarazzo, Bijou Philli...	2007
997	Robert Hoffman, Briana Evigan, Cassie Ventura,...	2008
999	Kevin Spacey, Jennifer Garner, Robbie Amell,Ch...	2016

	Runtime (Minutes)	Rating	Votes	Revenue (Millions)	Metascore \
985	102	5.6	87904	21.56	31.0

986	92	5.9	88000	42.58	50.0
987	104	6.3	33688	23.39	30.0
990	92	6.6	129708	45.80	44.0
991	165	8.5	102697	1.20	42.0
993	97	5.9	140900	60.13	37.0
994	88	6.7	164088	54.72	48.0
996	94	5.5	73152	17.54	46.0
997	98	6.2	70699	58.01	50.0
999	87	5.3	12435	19.64	11.0
SUGGESTION					
985	None				
986	BETTER				
987	BETTER				
990	BETTER				
991	BEST				
993	BETTER				
994	BETTER				
996	None				
997	BETTER				
999	None				