IMBD MOVIE PREDICTION PROJECT

```
In [1]:  import pandas as pd
         import seaborn as sns
         import matplotlib.pyplot as plt
```
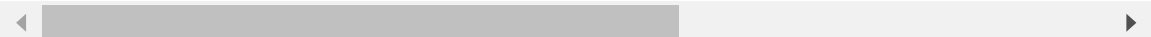
```
In [3]:  data = pd.read_csv('D:\\idm\\MOVIE_PREDICTION PROJECT\\IMDB-Movie-Data.csv')
```

1.Display Top 10 rows of the database

```
In [4]:  data.head()
```

Out[4]:

	Rank	Title	Genre	Description	Director	Acto
0	1	Guardians of the Galaxy	Action,Adventure,Sci-Fi	A group of intergalactic criminals are forced ...	James Gunn	Chris Pratt, \ Diesel, Brad Cooper, Zoe
1	2	Prometheus	Adventure,Mystery,Sci-Fi	Following clues to the origin of mankind, a te...	Ridley Scott	Noomi Rapa Logan Marsha Green, Michael F
2	3	Split	Horror,Thriller	Three girls are kidnapped by a man with a diag...	M. Night Shyamalan	James McAv Anya Taylor-Je Haley Lu Richa
3	4	Sing	Animation,Comedy,Family	In a city of humanoid animals, a hustling thea...	Christophe Lourdelet	Matth McConaughey,Ree Witherspoon, Se M
4	5	Suicide Squad	Action,Adventure,Fantasy	A secret government agency recruits some of th...	David Ayer	Will Smith, Jar Leto, Marg Robbie, Viola I

```
In [5]:  data.head(10)
```

Out[5]:

	Rank	Title	Genre	Description	Director	Ac
0	1	Guardians of the Galaxy	Action,Adventure,Sci-Fi	A group of intergalactic criminals are forced ...	James Gunn	Chris Pratt Diesel, Bra Cooper, Zo
1	2	Prometheus	Adventure,Mystery,Sci-Fi	Following clues to the origin of mankind, a te...	Ridley Scott	Noomi Rap Logan Mars Green, Michae
2	3	Split	Horror,Thriller	Three girls are kidnapped by a man with a diag...	M. Night Shyamalan	James McA Anya Taylor Haley Lu Ric
3	4	Sing	Animation,Comedy,Family	In a city of humanoid animals, a hustling thea...	Christophe Lourdelet	Mat McConaughey,R Witherspoon,
4	5	Suicide Squad	Action,Adventure,Fantasy	A secret government agency recruits some of th...	David Ayer	Will Smith, J Leto, Ma Robbie, Viol
5	6	The Great Wall	Action,Adventure,Fantasy	European mercenaries searching for black powde...	Yimou Zhang	Matt Damon, Jing, Willem Da Andy
6	7	La La Land	Comedy,Drama,Music	A jazz pianist falls for an aspiring actress i...	Damien Chazelle	Ryan Gosling, E Stone, Rosen DeWit
7	8	Mindhorn	Comedy	A has-been actor best known for playing the ti...	Sean Foley	Essie Davis, An Riseborough, J Bar
8	9	The Lost City of Z	Action,Adventure,Biography	A true-life drama, centering on British explor...	James Gray	Charlie Hun Robert Pattin Sienna M

	Rank	Title	Genre	Description	Director	Ac
9	10	Passengers	Adventure,Drama,Romance	A spacecraft traveling to a distant colony pla...	Morten Tyldum	Jennifer Lawre Chris Pratt, Mic She

2.Last 10 rows of database

In [6]: `data.tail()`

Out[6]:

	Rank	Title	Genre	Description	Director	Actors	Yea
995	996	Secret in Their Eyes	Crime,Drama,Mystery	A tight-knit team of rising investigators, alo...	Billy Ray	Chiwetel Ejiofor, Nicole Kidman, Julia Roberts...	201
996	997	Hostel: Part II	Horror	Three American college students studying abroa...	Eli Roth	Lauren German, Heather Matarazzo, Bijou Philli...	200
997	998	Step Up 2: The Streets	Drama,Music,Romance	Romantic sparks occur between two dance studen...	Jon M. Chu	Robert Hoffman, Briana Evigan, Cassie Ventura,...	200
998	999	Search Party	Adventure,Comedy	A pair of friends embark on a mission to reuni...	Scot Armstrong	Adam Pally, T.J. Miller, Thomas Middleditch,Sh...	201
999	1000	Nine Lives	Comedy,Family,Fantasy	A stuffy businessman finds himself trapped ins...	Barry Sonnenfeld	Kevin Spacey, Jennifer Garner, Robbie Amell,Ch...	201

In [7]: `data.tail(10)`

Out[7]:

	Rank	Title	Genre	Description	Director	Acto
990	991	Underworld: Rise of the Lycans	Action,Adventure,Fantasy	An origins story centered on the centuries-old...	Patrick Tatopoulos	Rhona Mit Michael Shee Bill Nigh Steve
991	992	Taare Zameen Par	Drama,Family,Music	An eight-year-old boy is thought to be a lazy ...	Aamir Khan	Darsheel Safa Aamir Kha Tanay Chhec Sa
992	993	Take Me Home Tonight	Comedy,Drama,Romance	Four years after graduation, an awkward high s...	Michael Dowse	Topher Grac Anna Faris, D Fogler, Tere
993	994	Resident Evil: Afterlife	Action,Adventure,Horror	While still out to destroy the evil Umbrella C...	Paul W.S. Anderson	Milla Jovovic Ali Lart Wentwor Miller,
994	995	Project X	Comedy	3 high school seniors throw a birthday party t...	Nima Nourizadeh	Thomas Mar Oliver Coop Jonathan Dan B
995	996	Secret in Their Eyes	Crime,Drama,Mystery	A tight-knit team of rising investigators, alo...	Billy Ray	Chiwetel Ejiof Nicole Kidma Julia Robert
996	997	Hostel: Part II	Horror	Three American college students studying abroa...	Eli Roth	Lauren Germa Heath Matarazz Bijou Phill
997	998	Step Up 2: The Streets	Drama,Music,Romance	Romantic sparks occur between two dance studen...	Jon M. Chu	Robe Hoffman, Bria Evigan, Cass Ventura
998	999	Search Party	Adventure,Comedy	A pair of friends embark on a mission to reuni...	Scot Armstrong	Adam Pally, T Miller, Thom Middleditch,Sl
999	1000	Nine Lives	Comedy,Family,Fantasy	A stuffy businessman	Barry Sonnenfeld	Kevin Space Jennifer Garn

Rank	Title	Genre	Description	Director	Acto
			finds himself trapped ins...		Robb Amell,Ch

3. Find Shape of Our Dataset (Number of Rows And Number of Columns)

```
In [10]:  data.shape
```

```
Out[10]:  (1000, 12)
```

```
In [14]:  print("Number of Rows:",data.shape[0])
          print("Number of Columns:",data.shape[1])
```

```
Number of Rows: 1000
Number of Columns: 12
```

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

```
In [16]:  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
```

5. Check Missing Values In The Datase

```
In [18]:  print("Any missing value?", data.isnull().values.any())
```
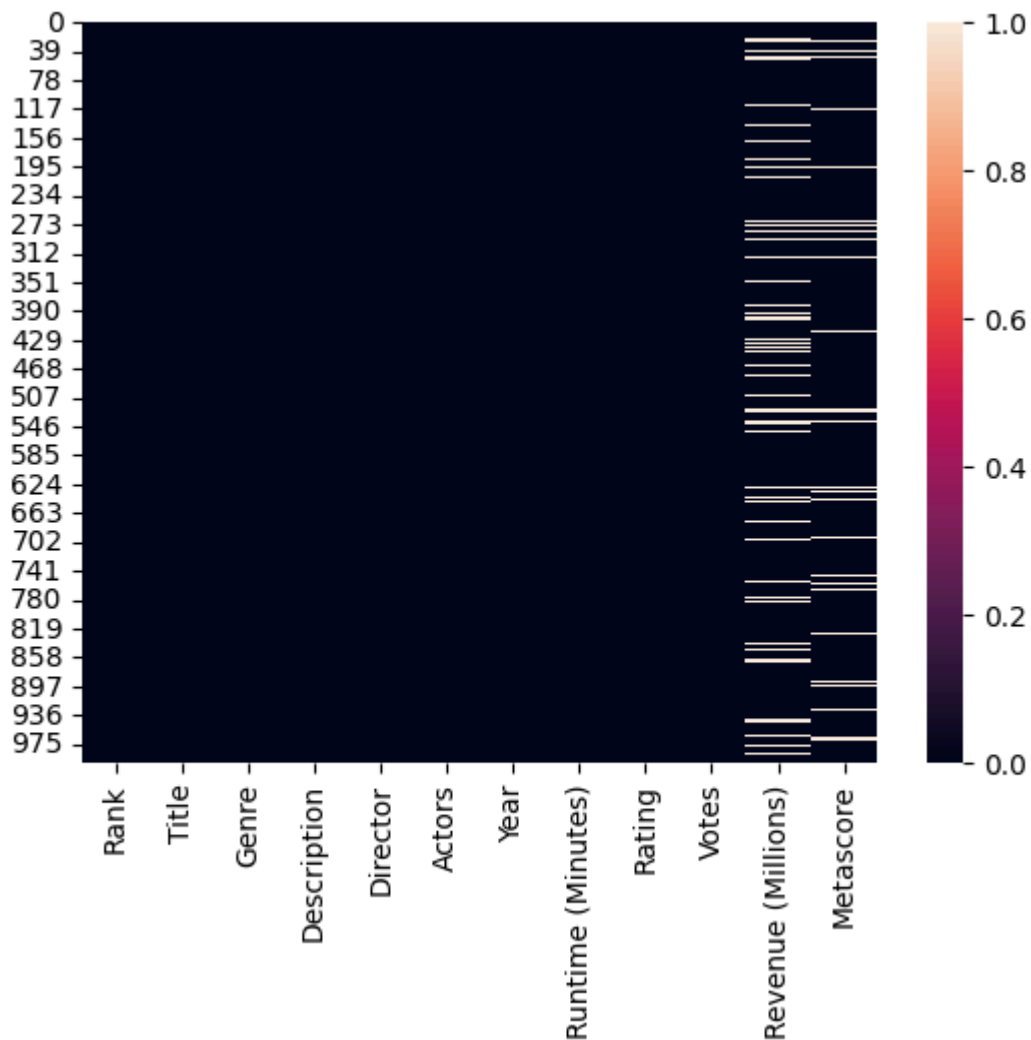
Any missing value? True

In [20]: ```python
data.isnull().sum()
```

Out[20]:
```
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
```

In [21]: ```python
sns.heatmap(data.isnull())
```

Out[21]: <Axes: >

In [22]: ```python
per_missing = data.isnull().sum()*100/len(data)
per_missing
```

Out[22]:  Rank                    0.0
          Title                   0.0
          Genre                   0.0
          Description             0.0
          Director                0.0
          Actors                  0.0
          Year                    0.0
          Runtime (Minutes)       0.0
          Rating                  0.0
          Votes                   0.0
          Revenue (Millions)     12.8
          Metascore               6.4
          dtype: float64

# 6. Drop All The Missing Values

In [23]:
```python
data.dropna(axis=0)
```

Out[23]:

	Rank	Title	Genre	Description	Director	
0	1	Guardians of the Galaxy	Action,Adventure,Sci-Fi	A group of intergalactic criminals are forced ...	James Gunn	Chris Pra... Diesel, B... Cooper, 2...
1	2	Prometheus	Adventure,Mystery,Sci-Fi	Following clues to the origin of mankind, a te...	Ridley Scott	Noomi R... Logan Ma... Green, Micha...
2	3	Split	Horror,Thriller	Three girls are kidnapped by a man with a diag...	M. Night Shyamalan	James M... Anya Tayl... Haley Lu R...
3	4	Sing	Animation,Comedy,Family	In a city of humanoid animals, a hustling thea...	Christophe Lourdelet	M... McConaughey... Witherspoo...
4	5	Suicide Squad	Action,Adventure,Fantasy	A secret government agency recruits some of th...	David Ayer	Will Smith... Leto, N... Robbie, Vi...
...	...	...	...	...	...	...
993	994	Resident Evil: Afterlife	Action,Adventure,Horror	While still out to destroy the evil Umbrella C...	Paul W.S. Anderson	Milla Jovov... Larter, Wen... M...
994	995	Project X	Comedy	3 high school seniors throw a birthday party t...	Nima Nourizadeh	Thomas... Oliver C... Jonathan Dan...
996	997	Hostel: Part II	Horror	Three American college students studying abroa...	Eli Roth	Lauren G... Heather Mat... Bijou...
997	998	Step Up 2: The Streets	Drama,Music,Romance	Romantic sparks occur between two dance studen...	Jon M. Chu	Robert Ho... Briana Evigan,... Ver...
999	1000	Nine Lives	Comedy,Family,Fantasy	A stuffy businessman	Barry Sonnenfeld	Kevin S... Jennifer C...

Rank	Title	Genre	Description	Director	
			finds himself trapped ins...	Robbie Am	

838 rows × 12 columns

7. Check For Duplicate Data

```
In [24]:  dup_data=data.duplicated().any()
          print("Are there any duplicated values?",dup_data)
```

Are there any duplicated values? False

```
In [26]:  data= data.drop_duplicates()
          data
```

Out[26]:

	Rank	Title	Genre	Description	Director	A
0	1	Guardians of the Galaxy	Action,Adventure,Sci-Fi	A group of intergalactic criminals are forced ...	James Gunn	Chris Pr... Diesel, E... Cooper, 2...
1	2	Prometheus	Adventure,Mystery,Sci-Fi	Following clues to the origin of mankind, a te...	Ridley Scott	Noomi R... Logan Ma... Green, Micha...
2	3	Split	Horror,Thriller	Three girls are kidnapped by a man with a diag...	M. Night Shyamalan	James M... Anya Tayl... Haley Lu R...
3	4	Sing	Animation,Comedy,Family	In a city of humanoid animals, a hustling thea...	Christophe Lourdelet	M... McConaughey... Witherspoo...
4	5	Suicide Squad	Action,Adventure,Fantasy	A secret government agency recruits some of th...	David Ayer	Will Smith... Leto, N... Robbie, Vi...
...	...	...	...	...	...	
995	996	Secret in Their Eyes	Crime,Drama,Mystery	A tight-knit team of rising investigators, alo...	Billy Ray	Chiwetel... Nicole Kidma... Ro...
996	997	Hostel: Part II	Horror	Three American college students studying abroa...	Eli Roth	Lauren G... Heather Mata... Bijou...
997	998	Step Up 2: The Streets	Drama,Music,Romance	Romantic sparks occur between two dance studen...	Jon M. Chu	Robert Ho... Briana Evigan,... Ver...
998	999	Search Party	Adventure,Comedy	A pair of friends embark on a mission to reuni...	Scot Armstrong	Adam Pa... Miller, T... Middledit...
999	1000	Nine Lives	Comedy,Family,Fantasy	A stuffy businessman	Barry Sonnenfeld	Kevin S... Jennifer G... Robbie Am...

Rank	Title	Genre	Description	Director	
			finds himself trapped ins...		

1000 rows × 12 columns

8. Get Overall Statistics About The DataFrame

In [28]:
```python
data.describe(include='all')
```

Out[28]:

	Rank	Title	Genre	Description	Director	Actors	
count	1000.000000	1000	1000	1000	1000	1000	100(
unique	NaN	999	207	1000	644	996	
top	NaN	The Host	Action,Adventure,Sci-Fi	A group of intergalactic criminals are forced ...	Ridley Scott	Jennifer Lawrence, Josh Hutcherson, Liam Hemsw...	
freq	NaN	2	50	1	8	2	
mean	500.500000	NaN	NaN	NaN	NaN	NaN	2012
std	288.819436	NaN	NaN	NaN	NaN	NaN	(
min	1.000000	NaN	NaN	NaN	NaN	NaN	2006
25%	250.750000	NaN	NaN	NaN	NaN	NaN	2010
50%	500.500000	NaN	NaN	NaN	NaN	NaN	2014
75%	750.250000	NaN	NaN	NaN	NaN	NaN	2016
max	1000.000000	NaN	NaN	NaN	NaN	NaN	2016

9. Display Title of The Movie Having Runtime Greater Than or equal to 180 Minutes

In [29]:
```python
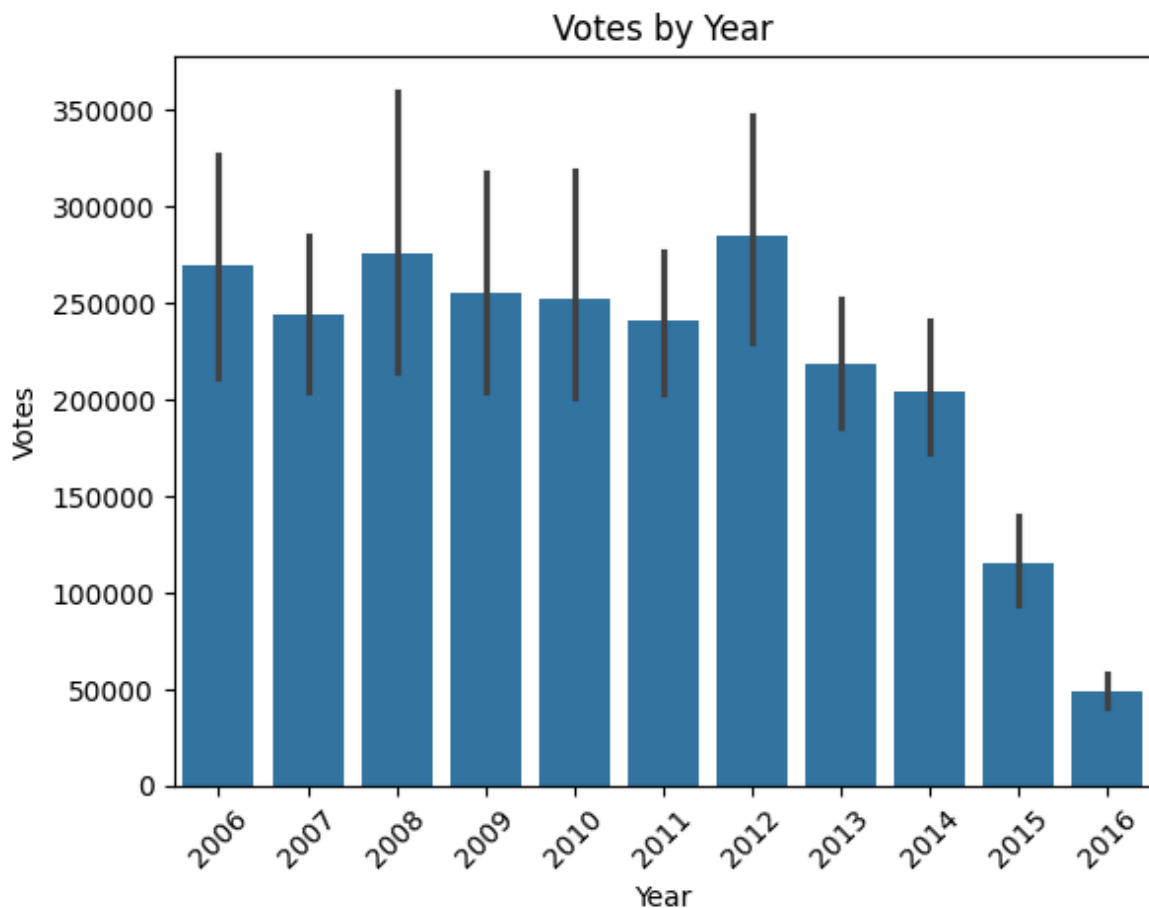data.columns
```

```
Out[29]: Index(['Rank', 'Title', 'Genre', 'Description', 'Director', 'Actors', 'Year',
                'Runtime (Minutes)', 'Rating', 'Votes', 'Revenue (Millions)',
                'Metascore'],
               dtype='object')
```

```
In [33]: data [data['Runtime (Minutes)']>= 180 ]['Title']
```

```
Out[33]: 82       The Wolf of Wall Street
         88            The Hateful Eight
         311            La vie d'Adèle
         828                  Grindhouse
         965               Inland Empire
         Name: Title, dtype: object
```

10. In Which Year There Was The Highest Average Voting?

```
In [34]: data.columns
```

```
Out[34]: Index(['Rank', 'Title', 'Genre', 'Description', 'Director', 'Actors', 'Year',
                'Runtime (Minutes)', 'Rating', 'Votes', 'Revenue (Millions)',
                'Metascore'],
               dtype='object')
```

```
In [39]: data.groupby('Year')['Votes']. mean().sort_values(ascending=False)
```

```
Out[39]: Year
         2012     285226.093750
         2008     275505.384615
         2006     269289.954545
         2009     255780.647059
         2010     252782.316667
         2007     244331.037736
         2011     240790.301587
         2013     219049.648352
         2014     203930.224490
         2015     115726.220472
         2016      48591.754209
         Name: Votes, dtype: float64
```

```
In [62]: sns.barplot(x='Year', y='Votes',data=data)
         plt.title("Votes by Year")
         plt.xticks(rotation = 45)
         plt.show
```

```
Out[62]: <function matplotlib.pyplot.show(close=None, block=None)>
```

Votes by Year

11. In Which Year There Was The Highest Average Revenue?

```
In [47]:  data.columns
```

```
Out[47]:  Index(['Rank', 'Title', 'Genre', 'Description', 'Director', 'Actors', 'Year',
                 'Runtime (Minutes)', 'Rating', 'Votes', 'Revenue (Millions)',
                 'Metascore'],
                dtype='object')
```

```
In [48]:  data.groupby('Year')['Revenue (Millions)']. mean().sort_values(ascending=False)
```

```
Out[48]:  Year
          2009    112.601277
          2012    107.973281
          2010    105.081579
          2008     99.082745
          2007     87.882245
          2011     87.612258
          2013     87.121818
          2006     86.296667
          2014     85.078723
          2015     78.355044
          2016     54.690976
          Name: Revenue (Millions), dtype: float64
```

```
In [49]:  sns.barplot(x='Year', y='Revenue (Millions)',data=data)
          plt.title("Revenue by Year")
```

```
plt.xticks(rotation = 45)
plt.show
```

Out[49]:   <function matplotlib.pyplot.show(close=None, block=None)>

Revenue by Year
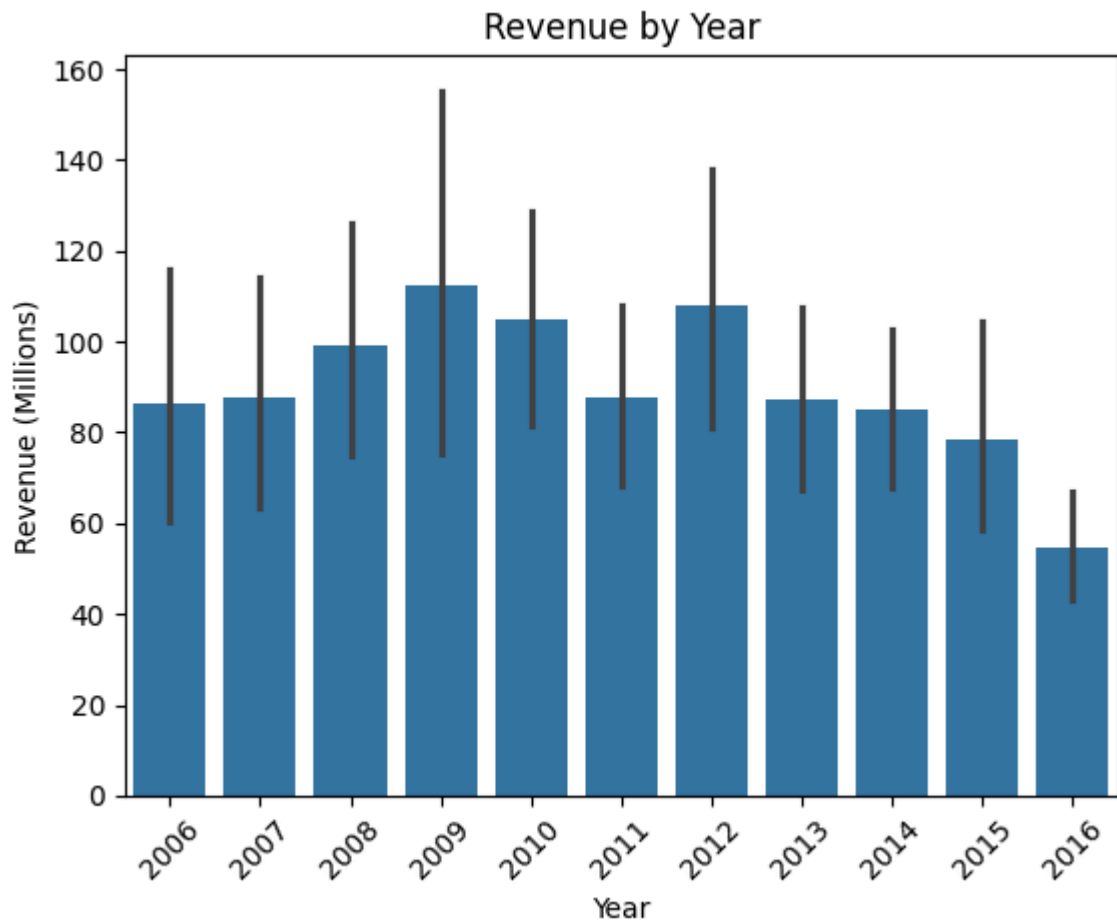
12. Find The Average Rating For Each Director

In [50]:   `data.columns`

Out[50]:   Index(['Rank', 'Title', 'Genre', 'Description', 'Director', 'Actors', 'Year',
                   'Runtime (Minutes)', 'Rating', 'Votes', 'Revenue (Millions)',
                   'Metascore'],
                  dtype='object')

In [51]:   `data.groupby ('Director')['Rating'].mean().sort_values(ascending=False)`

Out[51]: Director
          Nitesh Tiwari   8.80
          Christopher Nolan   8.68
          Olivier Nakache   8.60
          Makoto Shinkai   8.60
          Aamir Khan   8.50
                                ...
          Micheal Bafaro   3.50
          Jonathan Holbrook   3.20
          Shawn Burkett   2.70
          James Wong   2.70
          Jason Friedberg   1.90
          Name: Rating, Length: 644, dtype: float64

13. Display Top 10 Lengthy Movies Title and Runtime

In [53]: `data.columns`

Out[53]: Index(['Rank', 'Title', 'Genre', 'Description', 'Director', 'Actors', 'Year',
                'Runtime (Minutes)', 'Rating', 'Votes', 'Revenue (Millions)',
                'Metascore'],
               dtype='object')

In [55]: ```
top10_len= data.nlargest(10, 'Runtime (Minutes)')[['Title', 'Runtime (Minutes)']
.set_index('Title')
```

In [56]:  `top10_len`

Out[56]:

| Title | Runtime (Minutes) |
|---|---|
| Grindhouse | 191 |
| The Hateful Eight | 187 |
| The Wolf of Wall Street | 180 |
| La vie d'Adèle | 180 |
| Inland Empire | 180 |
| Cloud Atlas | 172 |
| 3 Idiots | 170 |
| Interstellar | 169 |
| Pirates of the Caribbean: At World's End | 169 |
| The Hobbit: An Unexpected Journey | 169 |

In [57]:  `sns.barplot(x='Runtime (Minutes)',y=top10_len.index,data=top10_len)`

Out[57]:  <Axes: xlabel='Runtime (Minutes)', ylabel='Title'>

# 14. Display Number of Movies Per Year

In [58]: `data.columns`

Out[58]:
```
Index(['Rank', 'Title', 'Genre', 'Description', 'Director', 'Actors', 'Year',
       'Runtime (Minutes)', 'Rating', 'Votes', 'Revenue (Millions)',
       'Metascore'],
      dtype='object')
```

In [59]: `data['Year'].value_counts()`

Out[59]:
```
Year
2016   297
2015   127
2014   98
2013   91
2012   64
2011   63
2010   60
2007   53
2008   52
2009   51
2006   44
Name: count, dtype: int64
```

In [60]:
```python
sns.countplot(x='Year',data=data)
plt.title("Number of Movies Per Year")
plt.show()
```
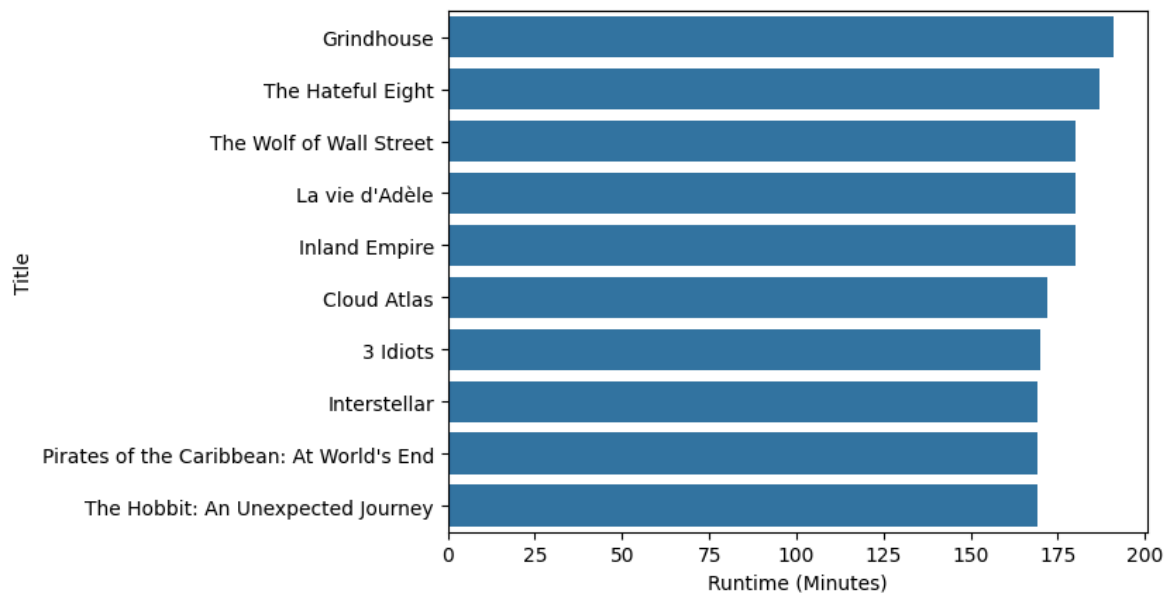
Number of Movies Per Year
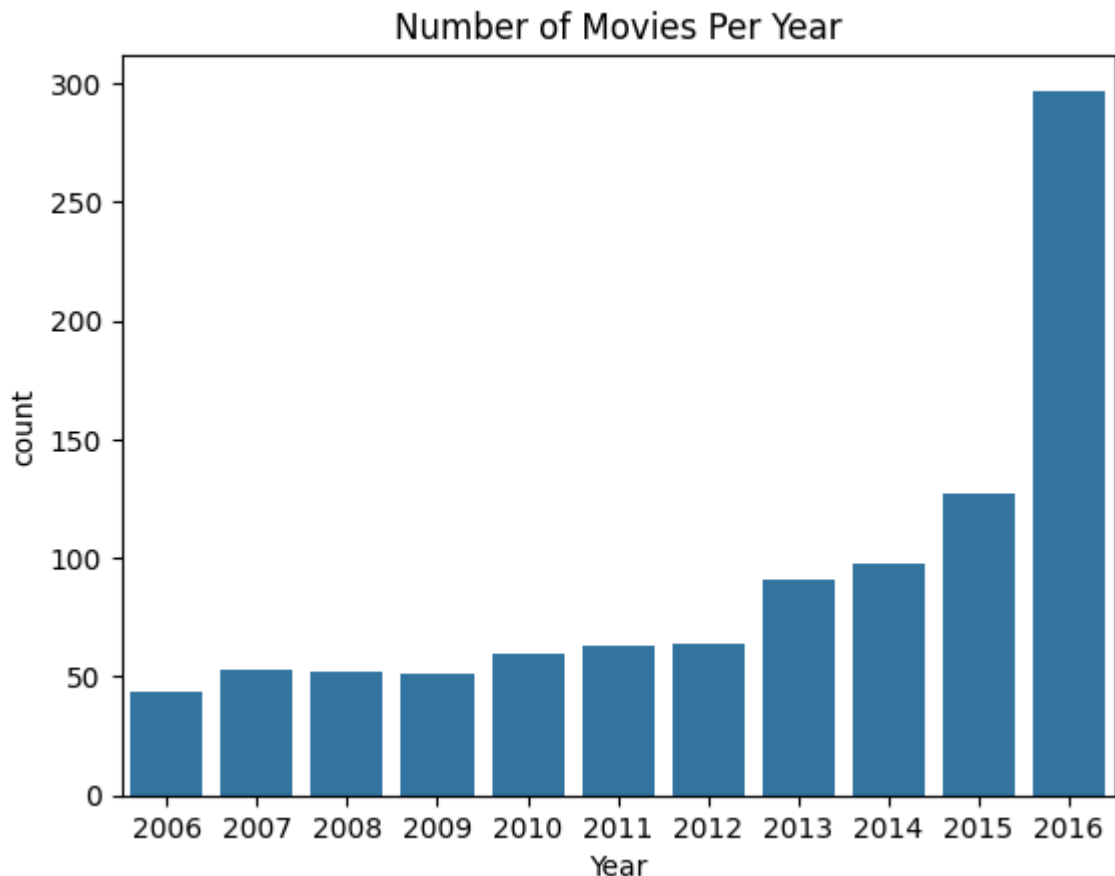
15. Find Most Popular Movie Title (Highest Revenue)

```
In [63]: data.columns
```

```
Out[63]: Index(['Rank', 'Title', 'Genre', 'Description', 'Director', 'Actors', 'Year',
               'Runtime (Minutes)', 'Rating', 'Votes', 'Revenue (Millions)',
               'Metascore'],
              dtype='object')
```

```
In [66]: data[data['Revenue (Millions)'].max()==data['Revenue (Millions)']]['Title']
```

```
Out[66]: 50     Star Wars: Episode VII - The Force Awakens
         Name: Title, dtype: object
```

16. Display Top 10 Highest Rated Movie Titles And its Directors

```
In [67]: data.columns
```

```
Out[67]: Index(['Rank', 'Title', 'Genre', 'Description', 'Director', 'Actors', 'Year',
               'Runtime (Minutes)', 'Rating', 'Votes', 'Revenue (Millions)',
               'Metascore'],
              dtype='object')
```

```
In [68]: top10_len= data.nlargest(10, 'Rating')[['Title', 'Rating','Director']]\
```

```
.set_index('Title')
```

In [69]:
```
top10_len
```

Out[69]:

Title	Rating	Director
The Dark Knight	9.0	Christopher Nolan
Inception	8.8	Christopher Nolan
Dangal	8.8	Nitesh Tiwari
Interstellar	8.6	Christopher Nolan
Kimi no na wa	8.6	Makoto Shinkai
The Intouchables	8.6	Olivier Nakache
The Prestige	8.5	Christopher Nolan
The Departed	8.5	Martin Scorsese
The Dark Knight Rises	8.5	Christopher Nolan
Whiplash	8.5	Damien Chazelle

In [70]:
```
sns.barplot(x= 'Rating',y=top10_len.index,data=top10_len)
```

Out[70]:
```
<Axes: xlabel='Rating', ylabel='Title'>
```
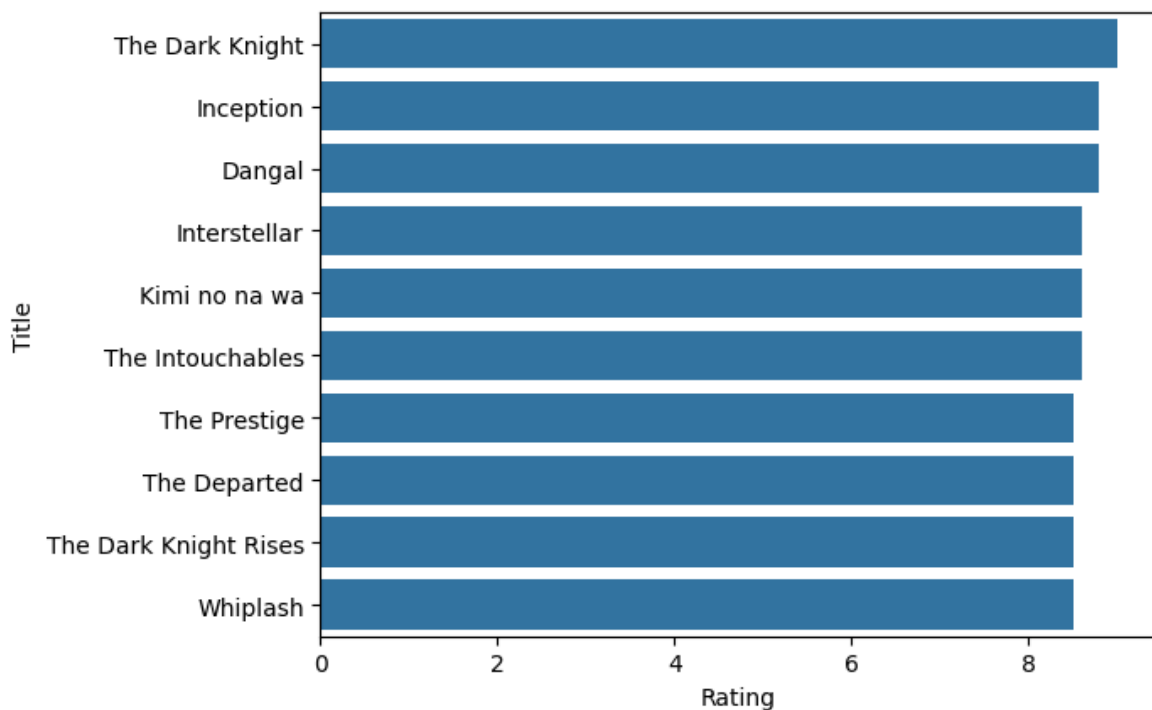

In [72]:
```
sns.barplot(x='Rating',y=top10_len.index,data=top10_len,hue='Director',dodge=Fal
plt.legend(bbox_to_anchor=(1.05,1),loc=2)
```

Out[72]:
```
<matplotlib.legend.Legend at 0x21cb7b854f0>
```
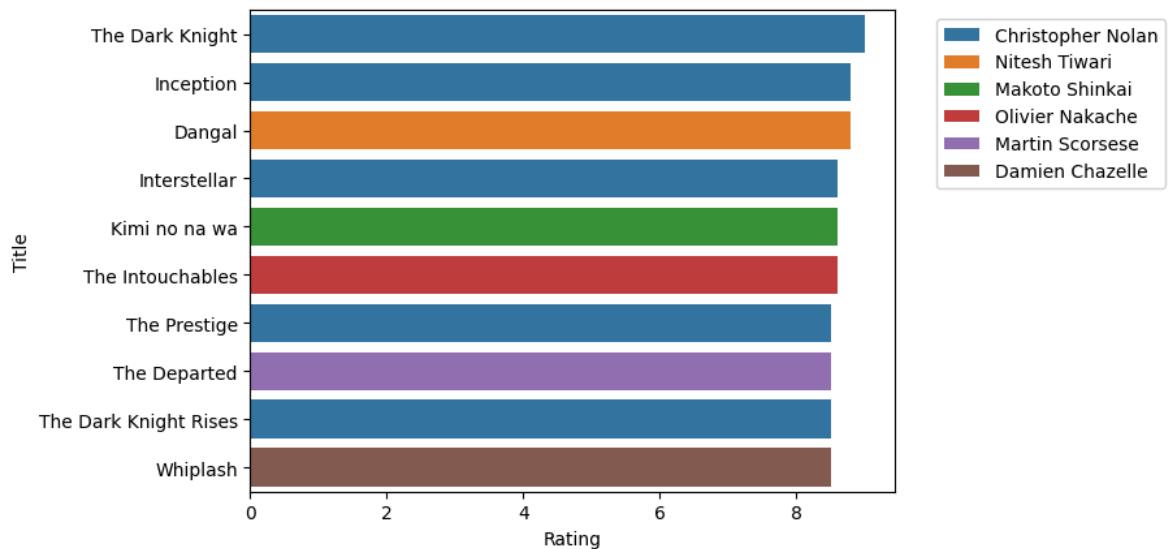
17. Display Top 10 Highest Revenue Movie Titles

In [73]: `data.columns`

Out[73]:
```
Index(['Rank', 'Title', 'Genre', 'Description', 'Director', 'Actors', 'Year',
       'Runtime (Minutes)', 'Rating', 'Votes', 'Revenue (Millions)',
       'Metascore'],
      dtype='object')
```

In [74]:
```python
top10_len= data.nlargest(10, 'Revenue (Millions)')[['Title','Revenue (Millions)'
.set_index('Title')
```

In [75]: `top10_len`

Out[75]:

Title	Revenue (Millions)
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

In [78]:
```python
sns.barplot(x= 'Revenue (Millions)',y=top10_len.index,data=top10_len)
plt.title("Top 10 Highest Revenue (Millions)Earing Movies ")
```

```
plt.show()
```


Top 10 Highest Revenue (Millions)Earing Movies
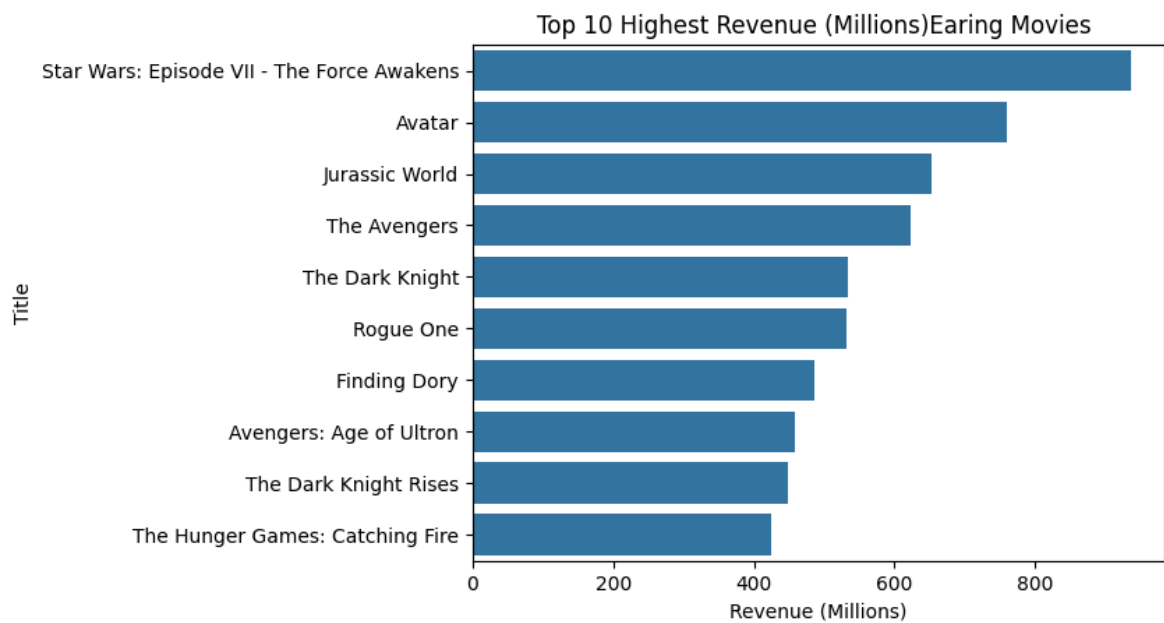
18. Find Average Rating of Movies Year Wise

```
In [79]: data.columns
```

```
Out[79]: Index(['Rank', 'Title', 'Genre', 'Description', 'Director', 'Actors', 'Year',
               'Runtime (Minutes)', 'Rating', 'Votes', 'Revenue (Millions)',
               'Metascore'],
              dtype='object')
```
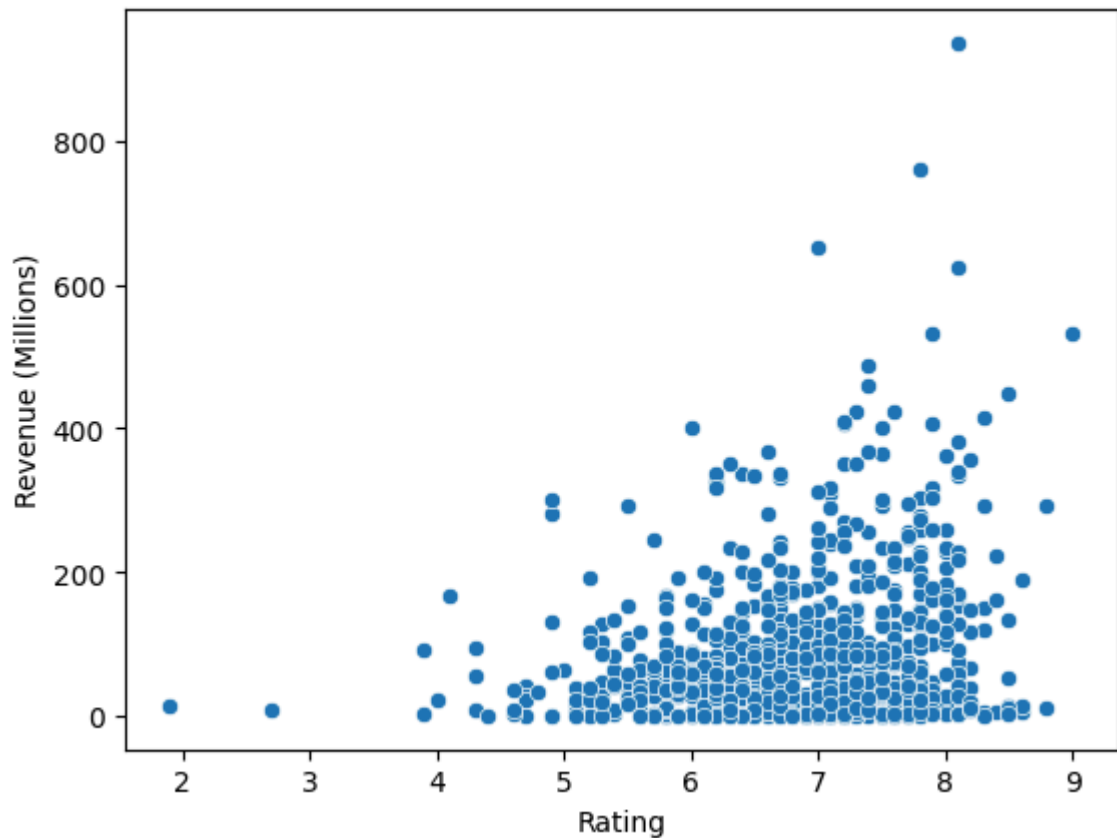
```
In [82]: data.groupby('Year')['Rating'].mean().sort_values(ascending=False)
```

```
Out[82]: Year
         2007    7.133962
         2006    7.125000
         2009    6.960784
         2012    6.925000
         2011    6.838095
         2014    6.837755
         2010    6.826667
         2013    6.812088
         2008    6.784615
         2015    6.602362
         2016    6.436700
         Name: Rating, dtype: float64
```

19. Does Rating Affect The Revenue?

```
In [83]: sns.scatterplot(x='Rating',y='Revenue (Millions)',data=data)
```

```
Out[83]: <Axes: xlabel='Rating', ylabel='Revenue (Millions)'>
```

20. Classify Movies Based on Ratings [Excellent, Good, and Average]

```python
In [86]:  def rating(rating):
              if rating >=7.0:
                  return"Excellent"
              elif rating >=6.0 :
                  return "Good"
              else:
                  return "Average"
```

```python
In [87]:  data['rating_cat']= data['Rating'].apply(rating)
          data.head()
```

Out[87]:

	Rank	Title	Genre	Description	Director	Acto
0	1	Guardians of the Galaxy	Action,Adventure,Sci-Fi	A group of intergalactic criminals are forced ...	James Gunn	Chris Pratt, V Diesel, Brad Cooper, Zoe
1	2	Prometheus	Adventure,Mystery,Sci-Fi	Following clues to the origin of mankind, a te...	Ridley Scott	Noomi Rapa Logan Marsha Green, Michael F
2	3	Split	Horror,Thriller	Three girls are kidnapped by a man with a diag...	M. Night Shyamalan	James McAve Anya Taylor-Je Haley Lu Richa
3	4	Sing	Animation,Comedy,Family	In a city of humanoid animals, a hustling thea...	Christophe Lourdelet	Matth McConaughey,Ree Witherspoon, Se M
4	5	Suicide Squad	Action,Adventure,Fantasy	A secret government agency recruits some of th...	David Ayer	Will Smith, Jar Leto, Marg Robbie, Viola I

21. Count Number of Action Movies

In [88]:
```python
data.columns
```

Out[88]:
```
Index(['Rank', 'Title', 'Genre', 'Description', 'Director', 'Actors', 'Year',
       'Runtime (Minutes)', 'Rating', 'Votes', 'Revenue (Millions)',
       'Metascore', 'rating_cat'],
      dtype='object')
```

In [89]:
```python
data['Genre'].dtype
```

Out[89]:
```
dtype('O')
```

In [90]:
```python
len(data[data['Genre'].str.contains('Action',case=False)])
```

Out[90]:
```
303
```

22. Find Unique Values From Genre

In [93]:
```python
data['Genre']
```

Out[93]:
```
0          Action,Adventure,Sci-Fi
1          Adventure,Mystery,Sci-Fi
2                    Horror,Thriller
3          Animation,Comedy,Family
4          Action,Adventure,Fantasy
                   ...
995          Crime,Drama,Mystery
996                        Horror
997          Drama,Music,Romance
998              Adventure,Comedy
999          Comedy,Family,Fantasy
Name: Genre, Length: 1000, dtype: object
```

In [94]:
```python
list1=[]
for value in data['Genre']:
    list1.append(value.split(','))
```

In [95]:
```python
list1
```

```
Out[95]: [['Action', 'Adventure', 'Sci-Fi'],
          ['Adventure', 'Mystery', 'Sci-Fi'],
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```python
In [97]:  one_d=[]
          for item in list1:
              for item1 in item:
                  one_d.append(item)
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```python
In [98]:  one_d
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```

In [101…
```python
uni_list=[]
for item in one_d:
    if item not in uni_list:
        uni_list.append(item)
```

In [102…
```python
uni_list
```

```
Out[102…    [['Action', 'Adventure', 'Sci-Fi'],
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             ['Action', 'Biography', 'Drama'],
             ['Drama', 'Horror', 'Mystery'],
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```

23. How Many Films of Each Genre Were Made?

In [103…   `len(uni_list)`

Out[103…   207

In [104…
```python
one_d=[]
for item in list1:
    for item1 in item:
        one_d.append(item)
```

In [105…   `one_d`

```
Out[105…     [['Action', 'Adventure', 'Sci-Fi'],
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