

# TASK 4 - Movie Ratings Analysis (Data Analytics) - DEBANSHU SAHA

```
In [2]: import pandas as pd  
import seaborn as sns  
import matplotlib.pyplot as plt
```

```
In [3]: data=pd.read_csv('IMDB-Movie-Data.csv')
```

## Displaying Top 10 Rows of The Dataset

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

Out[5]:

	Rank	Title	Genre	Description	Director	Actors	Year
0	1	Guardians of the Galaxy	Action,Adventure,Sci-Fi	A group of intergalactic criminals are forced ...	James Gunn	Chris Pratt, Vin Diesel, Bradley Cooper, Zoe S...	2014
1	2	Prometheus	Adventure,Mystery,Sci-Fi	Following clues to the origin of mankind, a te...	Ridley Scott	Noomi Rapace, Logan Marshall-Green, Michael Fa...	2012
2	3	Split	Horror,Thriller	Three girls are kidnapped by a man with a diag...	M. Night Shyamalan	James McAvoy, Anya Taylor-Joy, Haley Lu Richar...	2016
3	4	Sing	Animation,Comedy,Family	In a city of humanoid animals, a hustling thea...	Christophe Lourdelet	Matthew McConaughey,Reese Witherspoon, Seth Ma...	2016
4	5	Suicide Squad	Action,Adventure,Fantasy	A secret government agency recruits some of th...	David Ayer	Will Smith, Jared Leto, Margot Robbie, Viola D...	2016
5	6	The Great Wall	Action,Adventure,Fantasy	European mercenaries searching for black powde...	Yimou Zhang	Matt Damon, Tian Jing, Willem Dafoe, Andy Lau	2016
6	7	La La Land	Comedy,Drama,Music	A jazz pianist falls for an aspiring actress i...	Damien Chazelle	Ryan Gosling, Emma Stone, Rosemarie DeWitt, J....	2016
7	8	Mindhorn	Comedy	A has-been actor best known for playing the ti...	Sean Foley	Essie Davis, Andrea Riseborough, Julian Barrat...	2016
8	9	The Lost City of Z	Action,Adventure,Biography	A true-life drama, centering on British explor...	James Gray	Charlie Hunnam, Robert Pattinson, Sienna Mille...	2016
9	10	Passengers	Adventure,Drama,Romance	A spacecraft traveling to a distant colony pla...	Morten Tyldum	Jennifer Lawrence, Chris Pratt, Michael Sheen,...	2016



# Checking Last 10 Rows Of The Dataset

```
In [6]: data.tail(10)
```

Out[6]:

	Rank	Title	Genre	Description	Director	Actors	Year
990	991	Underworld: Rise of the Lycans	Action,Adventure,Fantasy	An origins story centered on the centuries-old...	Patrick Tatopoulos	Rhona Mitra, Michael Sheen, Bill Nighy, Steven...	2009
991	992	Taare Zameen Par	Drama,Family,Music	An eight-year-old boy is thought to be a lazy ...	Aamir Khan	Darsheel Safary, Aamir Khan, Tanay Chheda, Sac...	2007
992	993	Take Me Home Tonight	Comedy,Drama,Romance	Four years after graduation, an awkward high s...	Michael Dowse	Topher Grace, Anna Faris, Dan Fogler, Teresa P...	2011
993	994	Resident Evil: Afterlife	Action,Adventure,Horror	While still out to destroy the evil Umbrella C...	Paul W.S. Anderson	Milla Jovovich, Ali Larter, Wentworth Miller,K...	2010
994	995	Project X	Comedy	3 high school seniors throw a birthday party t...	Nima Nourizadeh	Thomas Mann, Oliver Cooper, Jonathan Daniel Br...	2012
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...	2015
996	997	Hostel: Part II	Horror	Three American college students studying abroa...	Eli Roth	Lauren German, Heather Matarazzo, Bijou Philli...	2007
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,...	2008
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...	2014
999	1000	Nine Lives	Comedy,Family,Fantasy	A stuffy businessman finds himself trapped ins...	Barry Sonnenfeld	Kevin Spacey, Jennifer Garner, Robbie Amell,Ch...	2016

# Finding the Shape of Our Dataset (Number of Rows And Number of Columns)

```
In [7]: data.shape
```

```
Out[7]: (1000, 12)
```

## Printing The Number of Rows And Number of Columns

```
In [8]: 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 .

```
In [9]: 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
```

## Checking Null Values In The Dataset.

```
In [10]: print("Any missing value?",data.isnull().values.any())
```

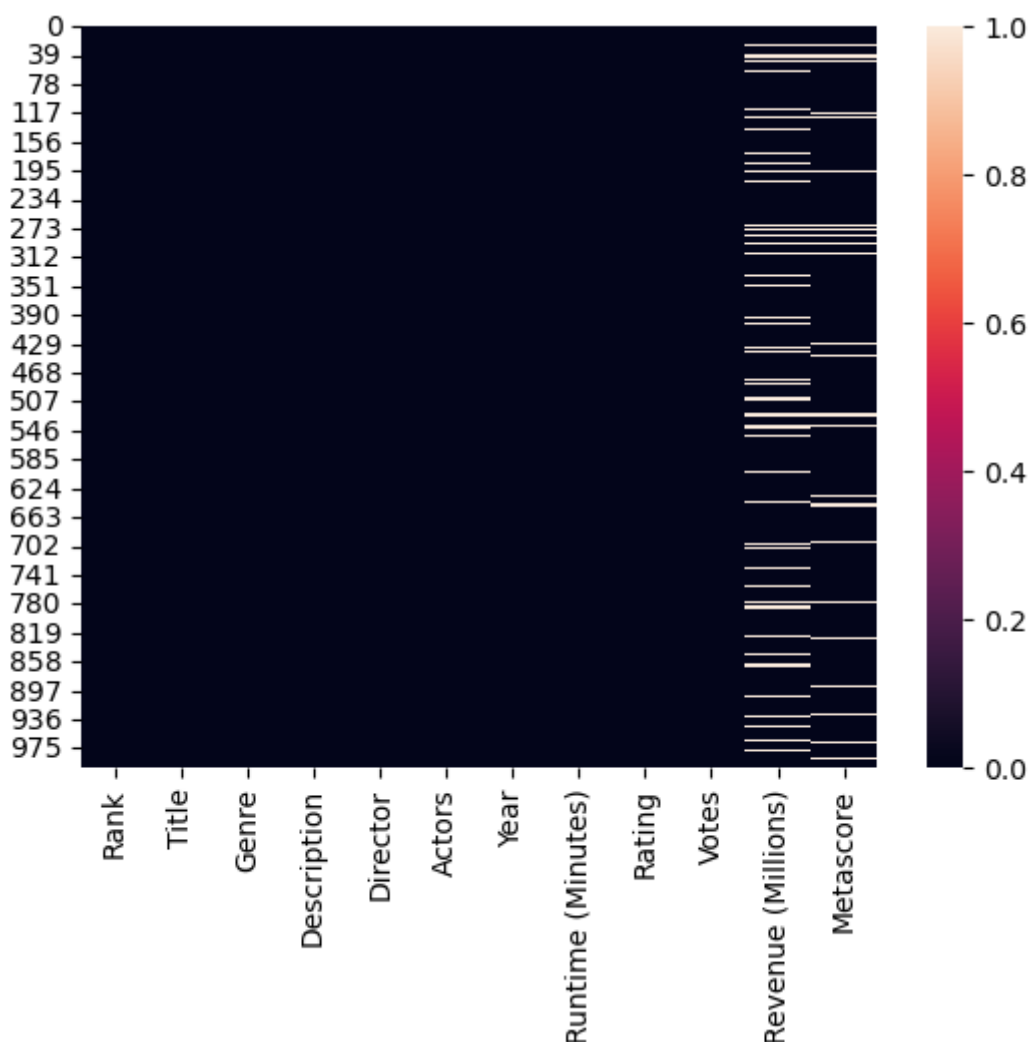
```
Any missing value? True
```

```
In [12]: data.isnull().sum()    # there are missing values in two columns which are 'Revenue
```

```
Out[12]: 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
```

## Visualising the missing values using Heatmaps

```
In [14]: sns.heatmap(data.isnull())
plt.show()
```



## Finding Missing Values in Percentage form

```
In [20]: per_missing = data.isnull().sum() * 100 / len(data)
print(per_missing)
```

```
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
```

## Drop All The Missing Values

```
In [27]: data.dropna(axis=0) #axis=0 means drop rows which contains missing values
          #axis=1 means drop columns which contains missing values
```

Out[27]:

	Rank	Title	Genre	Description	Director	Actors	Year
0	1	Guardians of the Galaxy	Action,Adventure,Sci-Fi	A group of intergalactic criminals are forced ...	James Gunn	Chris Pratt, Vin Diesel, Bradley Cooper, Zoe S...	2017
1	2	Prometheus	Adventure,Mystery,Sci-Fi	Following clues to the origin of mankind, a te...	Ridley Scott	Noomi Rapace, Logan Marshall-Green, Michael Fa...	2012
2	3	Split	Horror,Thriller	Three girls are kidnapped by a man with a diag...	M. Night Shyamalan	James McAvoy, Anya Taylor-Joy, Haley Lu Richar...	2016
3	4	Sing	Animation,Comedy,Family	In a city of humanoid animals, a hustling thea...	Christophe Lourdelet	Matthew McConaughey,Reese Witherspoon, Seth Ma...	2016
4	5	Suicide Squad	Action,Adventure,Fantasy	A secret government agency recruits some of th...	David Ayer	Will Smith, Jared Leto, Margot Robbie, Viola D...	2016
...	...	...	...	...	...	...	...
993	994	Resident Evil: Afterlife	Action,Adventure,Horror	While still out to destroy the evil Umbrella C...	Paul W.S. Anderson	Milla Jovovich, Ali Larter, Wentworth Miller,K...	2010
994	995	Project X	Comedy	3 high school seniors throw a birthday party t...	Nima Nourizadeh	Thomas Mann, Oliver Cooper, Jonathan Daniel Br...	2012
996	997	Hostel: Part II	Horror	Three American college students studying abroa...	Eli Roth	Lauren German, Heather Matarazzo, Bijou Philli...	2007
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,...	2006
999	1000	Nine Lives	Comedy,Family,Fantasy	A stuffy businessman finds himself trapped ins...	Barry Sonnenfeld	Kevin Spacey, Jennifer Garner, Robbie Amell,Ch...	2011

838 rows × 12 columns



## Checking For Duplicate Data

```
In [28]: dup_data=data.duplicated().any()  
print("Are there any duplicated values in data?",dup_data)
```

Are there any duplicated values in data? False

## To Get Overall Statistics About the DataFrame

```
In [32]: data.describe()
```

Out[32]:

	Rank	Year	Runtime (Minutes)	Rating	Votes	Revenue (Millions)	Metascore
<b>count</b>	838.000000	838.00000	838.000000	838.000000	8.380000e+02	838.000000	838.000000
<b>mean</b>	485.247017	2012.50716	114.638425	6.814320	1.932303e+05	84.564558	59.575179
<b>std</b>	286.572065	3.17236	18.470922	0.877754	1.930990e+05	104.520227	16.952416
<b>min</b>	1.000000	2006.00000	66.000000	1.900000	1.780000e+02	0.000000	11.000000
<b>25%</b>	238.250000	2010.00000	101.000000	6.300000	6.127650e+04	13.967500	47.000000
<b>50%</b>	475.500000	2013.00000	112.000000	6.900000	1.368795e+05	48.150000	60.000000
<b>75%</b>	729.750000	2015.00000	124.000000	7.500000	2.710830e+05	116.800000	72.000000
<b>max</b>	1000.000000	2016.00000	187.000000	9.000000	1.791916e+06	936.630000	100.000000

## To Find Out In Which Year There Was The Highest Voting?

```
In [33]: data.columns
```

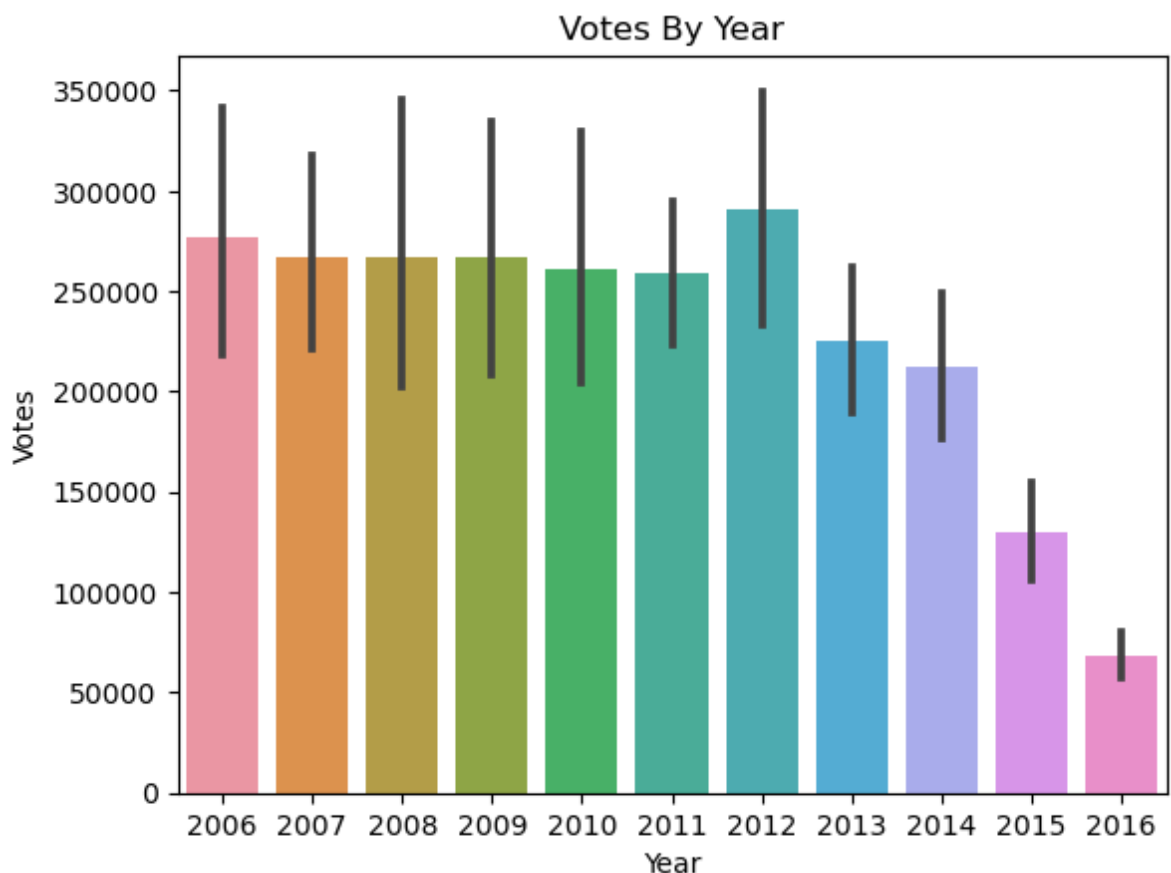
```
Out[33]: Index(['Rank', 'Title', 'Genre', 'Description', 'Director', 'Actors', 'Year',  
              'Runtime (Minutes)', 'Rating', 'Votes', 'Revenue (Millions)',  
              'Metascore'],  
              dtype='object')
```

```
In [34]: data.groupby('Year')['Votes'].mean().sort_values(ascending=False)
```

```
Out[34]: Year
2012      290861.483871
2006      277232.219512
2009      267180.577778
2008      266580.145833
2007      266530.704545
2010      261082.929825
2011      259254.736842
2013      225531.892857
2014      211926.881720
2015      129512.651376
2016       68437.823232
Name: Votes, dtype: float64
```

## Visualising The Highest Voting Year Using BarPlot

```
In [35]: sns.barplot(x='Year',y='Votes',data=data)
plt.title("Votes By Year")
plt.show()      #2012 was the year of highest voting
```



## Finding Out In Which Year There Was The Highest Revenue

```
In [36]: data.columns
```

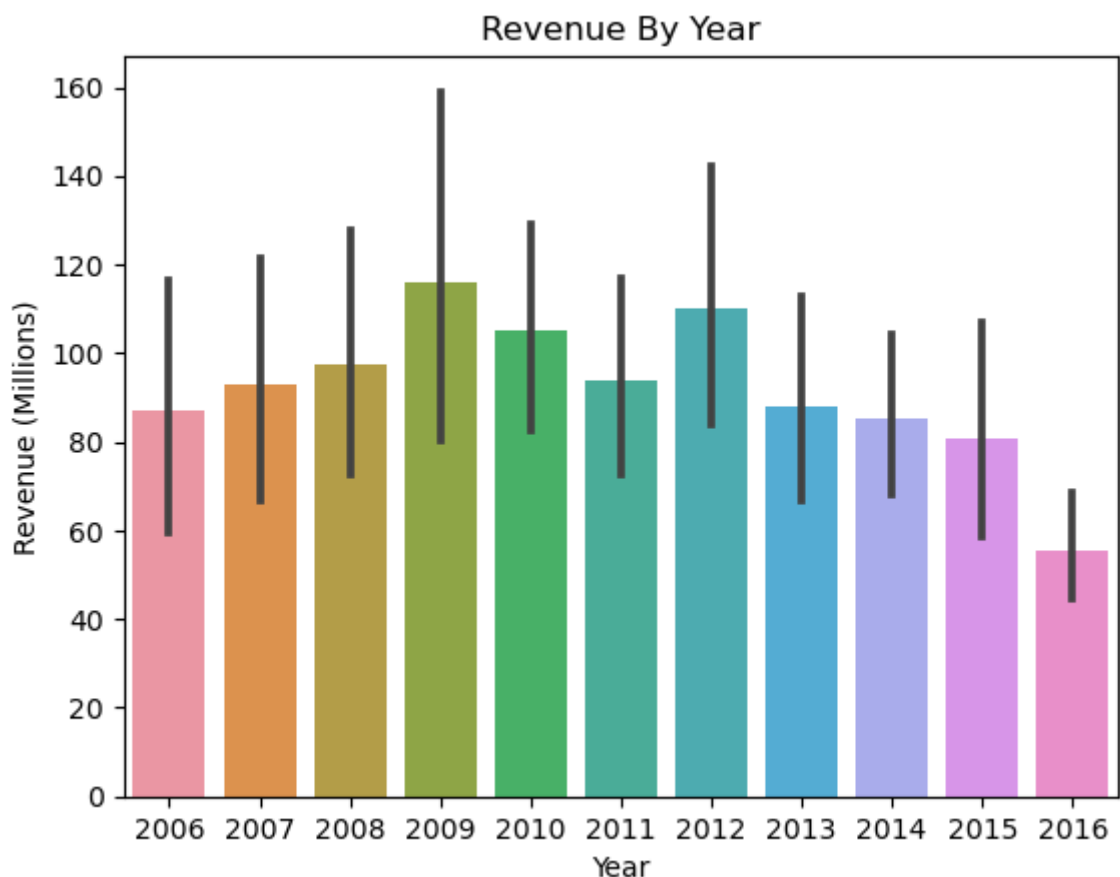
```
Out[36]: Index(['Rank', 'Title', 'Genre', 'Description', 'Director', 'Actors', 'Year',  
        'Runtime (Minutes)', 'Rating', 'Votes', 'Revenue (Millions)',  
        'Metascore'],  
        dtype='object')
```

```
In [37]: data.groupby('Year')['Revenue (Millions)'].mean().sort_values(ascending=False)
```

```
Out[37]: Year  
2009    115.742000  
2012    110.103065  
2010    105.081579  
2008     97.525417  
2011     93.703333  
2007     93.074091  
2013     88.084643  
2006     87.255610  
2014     85.433656  
2015     80.725596  
2016     55.566111  
Name: Revenue (Millions), dtype: float64
```

## Visualising The Highest Revenue Year Using BarPlot

```
In [38]: sns.barplot(x='Year',y='Revenue (Millions)',data=data)  
plt.title("Revenue By Year")  
plt.show()      # 2009 was the highest revenue year
```



## To Find The Average Rating For Each Director

```
In [39]: data.columns
```

```
Out[39]: Index(['Rank', 'Title', 'Genre', 'Description', 'Director', 'Actors', 'Year',  
              'Runtime (Minutes)', 'Rating', 'Votes', 'Revenue (Millions)',  
              'Metascore'],  
              dtype='object')
```

```
In [42]: data.groupby('Director')['Rating'].mean().sort_values(ascending=False)
```

```
Out[42]: 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
```

## Displaying Top 10 Lengthy Movies Title and Runtime

```
In [43]: data.columns
```

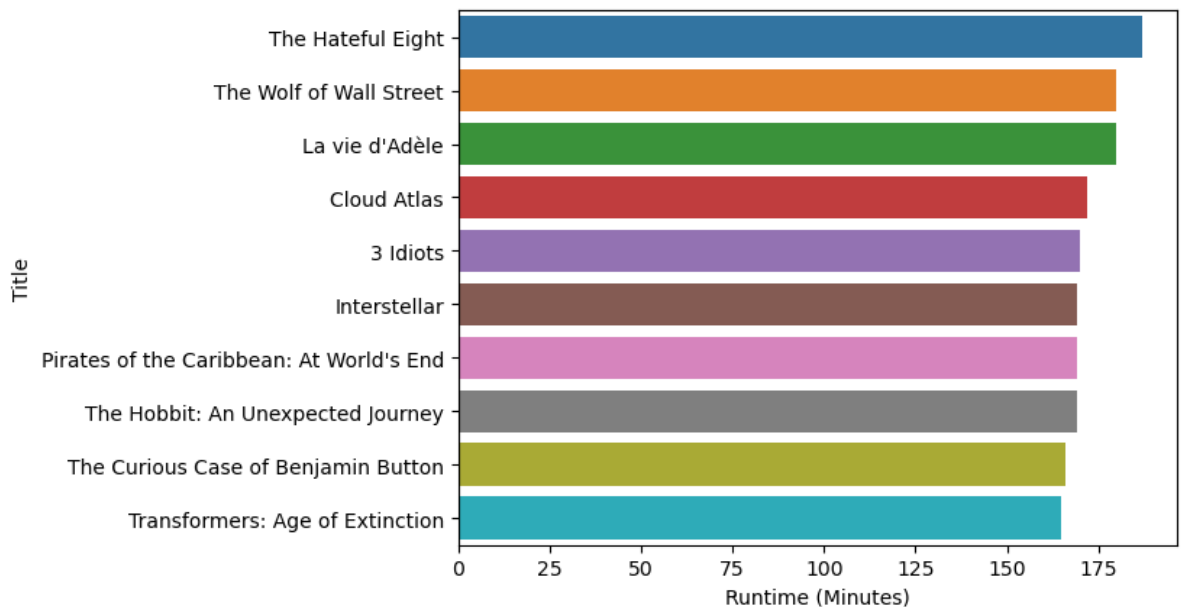
```
Out[43]: Index(['Rank', 'Title', 'Genre', 'Description', 'Director', 'Actors', 'Year',  
              'Runtime (Minutes)', 'Rating', 'Votes', 'Revenue (Millions)',  
              'Metascore'],  
              dtype='object')
```

```
In [44]: top10_len=data.nlargest(10,'Runtime (Minutes)')[['Title','Runtime (Minutes)']]. \  
         set_index('Title')  
         print(top10_len)
```

	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

## Visualising Top 10 Lengthy Movies Title and Runtime

```
In [45]: sns.barplot(x='Runtime (Minutes)',y=top10_len.index,data=top10_len)  
plt.show()
```



## To Display Number of Movies Per Year

In [46]: `data.columns`

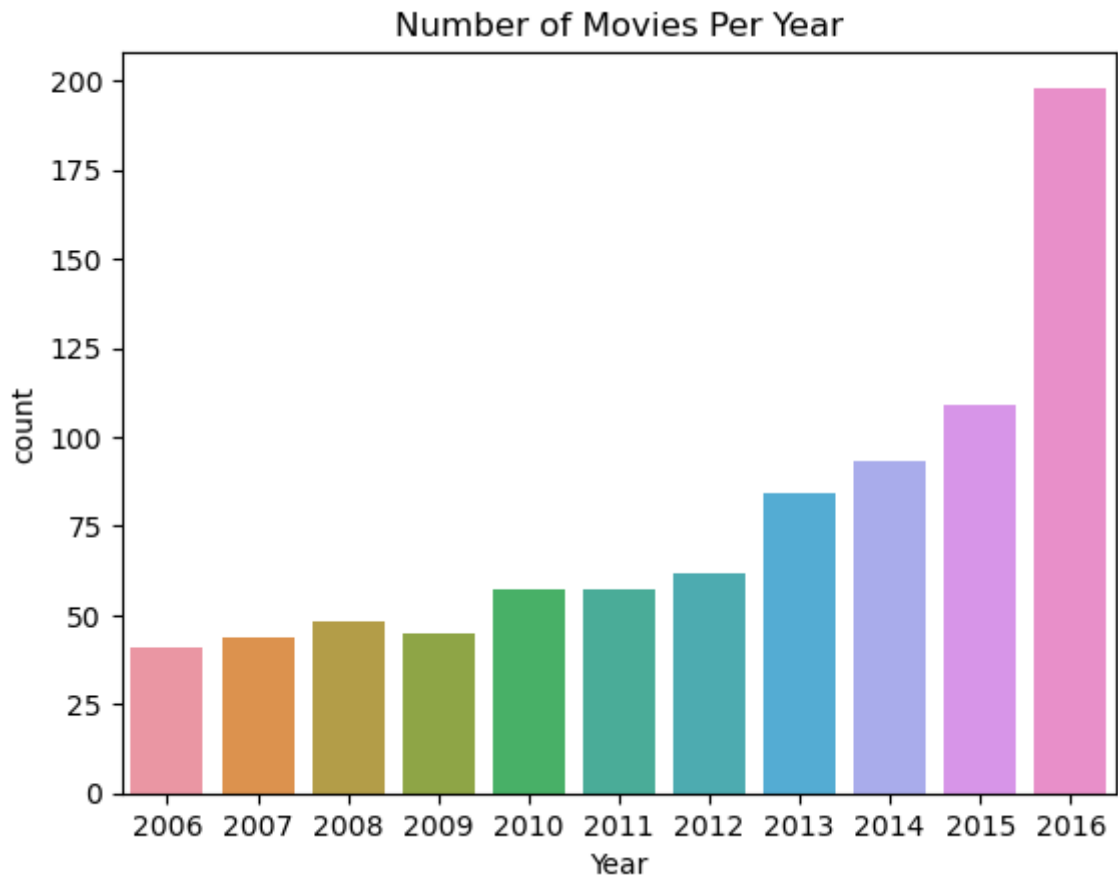
Out[46]: Index(['Rank', 'Title', 'Genre', 'Description', 'Director', 'Actors', 'Year',  
'Runtime (Minutes)', 'Rating', 'Votes', 'Revenue (Millions)',  
'Metascore'],  
dtype='object')

In [47]: `data['Year'].value_counts()`

Out[47]: 2016 198  
2015 109  
2014 93  
2013 84  
2012 62  
2011 57  
2010 57  
2008 48  
2009 45  
2007 44  
2006 41  
Name: Year, dtype: int64

## Visualising Number of Movies Per Year

In [50]: `sns.countplot(x='Year', data=data)`  
`plt.title("Number of Movies Per Year")`  
`plt.show()`  
*# In 2016, 198 movies was released*



## Finding Most Popular Movie Title (Highest Revenue)

In [51]: `data.columns`

Out[51]: Index(['Rank', 'Title', 'Genre', 'Description', 'Director', 'Actors', 'Year',  
'Runtime (Minutes)', 'Rating', 'Votes', 'Revenue (Millions)',  
'Metascore'],  
dtype='object')

In [52]: `data[data['Revenue (Millions)'].max() == data['Revenue (Millions)']]['Title']`

Out[52]: 50 Star Wars: Episode VII - The Force Awakens  
Name: Title, dtype: object

## Displaying Top 10 Highest Rated Movie Titles And its Directors

In [53]: `data.columns`

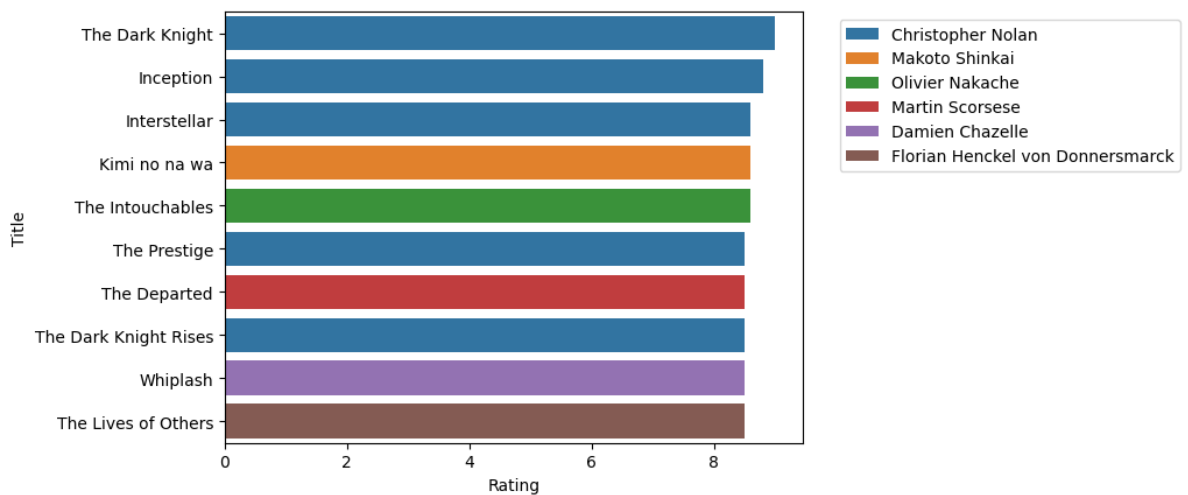
Out[53]: Index(['Rank', 'Title', 'Genre', 'Description', 'Director', 'Actors', 'Year',  
'Runtime (Minutes)', 'Rating', 'Votes', 'Revenue (Millions)',  
'Metascore'],  
dtype='object')

In [55]: `top10_len=data.nlargest(10,'Rating')[['Title','Rating','Director']].set_index('Title')  
print(top10_len)`

Title	Rating	Director
The Dark Knight	9.0	Christopher Nolan
Inception	8.8	Christopher Nolan
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
The Lives of Others	8.5	Florian Henckel von Donnersmarck

## Visualising Top 10 Highest Rated Movie Titles And its Directors

```
In [59]: sns.barplot(x='Rating',y=top10_len.index,data=top10_len,hue='Director',dodge=False)
plt.legend(bbox_to_anchor=(1.05,1),loc=2)
plt.show()
```



## Displaying Top 10 Highest Revenue Movie Titles

```
In [60]: data.columns
```

```
Out[60]: Index(['Rank', 'Title', 'Genre', 'Description', 'Director', 'Actors', 'Year',
        'Runtime (Minutes)', 'Rating', 'Votes', 'Revenue (Millions)',
        'Metascore'],
        dtype='object')
```

```
In [63]: data.sort_values(by='Revenue (Millions)',ascending=False).head(10)
```

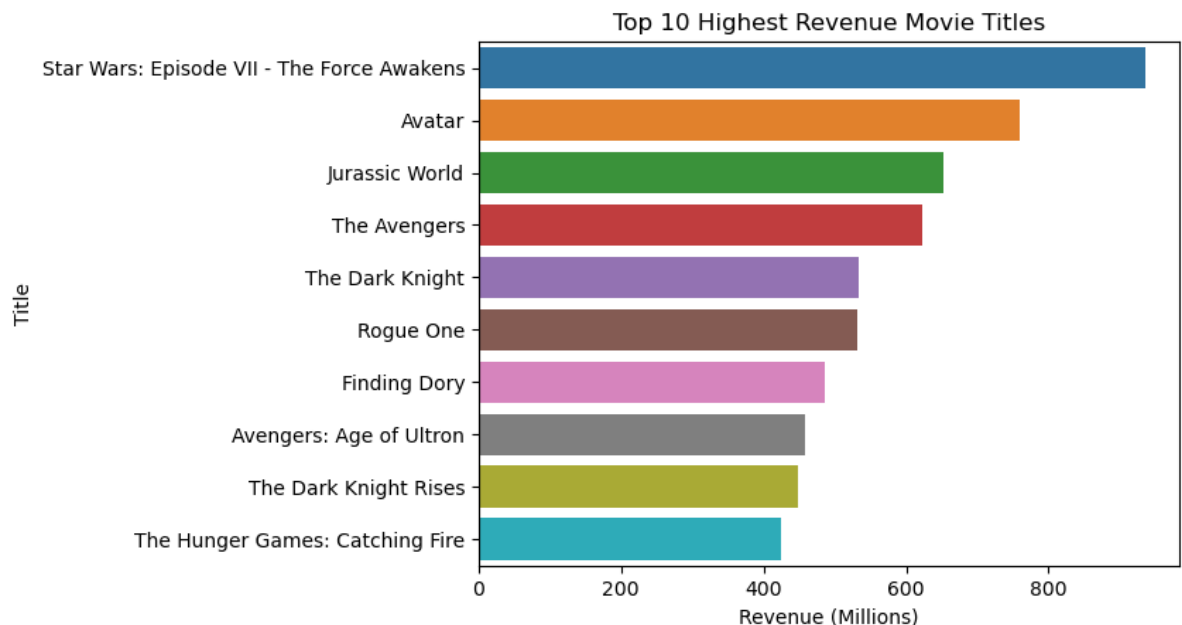
Out[63]:

	Rank	Title	Genre	Description	Director	Actors	Year
50	51	Star Wars: Episode VII - The Force Awakens	Action,Adventure,Fantasy	Three decades after the defeat of the Galactic...	J.J. Abrams	Daisy Ridley, John Boyega, Oscar Isaac, Domhna...	2015
87	88	Avatar	Action,Adventure,Fantasy	A paraplegic marine dispatched to the moon Pan...	James Cameron	Sam Worthington, Zoe Saldana, Sigourney Weaver...	2009
85	86	Jurassic World	Action,Adventure,Sci-Fi	A new theme park, built on the original site o...	Colin Trevorrow	Chris Pratt, Bryce Dallas Howard, Ty Simpkins,...	2015
76	77	The Avengers	Action,Sci-Fi	Earth's mightiest heroes must come together an...	Joss Whedon	Robert Downey Jr., Chris Evans, Scarlett Johan...	2012
54	55	The Dark Knight	Action,Crime,Drama	When the menace known as the Joker wreaks havo...	Christopher Nolan	Christian Bale, Heath Ledger, Aaron Eckhart,Mi...	2008
12	13	Rogue One	Action,Adventure,Sci-Fi	The Rebel Alliance makes a risky move to steal...	Gareth Edwards	Felicity Jones, Diego Luna, Alan Tudyk, Donnie...	2016
119	120	Finding Dory	Animation,Adventure,Comedy	The friendly but forgetful blue tang fish, Dor...	Andrew Stanton	Ellen DeGeneres, Albert Brooks,Ed O'Neill, Kai...	2016
94	95	Avengers: Age of Ultron	Action,Adventure,Sci-Fi	When Tony Stark and Bruce Banner try to jump-s...	Joss Whedon	Robert Downey Jr., Chris Evans, Mark Ruffalo, ...	2015
124	125	The Dark Knight Rises	Action,Thriller	Eight years after the Joker's reign of anarchy...	Christopher Nolan	Christian Bale, Tom Hardy, Anne Hathaway,Gary ...	2012
578	579	The Hunger Games: Catching Fire	Action,Adventure,Mystery	Katniss Everdeen and Peeta Mellark become targ	Francis Lawrence	Jennifer Lawrence, Josh Hutcherson, Liam Hemsw...	2013



# Visualising Top 10 Highest Revenue Movie Titles

```
In [65]: sns.barplot(x='Revenue (Millions)',y=top_10.index,data=top_10)
plt.title("Top 10 Highest Revenue Movie Titles")
plt.show()
```



## Find Average Rating of Movies Year-wise

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

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

```
In [72]: data.groupby('Year')['Rating'].mean().sort_values(ascending=False)
```

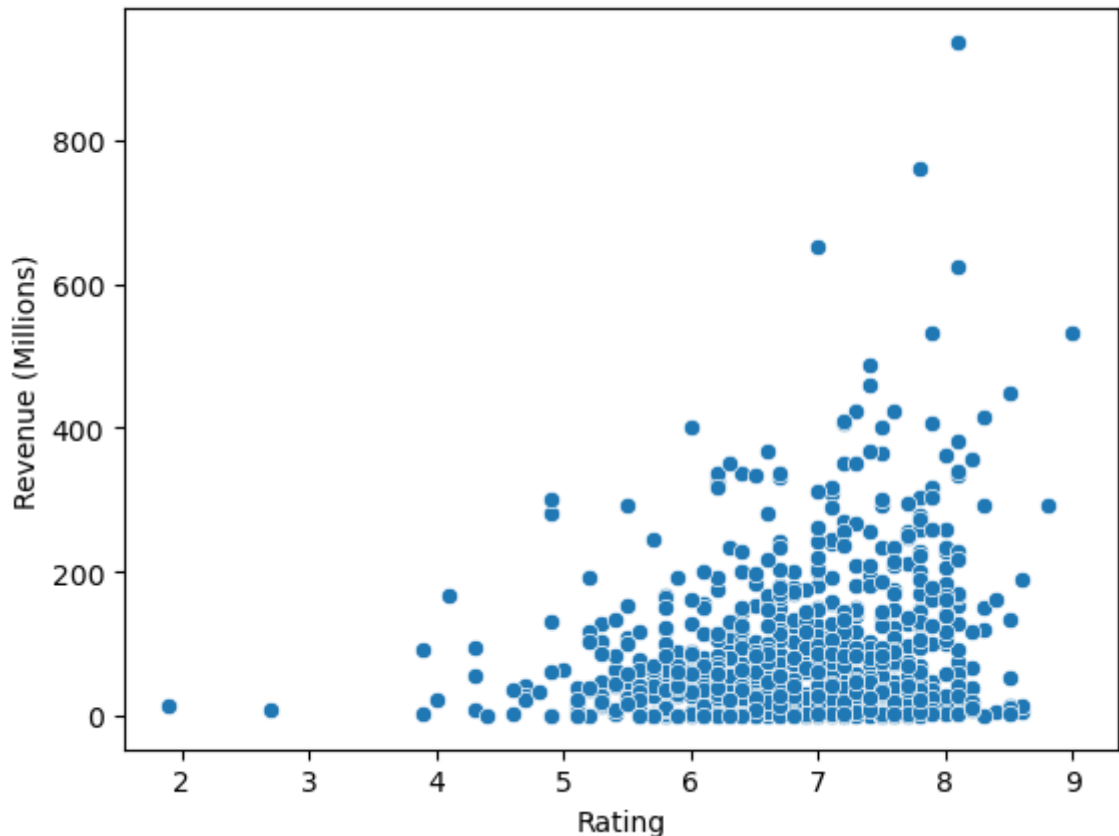
```
Out[72]: Year
2006      7.143902
2007      7.140909
2011      6.945614
2012      6.933871
2009      6.911111
2010      6.894737
2013      6.832143
2014      6.822581
2008      6.708333
2015      6.674312
2016      6.644444
Name: Rating, dtype: float64
```

## Does Rating Affect The Revenue? Visualising using Scatter Plot

```
In [74]: data.columns
```

```
Out[74]: Index(['Rank', 'Title', 'Genre', 'Description', 'Director', 'Actors', 'Year',  
              'Runtime (Minutes)', 'Rating', 'Votes', 'Revenue (Millions)',  
              'Metascore'],  
              dtype='object')
```

```
In [76]: sns.scatterplot(x='Rating',y='Revenue (Millions)',data=data)  
plt.show()      # YES
```



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

```
In [77]: data.columns
```

```
Out[77]: Index(['Rank', 'Title', 'Genre', 'Description', 'Director', 'Actors', 'Year',  
              'Runtime (Minutes)', 'Rating', 'Votes', 'Revenue (Millions)',  
              'Metascore'],  
              dtype='object')
```

```
In [78]: def rating(rating):  
          if rating>=7.0:  
              return 'Excellent'  
          elif rating>=6.0:  
              return 'Good'  
          else:  
              return 'Average'
```

```
In [79]: data['rating_star']=data['Rating'].apply(rating)  
data.head()
```

Out[79]:

	Rank	Title	Genre	Description	Director	Actors	Year
0	1	Guardians of the Galaxy	Action,Adventure,Sci-Fi	A group of intergalactic criminals are forced ...	James Gunn	Chris Pratt, Vin Diesel, Bradley Cooper, Zoe S...	2014
1	2	Prometheus	Adventure,Mystery,Sci-Fi	Following clues to the origin of mankind, a te...	Ridley Scott	Noomi Rapace, Logan Marshall-Green, Michael Fa...	2012
2	3	Split	Horror,Thriller	Three girls are kidnapped by a man with a diag...	M. Night Shyamalan	James McAvoy, Anya Taylor-Joy, Haley Lu Richar...	2016
3	4	Sing	Animation,Comedy,Family	In a city of humanoid animals, a hustling thea...	Christophe Lourdelet	Matthew McConaughey,Reese Witherspoon, Seth Ma...	2016
4	5	Suicide Squad	Action,Adventure,Fantasy	A secret government agency recruits some of th...	David Ayer	Will Smith, Jared Leto, Margot Robbie, Viola D...	2016



## To Count Number of Action Movies

```
In [80]: data.columns
```

```
Out[80]: Index(['Rank', 'Title', 'Genre', 'Description', 'Director', 'Actors', 'Year',  
        'Runtime (Minutes)', 'Rating', 'Votes', 'Revenue (Millions)',  
        'Metascore', 'rating_star'],  
        dtype='object')
```

```
In [81]: data['Genre'].dtype
```

```
Out[81]: dtype('O')
```

```
In [83]: len(data[data['Genre'].str.contains('Action',case=False)])
```

```
Out[83]: 277
```

## Finding Unique Values From Genre

```
In [84]: data.columns
```

```
Out[84]: Index(['Rank', 'Title', 'Genre', 'Description', 'Director', 'Actors', 'Year',  
              'Runtime (Minutes)', 'Rating', 'Votes', 'Revenue (Millions)',  
              'Metascore', 'rating_star'],  
              dtype='object')
```

```
In [85]: data['Genre']
```

```
Out[85]: 0      Action,Adventure,Sci-Fi  
1      Adventure,Mystery,Sci-Fi  
2      Horror,Thriller  
3      Animation,Comedy,Family  
4      Action,Adventure,Fantasy  
      ...  
993     Action,Adventure,Horror  
994                        Comedy  
996                        Horror  
997     Drama,Music,Romance  
999     Comedy,Family,Fantasy  
Name: Genre, Length: 838, dtype: object
```

```
In [92]: list1=[]  
for value in data['Genre']:  
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## Converting 2d list in 1d

```
In [93]: one_d=[]
          for item in list1:
              for item1 in item:
                  one_d.append(item1)
          one_d
```

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```

```
In [96]: uni_list=[]  
         for item in one_d:  
             if item not in uni_list:  
                 uni_list.append(item)  
         uni_list
```

```
Out[96]: ['Action',
           'Adventure',
           'Sci-Fi',
           'Mystery',
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           'History',
           'Western',
           'Crime',
           'War',
           'Musical',
           'Sport']
```

## Finding Out How Many Films of Each Genre Were Made?

```
In [97]: one_d=[]
          for item in list1:
              for item1 in item:
                  one_d.append(item1)
          one_d
```

```
Out[97]: ['Action',
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```
In [98]: from collections import Counter
Counter(one_d)
```

```
Out[98]: Counter({'Action': 277,  
                  'Adventure': 244,  
                  'Sci-Fi': 107,  
                  'Mystery': 86,  
                  'Horror': 87,  
                  'Thriller': 148,  
                  'Animation': 45,  
                  'Comedy': 250,  
                  'Family': 48,  
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                  'Drama': 419,  
                  'Music': 15,  
                  'Biography': 67,  
                  'Romance': 120,  
                  'History': 25,  
                  'Western': 4,  
                  'Crime': 126,  
                  'War': 10,  
                  'Musical': 5,  
                  'Sport': 15})
```

**With This I conclude my Task 4 Project.**