

```
In [1]: import numpy as np # Linear algebra
import pandas as pd # data processing, CSV file I/O (e.g. pd.read_csv)
import matplotlib.pyplot as plt
import seaborn as sns
from sklearn.linear_model import LogisticRegression

%matplotlib inline

import warnings
warnings.simplefilter('ignore')
```

```
In [ ]: # Install necessary Libraries
pip install datasets
pip install transformers
pip install sklearn

from datasets import load_dataset

# Load the IMDb dataset
dataset = load_dataset("imdb")
```

```
In [5]: import os
```

```
In [18]: df = pd.read_csv(r"C:\Users\Anjali Kumari\Downloads\archive (7)\IMDB-Movie-Data.csv")
```

```
In [20]: df.head(5)
```

Out[20]:		Rank	Title	Genre	Description	Director	Actors	Year	Ru (Mir)
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		

In [22]: df.tail(10)

Out[22]:

	Rank	Title	Genre	Description	Director	Actors	Year	Rur (Min)
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 Phillips...	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	

```
In [23]: df.shape
```

```
Out[23]: (1000, 12)
```

```
In [24]: print("No. of Rows: ",df.shape[0])
print("No. of Columns: ",df.shape[1])
```

```
No. of Rows: 1000
No. of Columns: 12
```

```
In [25]: df.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
```

```
In [26]: df.isnull().values.any()
```

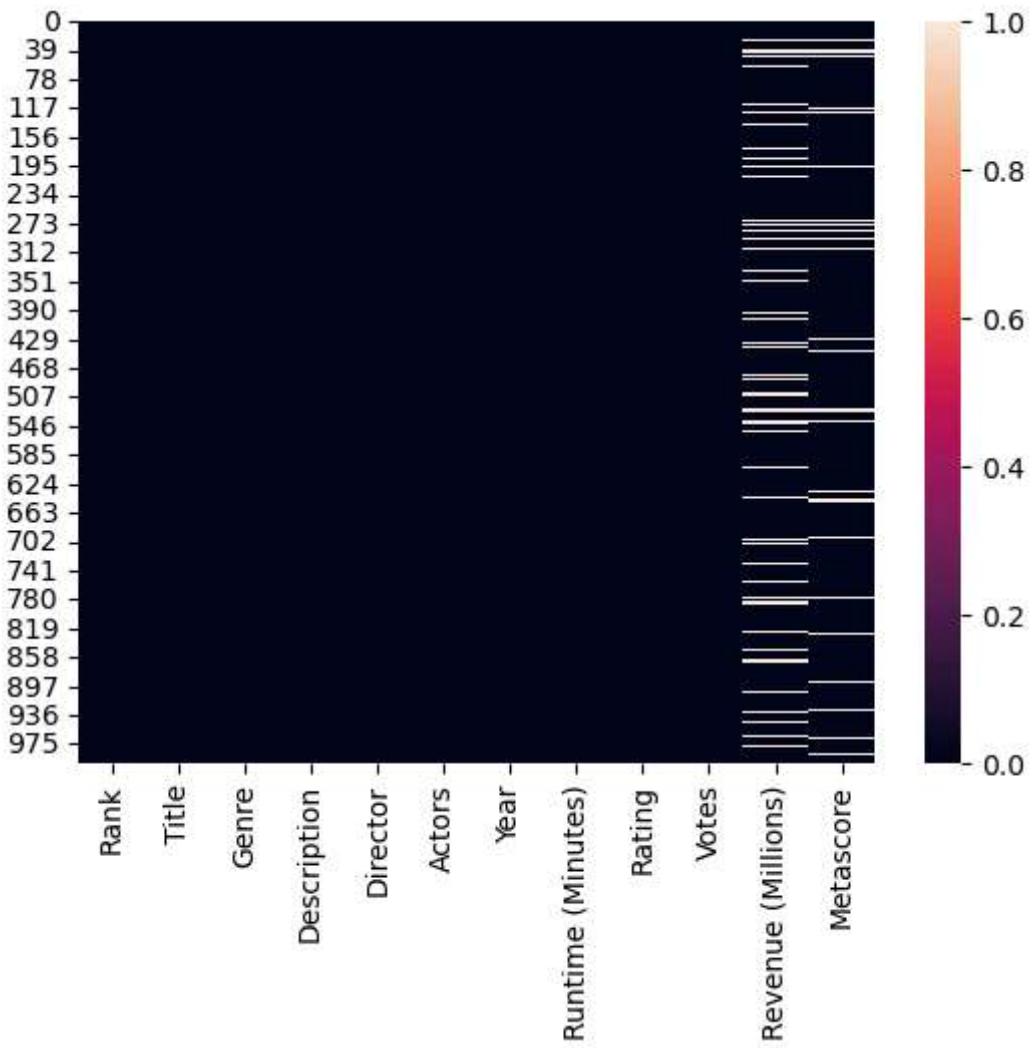
```
Out[26]: True
```

```
In [27]: df.isnull().sum()
```

```
Out[27]: 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 [28]: sns.heatmap(df.isnull())
```

```
Out[28]: <AxesSubplot:>
```



```
In [29]: per_missing_values = df.isnull().sum()*100/len(df)
```

```
In [30]: per_missing_values
```

```
Out[30]:
```

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

```
In [31]: df.dropna()
```

Out[31]:

	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
...
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,...	2008
999	1000	Nine Lives	Comedy,Family,Fantasy	A stuffy businessman	Barry Sonnenfeld	Kevin Spacey, Jennifer Garner, Robbie Amell,Ch...	2016

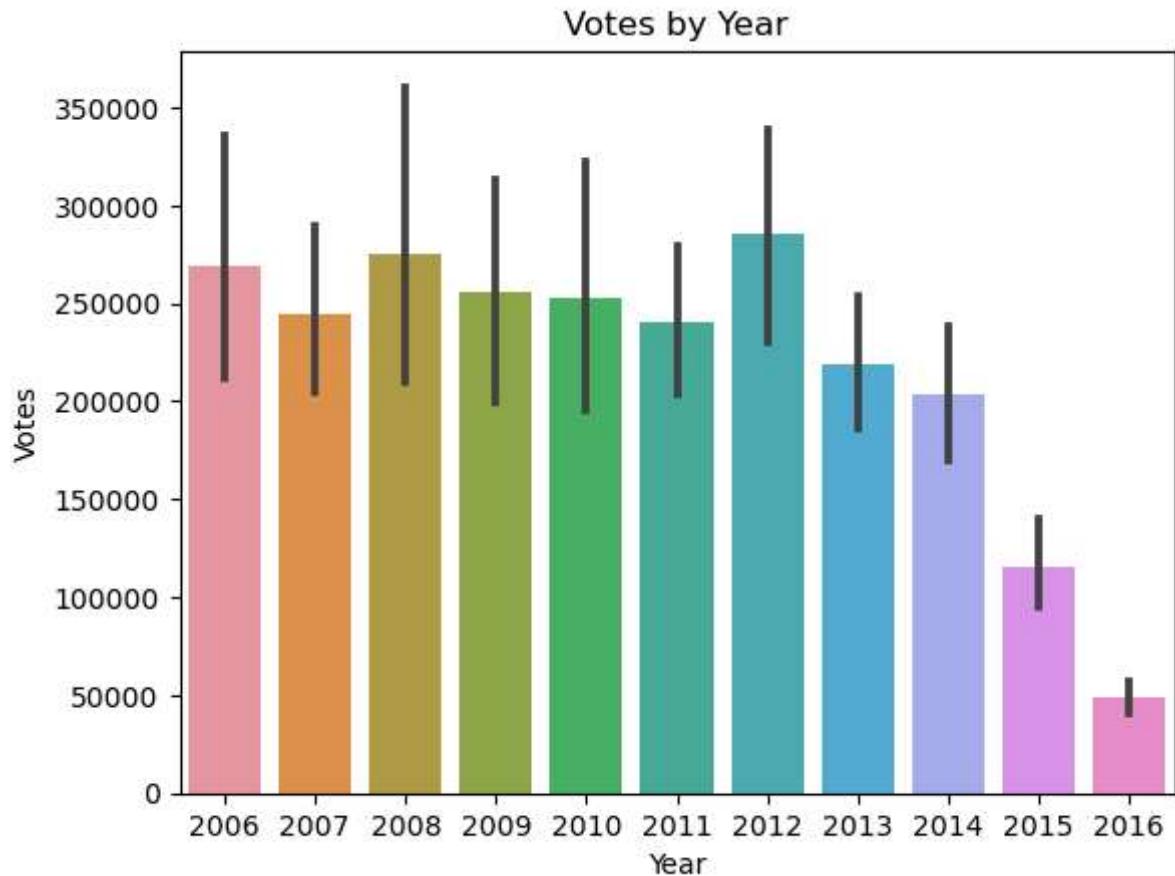
Rank	Title	Genre	Description	Director	Actors	Year	R (M)
			finds himself trapped ins...				
828 rows x 12 columns							
In [32]: df.duplicated().any()							
Out[32]: False							
In [33]: df.describe(include = 'all')							
Out[33]:							
	Rank	Title	Genre	Description	Director	Actors	Year
count	1000.000000	1000		1000	1000	1000	1000.000000
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...	Nan
freq	Nan	2		50	1	8	2
mean	500.500000	Nan		Nan	Nan	Nan	2012.783000
std	288.819436	Nan		Nan	Nan	Nan	3.205962
min	1.000000	Nan		Nan	Nan	Nan	2006.000000
25%	250.750000	Nan		Nan	Nan	Nan	2010.000000
50%	500.500000	Nan		Nan	Nan	Nan	2014.000000
75%	750.250000	Nan		Nan	Nan	Nan	2016.000000
max	1000.000000	Nan		Nan	Nan	Nan	2016.000000

In [34]:	df.columns
Out[34]:	Index(['Rank', 'Title', 'Genre', 'Description', 'Director', 'Actors', 'Year', 'Runtime (Minutes)', 'Rating', 'Votes', 'Revenue (Millions)', 'Metascore'], dtype='object')
In [36]: df[df['Runtime (Minutes)'] >= 180]['Title']	
Out[36]:	
	82 The Wolf of Wall Street
	88 The Hateful Eight
	311 La vie d'Adèle
	828 Grindhouse
	965 Inland Empire
	Name: Title, dtype: object

```
In [37]: df.groupby('Year')[ 'Votes'].mean().sort_values(ascending=False)
```

```
Out[37]: 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
```

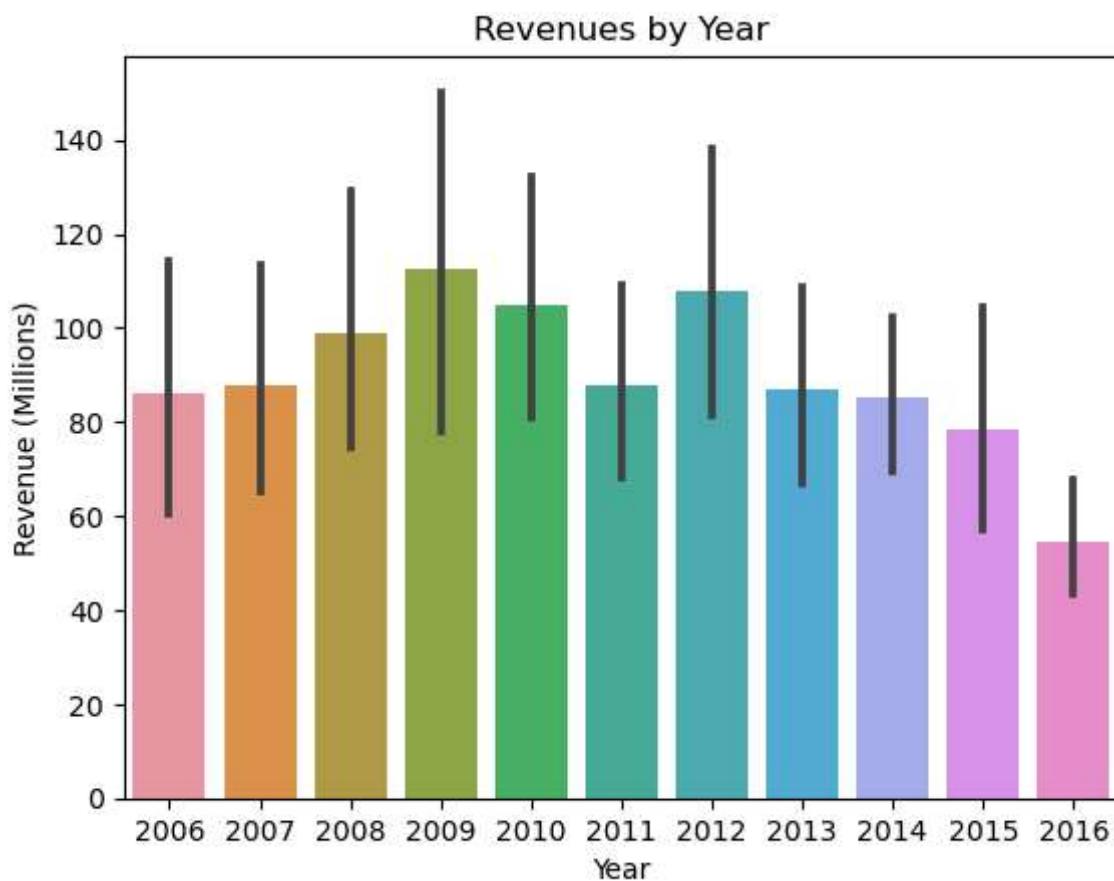
```
In [40]: sns.barplot(x='Year', y='Votes', data=df)
plt.title('Votes by Year')
plt.show()
```



```
In [41]: df.groupby('Year')[ 'Revenue (Millions)'].mean().sort_values(ascending=False)
```

```
Out[41]: 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 [42]: sns.barplot(x='Year', y='Revenue (Millions)', data=df)
plt.title('Revenues by Year')
plt.show()
```



```
In [43]: df.groupby('Director')['Rating'].mean().sort_values(ascending=False)
```

```
Out[43]: 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
```

```
In [44]: top_ten = df.nlargest(10, 'Runtime (Minutes)')[['Title','Runtime (Minutes)']].set_index('Title')
```

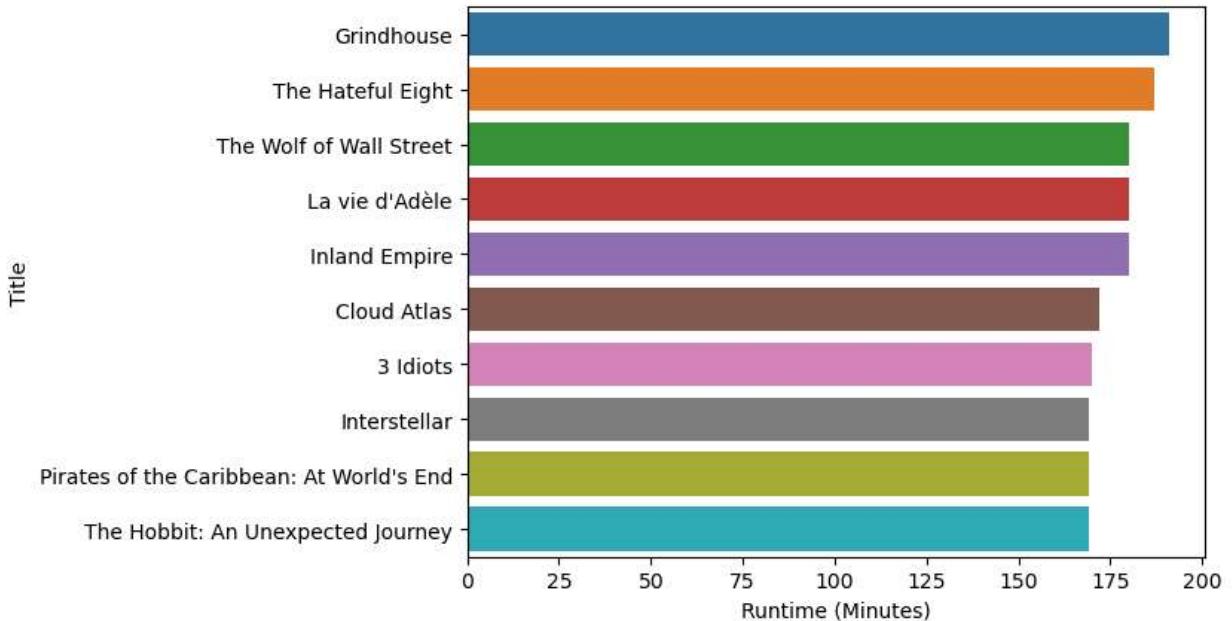
```
In [45]: top_ten
```

```
Out[45]:
```

Runtime (Minutes)**Title**

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



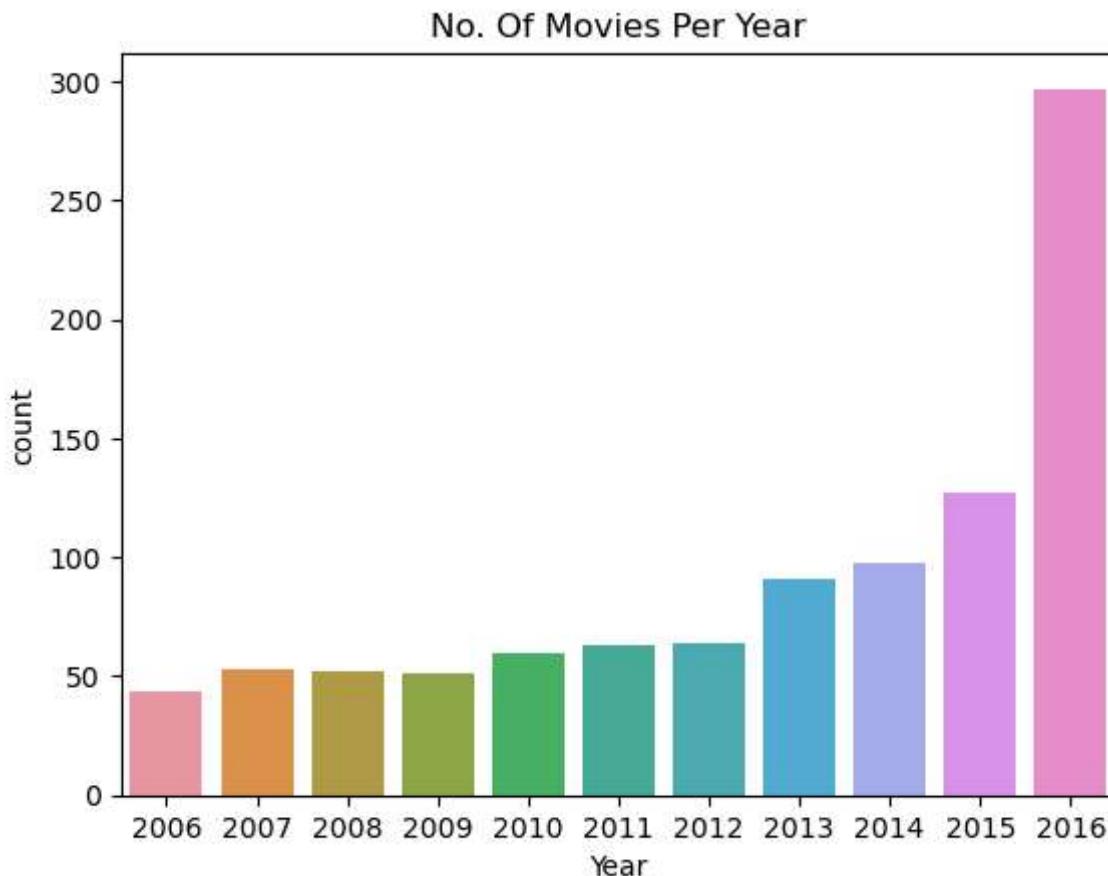
```
In [48]: df.groupby("Year")['Title'].count().sort_values(ascending=False)
```

```
Out[48]: Year
2016    297
2015    127
2014     98
2013     91
2012     64
2011     63
2010     60
2007     53
2008     52
2009     51
2006     44
Name: Title, dtype: int64
```

```
In [49]: df['Year'].value_counts()
```

```
Out[49]: Year
2016    297
2015    127
2014     98
2013     91
2012     64
2011     63
2010     60
2007     53
2008     52
2009     51
2006     44
Name: Year, dtype: int64
```

```
In [50]: sns.countplot(x='Year', data=df)
plt.title('No. Of Movies Per Year')
plt.show()
```



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

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

```
In [53]: top10 = df.nlargest(10, 'Rating')[['Title', 'Director', 'Rating']].set_index('Title')
```

```
In [54]: top10
```

```
Out[54]:
```

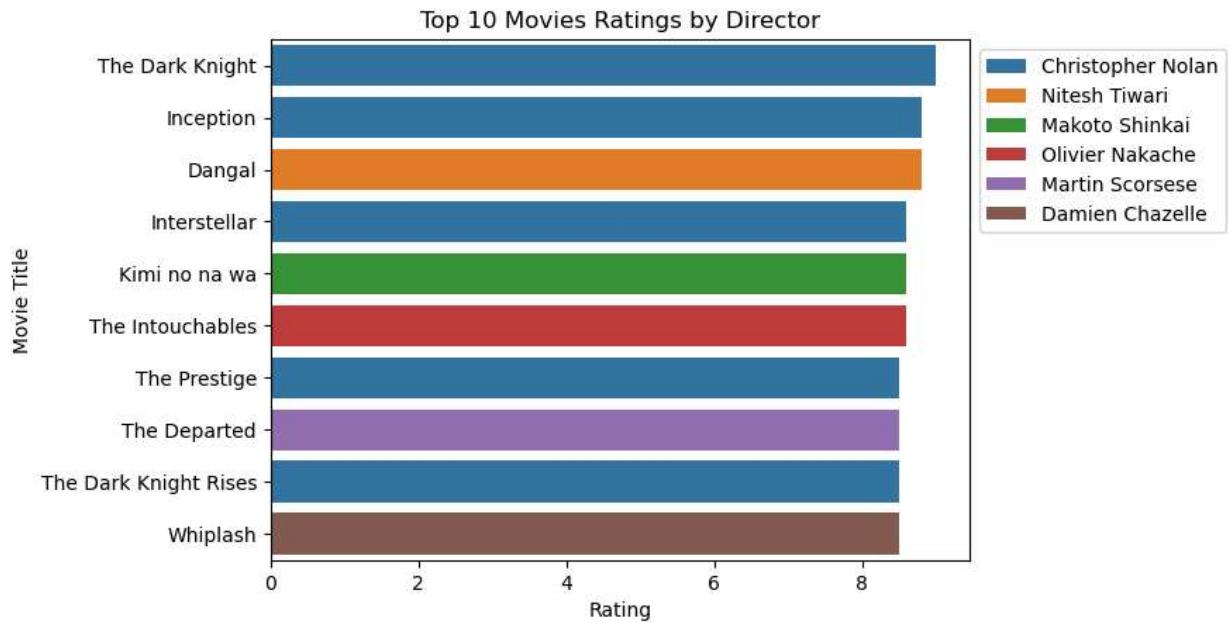
Title Director Rating

Title		
The Dark Knight	Christopher Nolan	9.0
Inception	Christopher Nolan	8.8
Dangal	Nitesh Tiwari	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

```
In [56]: import seaborn as sns
import matplotlib.pyplot as plt

# Assuming top10 is a DataFrame containing the top 10 movies and their ratings and dir
# Ensure 'Rating' and 'Director' columns exist in the DataFrame

# Plot the data
sns.barplot(x='Rating', y=top10.index, data=top10, hue='Director', dodge=False)
plt.legend(bbox_to_anchor=(1, 1), loc=2)
plt.title('Top 10 Movies Ratings by Director')
plt.xlabel('Rating')
plt.ylabel('Movie Title')
plt.show()
```



```
In [57]: top10 = df.nlargest(10, 'Revenue (Millions)')[['Title', 'Revenue (Millions)']].set_index('Title')
```

```
In [58]: top10
```

Out[58]:

Revenue (Millions)

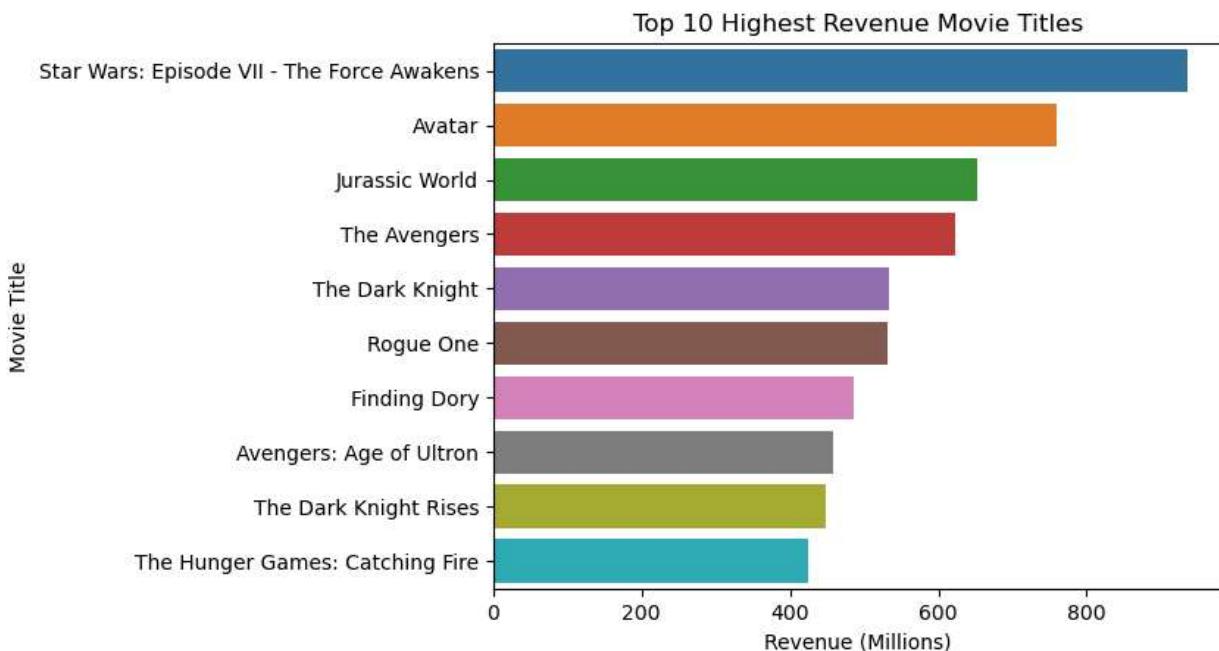
Title	Revenue (Millions)
Star Wars: Episode VII - The Force Awakens	936.63
Avatar	760.51
Jurassic World	652.18
The Avengers	623.28
The Dark Knight	533.32
Rogue One	532.17
Finding Dory	486.29
Avengers: Age of Ultron	458.99
The Dark Knight Rises	448.13
The Hunger Games: Catching Fire	424.65

In [60]:

```
import seaborn as sns
import matplotlib.pyplot as plt

# Assuming top10 is a DataFrame containing the top 10 movies and their revenue
# Ensure 'Revenue (Millions)' column exists in the DataFrame

# Plot the data
sns.barplot(x='Revenue (Millions)', y=top10.index, data=top10)
plt.title('Top 10 Highest Revenue Movie Titles')
plt.xlabel('Revenue (Millions)')
plt.ylabel('Movie Title')
plt.show()
```

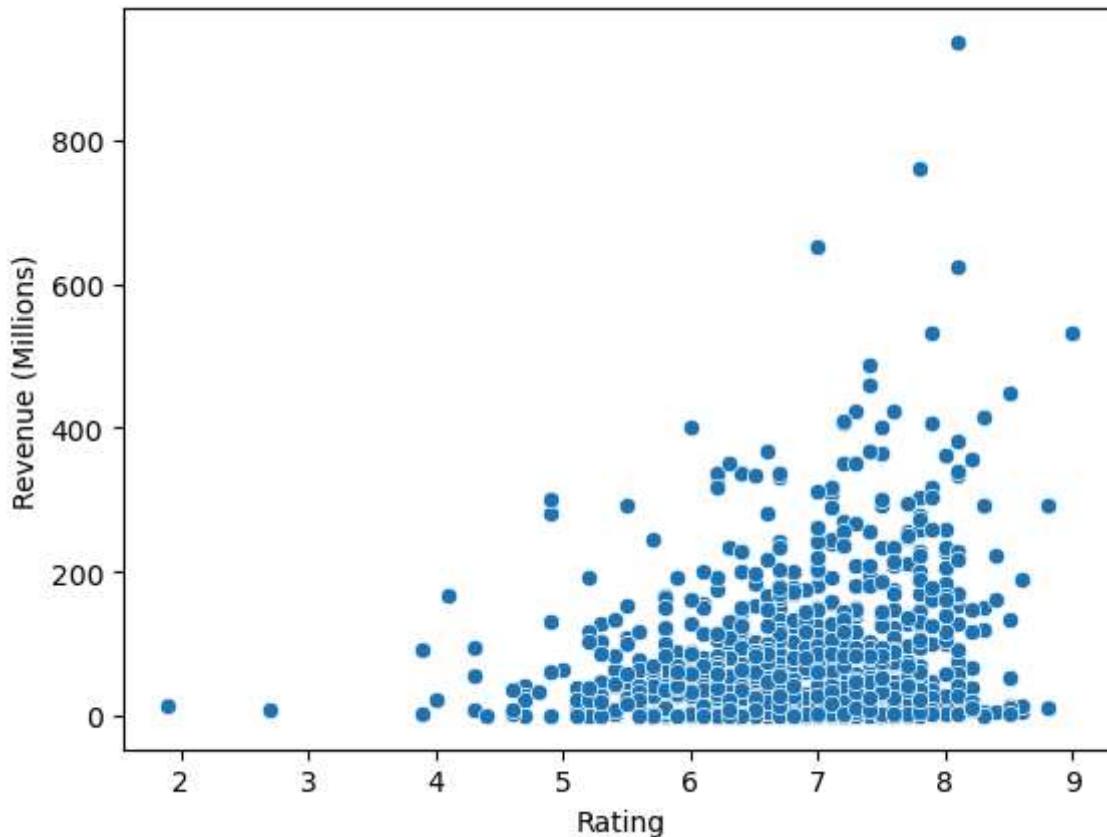


In [61]: df.groupby('Year')[['Rating']].mean()

```
Out[61]: Year
2006    7.125000
2007    7.133962
2008    6.784615
2009    6.960784
2010    6.826667
2011    6.838095
2012    6.925000
2013    6.812088
2014    6.837755
2015    6.602362
2016    6.436700
Name: Rating, dtype: float64
```

```
In [62]: sns.scatterplot(x='Rating', y='Revenue (Millions)', data = df)
```

```
Out[62]: <AxesSubplot:xlabel='Rating', ylabel='Revenue (Millions)'>
```



```
In [63]: def rating(rating):
    if rating >= 7.0:
        return 'Excellent'
    elif rating >= 6.0:
        return 'Good'
    else:
        return 'Average'
```

```
In [64]: df['Rating_Cateory'] = df['Rating'].apply(rating)
```

```
In [65]: df.head()
```

Out[65]:

	Rank	Title	Genre	Description	Director	Actors	Year	Ru (Mir)
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	

In [66]: `len(df[df['Genre'].str.contains('action', case=False)])`

Out[66]: 303

In [68]: `list1 = []
for value in df['Genre']:
 list1.append(value.split(','))`In [69]: `list1`

```
Out[69]: [[['Action', 'Adventure', 'Sci-Fi'],
  ['Adventure', 'Mystery', 'Sci-Fi'],
  ['Horror', 'Thriller'],
  ['Animation', 'Comedy', 'Family'],
  ['Action', 'Adventure', 'Fantasy'],
  ['Action', 'Adventure', 'Fantasy'],
  ['Comedy', 'Drama', 'Music'],
  ['Comedy'],
  ['Action', 'Adventure', 'Biography'],
  ['Adventure', 'Drama', 'Romance'],
  ['Adventure', 'Family', 'Fantasy'],
  ['Biography', 'Drama', 'History'],
  ['Action', 'Adventure', 'Sci-Fi'],
  ['Animation', 'Adventure', 'Comedy'],
  ['Action', 'Comedy', 'Drama'],
  ['Animation', 'Adventure', 'Comedy'],
  ['Biography', 'Drama', 'History'],
  ['Action', 'Thriller'],
  ['Biography', 'Drama'],
  ['Drama', 'Mystery', 'Sci-Fi'],
  ['Adventure', 'Drama', 'Thriller'],
  ['Drama'],
  ['Crime', 'Drama', 'Horror'],
  ['Animation', 'Adventure', 'Comedy'],
  ['Action', 'Adventure', 'Sci-Fi'],
  ['Comedy'],
  ['Action', 'Adventure', 'Drama'],
  ['Horror', 'Thriller'],
  ['Comedy'],
  ['Action', 'Adventure', 'Drama'],
  ['Comedy'],
  ['Drama', 'Thriller'],
  ['Action', 'Adventure', 'Sci-Fi'],
  ['Action', 'Adventure', 'Comedy'],
  ['Action', 'Horror', 'Sci-Fi'],
  ['Action', 'Adventure', 'Sci-Fi'],
  ['Adventure', 'Drama', 'Sci-Fi'],
  ['Action', 'Adventure', 'Fantasy'],
  ['Action', 'Adventure', 'Western'],
  ['Comedy', 'Drama'],
  ['Animation', 'Adventure', 'Comedy'],
  ['Drama'],
  ['Horror'],
  ['Biography', 'Drama', 'History'],
  ['Drama'],
  ['Action', 'Adventure', 'Fantasy'],
  ['Drama', 'Thriller'],
  ['Adventure', 'Drama', 'Fantasy'],
  ['Action', 'Adventure', 'Sci-Fi'],
  ['Drama'],
  ['Action', 'Adventure', 'Fantasy'],
  ['Action', 'Adventure', 'Fantasy'],
  ['Comedy', 'Drama'],
  ['Action', 'Crime', 'Thriller'],
  ['Action', 'Crime', 'Drama'],
  ['Adventure', 'Drama', 'History'],
  ['Crime', 'Horror', 'Thriller'],
  ['Drama', 'Romance'],
  ['Comedy', 'Drama', 'Romance'],
  ['Biography', 'Drama']]
```

```
[ 'Action', 'Adventure', 'Sci-Fi'],
[ 'Horror', 'Mystery', 'Thriller'],
[ 'Crime', 'Drama', 'Mystery'],
[ 'Drama', 'Romance', 'Thriller'],
[ 'Drama', 'Mystery', 'Sci-Fi'],
[ 'Action', 'Adventure', 'Comedy'],
[ 'Drama', 'History', 'Thriller'],
[ 'Action', 'Adventure', 'Sci-Fi'],
[ 'Drama'],
[ 'Action', 'Drama', 'Thriller'],
[ 'Drama', 'History'],
[ 'Action', 'Drama', 'Romance'],
[ 'Drama', 'Fantasy'],
[ 'Drama', 'Romance'],
[ 'Animation', 'Adventure', 'Comedy'],
[ 'Action', 'Adventure', 'Fantasy'],
[ 'Action', 'Sci-Fi'],
[ 'Adventure', 'Drama', 'War'],
[ 'Action', 'Adventure', 'Fantasy'],
[ 'Action', 'Comedy', 'Fantasy'],
[ 'Action', 'Adventure', 'Sci-Fi'],
[ 'Comedy', 'Drama'],
[ 'Biography', 'Comedy', 'Crime'],
[ 'Crime', 'Drama', 'Mystery'],
[ 'Action', 'Crime', 'Thriller'],
[ 'Action', 'Adventure', 'Sci-Fi'],
[ 'Crime', 'Drama'],
[ 'Action', 'Adventure', 'Fantasy'],
[ 'Crime', 'Drama', 'Mystery'],
[ 'Action', 'Crime', 'Drama'],
[ 'Crime', 'Drama', 'Mystery'],
[ 'Action', 'Adventure', 'Fantasy'],
[ 'Drama'],
[ 'Comedy', 'Crime', 'Drama'],
[ 'Action', 'Adventure', 'Sci-Fi'],
[ 'Action', 'Comedy', 'Crime'],
[ 'Animation', 'Drama', 'Fantasy'],
[ 'Horror', 'Mystery', 'Sci-Fi'],
[ 'Drama', 'Mystery', 'Thriller'],
[ 'Crime', 'Drama', 'Thriller'],
[ 'Biography', 'Crime', 'Drama'],
[ 'Action', 'Adventure', 'Fantasy'],
[ 'Adventure', 'Drama', 'Sci-Fi'],
[ 'Crime', 'Mystery', 'Thriller'],
[ 'Action', 'Adventure', 'Comedy'],
[ 'Crime', 'Drama', 'Thriller'],
[ 'Comedy'],
[ 'Action', 'Adventure', 'Drama'],
[ 'Drama'],
[ 'Drama', 'Mystery', 'Sci-Fi'],
[ 'Action', 'Horror', 'Thriller'],
[ 'Biography', 'Drama', 'History'],
[ 'Romance', 'Sci-Fi'],
[ 'Action', 'Fantasy', 'War'],
[ 'Adventure', 'Drama', 'Fantasy'],
[ 'Comedy'],
[ 'Horror', 'Thriller'],
[ 'Action', 'Biography', 'Drama'],
[ 'Drama', 'Horror', 'Mystery'],
[ 'Animation', 'Adventure', 'Comedy'],
```

```
[ 'Adventure', 'Drama', 'Family'],
[ 'Adventure', 'Mystery', 'Sci-Fi'],
[ 'Adventure', 'Comedy', 'Romance'],
[ 'Action'],
[ 'Action', 'Thriller'],
[ 'Adventure', 'Drama', 'Family'],
[ 'Action', 'Adventure', 'Sci-Fi'],
[ 'Adventure', 'Crime', 'Mystery'],
[ 'Comedy', 'Family', 'Musical'],
[ 'Adventure', 'Drama', 'Thriller'],
[ 'Drama'],
[ 'Adventure', 'Comedy', 'Drama'],
[ 'Drama', 'Horror', 'Thriller'],
[ 'Drama', 'Music'],
[ 'Action', 'Crime', 'Thriller'],
[ 'Crime', 'Drama', 'Thriller'],
[ 'Crime', 'Drama', 'Thriller'],
[ 'Drama', 'Romance'],
[ 'Mystery', 'Thriller'],
[ 'Mystery', 'Thriller', 'Western'],
[ 'Action', 'Adventure', 'Sci-Fi'],
[ 'Comedy', 'Family'],
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```

```
In [70]: one_d = []
for item in list1:
    for item1 in item:
        one_d.append(item1)
```

```
In [71]: uni_list = []
for item in one_d:
    if item not in uni_list:
        uni_list.append(item)
```

```
In [72]: uni_list
```

```
Out[72]: ['Action',
 'Adventure',
 'Sci-Fi',
 'Mystery',
 'Horror',
 'Thriller',
 'Animation',
 'Comedy',
 'Family',
 'Fantasy',
 'Drama',
 'Music',
 'Biography',
 'Romance',
 'History',
 'Crime',
 'Western',
 'War',
 'Musical',
 'Sport']
```

```
In [73]: one_d = []
for item in list1:
    for item1 in item:
        one_d.append(item1)
```

```
In [74]: from collections import Counter
```

```
In [75]: Counter(one_d)
```

```
Out[75]: Counter({'Action': 303,
 'Adventure': 259,
 'Sci-Fi': 120,
 'Mystery': 106,
 'Horror': 119,
 'Thriller': 195,
 'Animation': 49,
 'Comedy': 279,
 'Family': 51,
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 'Drama': 513,
 'Music': 16,
 'Biography': 81,
 'Romance': 141,
 'History': 29,
 'Crime': 150,
 'Western': 7,
 'War': 13,
 'Musical': 5,
 'Sport': 18})
```

```
In [ ]:
```