IMDB Movie Data Analysis In Python

```
In [ ]:
        ###
In [1]:
        #importing Librarry
In [1]: import pandas as pd
        import numpy as np
        import seaborn as sns
        import matplotlib.pyplot as plt
        print(" Above library is loaded")
         Above library is loaded
In [3]: #load the IMDB-Movie-Data.csv Dataset
In [2]: #Data_set/IMDB-Movie-Data.csv
        imdb_df = pd.read_csv("D:\Vivek_Stuff\Learning Stuff\Python_Work\Data_set\I
        MDB-Movie-Data.csv")
        print("IMDB Dataset ready to use !!")
        IMDB Dataset ready to use !!
```

1. Show the Top 10 Rows data

n [3]: imdb_df.head(10) # showing the first 10 rows of data # by default head() returns the 5 rows of data

Out[3]:

	Rank	Title	Genre	Description	Director	Actors	,
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	
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	1
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	1
3	4	Sing	Animation,Comedy,Family	In a city of humanoid animals, a hustling thea	Christophe Lourdelet	Matthew McConaughey,Reese Witherspoon, Seth Ma	2
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	1
5	6	The Great Wall	Action,Adventure,Fantasy	European mercenaries searching for black powde	Yimou Zhang	Matt Damon, Tian Jing, Willem Dafoe, Andy Lau	2
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	1
7	8	Mindhorn	Comedy	A has-been actor best known for playing the ti	Sean Foley	Essie Davis, Andrea Riseborough, Julian Barrat	1
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	1
9	10	Passengers	Adventure,Drama,Romance	A spacecraft traveling to a distant colony pla	Morten Tyldum	Jennifer Lawrence, Chris Pratt, Michael Sheen,	1
4							

2. Show the last 10 Rows data¶

In [4]: imdb_df.tail(10) # showing the first 10 rows of dataset
by default tail() returns the last 5 rows of data

Out[4]:

	Rank	Title	Genre	Description	Director	Actors	Yea
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	200
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	200
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	201
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	201
994	995	Project X	Comedy	3 high school seniors throw a birthday party t	Nima Nourizadeh	Thomas Mann, Oliver Cooper, Jonathan Daniel Br	201
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
1							•

3 . Show Total No. of Rows & Column of data set

```
In [7]: imdb_df.shape
# shape is an attribute of dataframe, Its not a method
#shape retruen the Size of data set , No. of Rows & No . Of Column of DataF
rame

Out[7]: (1000, 12)

In [8]: print(' No of rows : ', imdb_df.shape[0])
print(' No of column : ', imdb_df.shape[1])

No of rows : 1000
No of column : 12
```

So you can see that, Dataset has 1000 rows and 12 Column

4. Show complete data information,

```
In [9]: imdb_df.info()
        #info() retruns the complete info of your dataset , Column Name and its dat
       a type , Null Inforamtion, Total rows and many more...
       <class 'pandas.core.frame.DataFrame'>
       RangeIndex: 1000 entries, 0 to 999
       Data columns (total 12 columns):
                             Non-Null Count Dtype
            Column
                               -----
            Rank
                             1000 non-null int64
        0
            Title
        1
                             1000 non-null object
        2 Genre
                             1000 non-null object
                             1000 non-null object
1000 non-null object
            Description
        3
        4
            Director
        5
                             1000 non-null object
            Actors
        6
            Year
                             1000 non-null int64
            Runtime (Minutes) 1000 non-null
        7
                                              int64
        8
            Rating
                               1000 non-null
                                             float64
            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. Show the Missing data value if any in your dataset

```
In [10]: imdb_df.isnull()
```

Out[10]:												
		Rank	Title	Genre	Description	Director	Actors	Year	Runtime (Minutes)	Rating	Votes	Reve (Millio
	0	False	False	False	False	False	False	False	False	False	False	F
	1	False	False	False	False	False	False	False	False	False	False	F
	2	False	False	False	False	False	False	False	False	False	False	F
	3	False	False	False	False	False	False	False	False	False	False	F
	4	False	False	False	False	False	False	False	False	False	False	F
	995	False	False	False	False	False	False	False	False	False	False	
	996	False	False	False	False	False	False	False	False	False	False	F
	997	False	False	False	False	False	False	False	False	False	False	F
	998	False	False	False	False	False	False	False	False	False	False	
	999	False	False	False	False	False	False	False	False	False	False	F
	1000	rows	< 12 co	lumns					_			>
In [11]:		belo).sum(can se	() ee that Rev	enue & N	Metasco	re co	Lumn cont	ains t	he nul	L va
Out[11]:	Rank				0							
	Titl				0							
	Genr	e riptio	nn.		0 0							
	Dire	•	ווע		0							
	Acto				0							
	Year				0							
		ime (N	Minute	s)	0							
	Rati Vote				0 0							
		nue (N	Millio	ns)	128							
		score			64							
		e: int	t64									

6. Drop all the Null containing rows

In [12]: imdb_df.dropna(axis=0)

t, But we dont suggest to use .

dropna() is used to drop missing value if any
we are apassing the axis = 0 , Means We are wissing to drop rows , So Axi
s =0 meanns Rows, Axis =1 means Column
you can use implace=True to delete the rows permanently from your datase

Out[12]:

		Rank	Title	Genre	Description	Director	Actors	
	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	
	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	
	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	
	3	4	Sing	Animation,Comedy,Family	In a city of humanoid animals, a hustling thea	Christophe Lourdelet	Matthew McConaughey,Reese Witherspoon, Seth Ma	
	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	
	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	
	994	995	Project X	Comedy	3 high school seniors throw a birthday party t	Nima Nourizadeh	Thomas Mann, Oliver Cooper, Jonathan Daniel Br	
	996	997	Hostel: Part II	Horror	Three American college students studying abroa	Eli Roth	Lauren German, Heather Matarazzo, Bijou Philli	
	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,	
	999	1000	Nine Lives	Comedy,Family,Fantasy	A stuffy businessman finds himself trapped ins	Barry Sonnenfeld	Kevin Spacey, Jennifer Garner, Robbie Amell,Ch	
	838 rows × 12 columns							
	4						>	
In [13]:	imdb	_df.sl	nape					
0 1 [42]	4400							

Out[13]: (1000, 12)

7. Check Duplicate Data

```
In [14]: dup_imdb_df = imdb_df.duplicated().any()
    # dup_imdb_df is a variable, we created here
    # duplicated() returns the duplicate value from your dataset
    # imdb_df.duplicated().any() will return the true/false if any duploicate v
    alue found in dataset

Out[14]: False
```

so you can see thet, Our dataset has no any duplicate value

8. Get overall Statistics of your dataset

```
In [15]: imdb_df.describe()
# describe() returns the basic statistics information on your numerical Co
lumn data.
```

Out[15]:

	Rank	Year	Runtime (Minutes)	Rating	Votes	Revenue (Millions)	Metas
count	1000.000000	1000.000000	1000.000000	1000.000000	1.000000e+03	872.000000	936.000
mean	500.500000	2012.783000	113.172000	6.723200	1.698083e+05	82.956376	58.98
std	288.819436	3.205962	18.810908	0.945429	1.887626e+05	103.253540	17.19 ₄
min	1.000000	2006.000000	66.000000	1.900000	6.100000e+01	0.000000	11.000
25%	250.750000	2010.000000	100.000000	6.200000	3.630900e+04	13.270000	47.000
50%	500.500000	2014.000000	111.000000	6.800000	1.107990e+05	47.985000	59.500
75%	750.250000	2016.000000	123.000000	7.400000	2.399098e+05	113.715000	72.000
max	1000.000000	2016.000000	191.000000	9.000000	1.791916e+06	936.630000	100.000
4							

9. Show the Movie Title having Runtime > 180 Minutes

```
In [17]:
         imdb_df['Runtime (Minutes)'] >= 180
         # So here we are quering the equation .
Out[17]: 0
                 False
                 False
                 False
                 False
                 False
         995
                 False
         996
                 False
         997
                 False
         998
                 False
         999
                 False
         Name: Runtime (Minutes), Length: 1000, dtype: bool
```

Showing the data whos runtime is >= 180 Minute

```
In [18]: ## Showing the data whos runtime is >= 180 Minute
imdb_df[imdb_df['Runtime (Minutes)'] >= 180 ]
```

Out[18]:

	Rank	Title	Genre	Description	Director	Actors	Year	(
82	83	The Wolf of Wall Street	Biography,Comedy,Crime	Based on the true story of Jordan Belfort, fro	Martin Scorsese	Leonardo DiCaprio, Jonah Hill, Margot Robbie,M	2013	-
88	89	The Hateful Eight	Crime,Drama,Mystery	In the dead of a Wyoming winter, a bounty hunt	Quentin Tarantino	Samuel L. Jackson, Kurt Russell, Jennifer Jaso	2015	
311	312	La vie d'Adèle	Drama,Romance	Adèle's life is changed when she meets Emma, a	Abdellatif Kechiche	Léa Seydoux, Adèle Exarchopoulos, Salim Kechio	2013	
828	829	Grindhouse	Action,Horror,Thriller	Quentin Tarantino and Robert Rodriguez's homag	Robert Rodriguez	Kurt Russell, Rose McGowan, Danny Trejo, Zoë Bell	2007	
965	966	Inland Empire	Drama,Mystery,Thriller	As an actress starts to adopt the persona of h	David Lynch	Laura Dern, Jeremy Irons, Justin Theroux, Karo	2006	
4							•	

Showing the Title whos runtime is >= 180 Minute

10. Display the Years wise Highest Average Voting

```
In [20]:
         imdb_df.groupby('Year')['Votes'].mean()
Out[20]: Year
         2006
                  269289.954545
         2007
                  244331.037736
         2008
                  275505.384615
         2009
                  255780.647059
         2010
                  252782.316667
         2011
                  240790.301587
         2012
                  285226.093750
         2013
                  219049.648352
         2014
                  203930.224490
         2015
                  115726.220472
         2016
                  48591.754209
         Name: Votes, dtype: float64
```

So above we shown the year wise Mean() / avgerage Voting

let's sort them By Year in descending Highest Voting

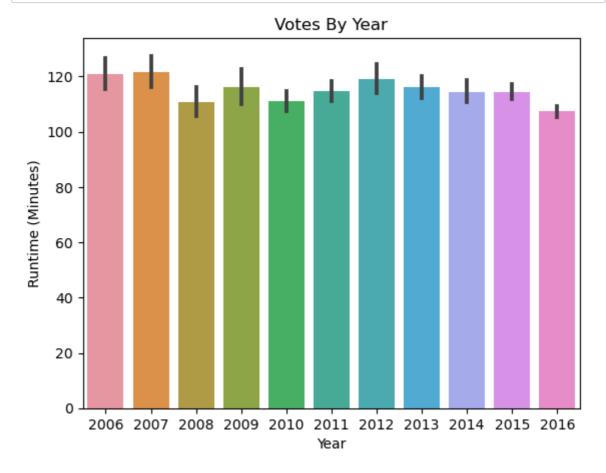
```
imdb_df.groupby('Year')['Votes'].mean().sort_values(ascending = False)
In [21]:
Out[21]: Year
         2012
                  285226.093750
         2008
                  275505.384615
         2006
                  269289.954545
                  255780.647059
         2009
         2010
                  252782.316667
         2007
                  244331.037736
         2011
                  240790.301587
         2013
                  219049.648352
         2014
                  203930.224490
         2015
                  115726.220472
                   48591.754209
         2016
         Name: Votes, dtype: float64
```

So you can see thet Highest voting By Year

Show the graph: Year wise Voting

```
In [22]: sns.barplot(x='Year', y = 'Runtime (Minutes)', data= imdb_df)
    plt.title('Votes By Year')
# sns is an alias of Seaborn , and we are wusing barplot() to display the g
    raph in Bar

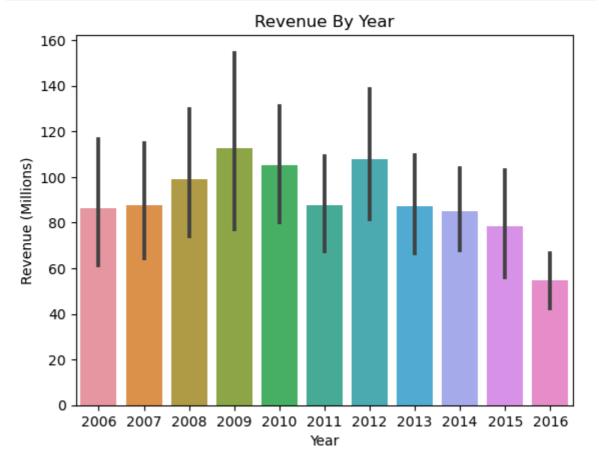
plt.show()
```



11 . Display highest Average Revenue by Year

```
In [23]:
          imdb_df.groupby('Year')['Revenue (Millions)'].mean().sort_values(ascending
          = False)
Out[23]: Year
          2009
                  112.601277
          2012
                  107.973281
          2010
                  105.081579
          2008
                   99.082745
                   87.882245
          2007
          2011
                   87.612258
          2013
                   87.121818
          2006
                   86.296667
          2014
                   85.078723
          2015
                   78.355044
          2016
                   54.690976
          Name: Revenue (Millions), dtype: float64
```

```
In [24]: sns.barplot(x='Year', y = 'Revenue (Millions)', data= imdb_df)
plt.title('Revenue By Year')
# sns is an alias of Seaborn , and we are wusing barplot() to display the g
raph in Bar
plt.show()
```



12. Find the Average rating for Reach Ditector

```
In [25]:
         imdb_df.columns
         Index(['Rank', 'Title', 'Genre', 'Description', 'Director', 'Actors', 'Yea
Out[25]:
                 'Runtime (Minutes)', 'Rating', 'Votes', 'Revenue (Millions)',
                 'Metascore'],
               dtype='object')
         imdb_df.groupby('Director')['Rating'].mean().sort_values(ascending = False)
In [26]:
Out[26]: 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 Tengthy MMovie Title & Runtime

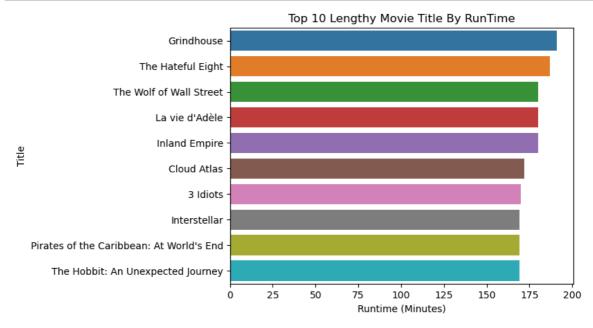
```
In [27]: top10 = imdb_df.nlargest(10, 'Runtime (Minutes)')[['Title','Runtime (Minute
s)']].set_index('Title')
top10
```

Out[27]:

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

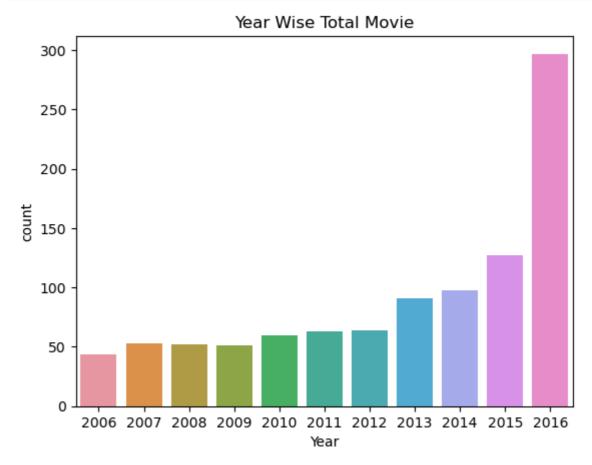
```
In [28]: sns.barplot(x='Runtime (Minutes)' , y =top10.index , data= top10)
    plt.title("Top 10 Lengthy Movie Title By RunTime")
    plt.show()
```



14. Display Total Movie Count By Year

```
In [29]:
          imdb_df['Year'].value_counts()
          # Value_counts() as works as CountIf in Excel, It count the Numericle value
          only
Out[29]: Year
          2016
                  297
          2015
                  127
                   98
          2014
          2013
                   91
          2012
                   64
          2011
                   63
          2010
                   60
          2007
                   53
          2008
                   52
          2009
                   51
          2006
                   44
          Name: count, dtype: int64
```

```
In [30]: #sns.barplot(x ='Year' , y=imdb_df['Year'].value_counts(), data= imdb_df)
sns.countplot(x ='Year' , data= imdb_df)
plt.title("Year Wise Total Movie")
plt.show()
```



15. Most Popular Movie By Highest Revenue

```
In [31]:
          imdb df['Revenue (Millions)'].max()
          # so below you can see the highest revenue
Out[31]: 936.63
In [32]:
          # Lest show the data
          imdb_df[imdb_df['Revenue (Millions)'].max()== imdb_df['Revenue (Million
          s)']]
Out[32]:
                                                                                   Runtime
                                          Genre Description Director
              Rank
                       Title
                                                                      Actors
                                                                             Year
                                                                                   (Minutes)
```

16. Display Top 10 Highest Rated Movie Titel & its Directors

```
In [33]: top10_movie_rating = imdb_df.nlargest(10, 'Rating')[['Title','Director', 'R
    ating']].set_index('Title')
    top10_movie_rating
```

Director Rating

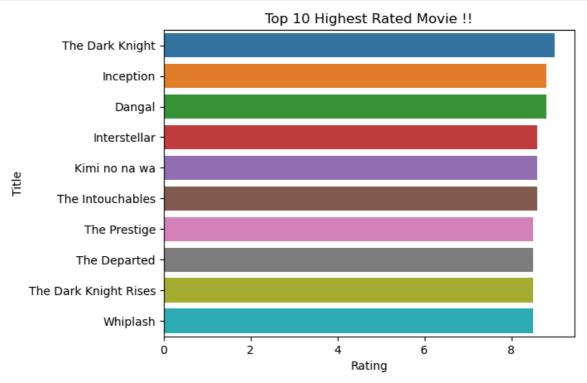
Out[33]:

	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

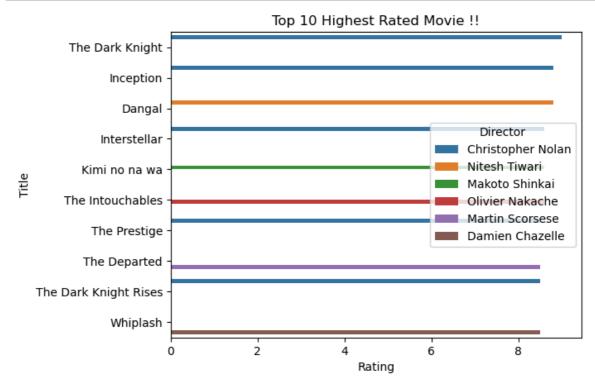
Whiplash

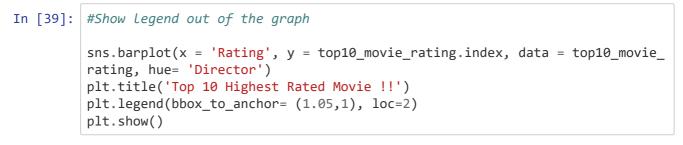
8.5

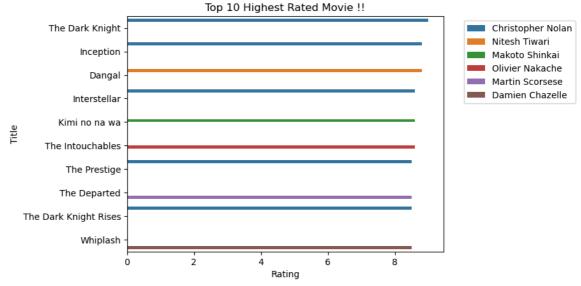
Damien Chazelle



```
In [37]: sns.barplot(x = 'Rating', y = top10_movie_rating.index, data = top10_movie_
    rating, hue= 'Director')
    plt.title('Top 10 Highest Rated Movie !!')
    plt.show()
```







17 Top 10 Highest Revenue Movie

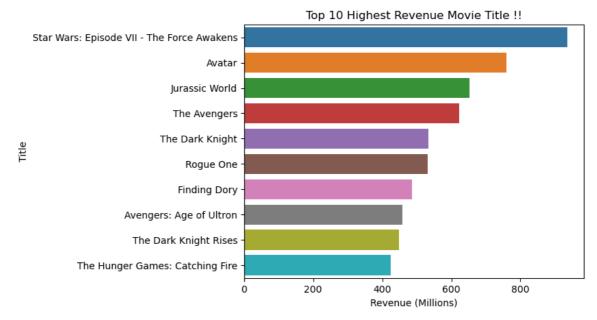
```
imdb_df.nlargest(10,'Revenue (Millions)')['Title']
In [42]:
Out[42]: 50
                Star Wars: Episode VII - The Force Awakens
         87
                                                      Avatar
         85
                                             Jurassic World
         76
                                               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
In [45]: top10_revenue =imdb_df.nlargest(10,'Revenue (Millions)')[['Title', 'Revenue
          (Millions)']].set_index('Title')
         top10_revenue
```

Out[45]:

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

```
In [46]: sns.barplot(x = 'Revenue (Millions)', y = top10_revenue.index, data = top10
    _revenue)
    plt.title('Top 10 Highest Revenue Movie Title !!')
    plt.show()
```

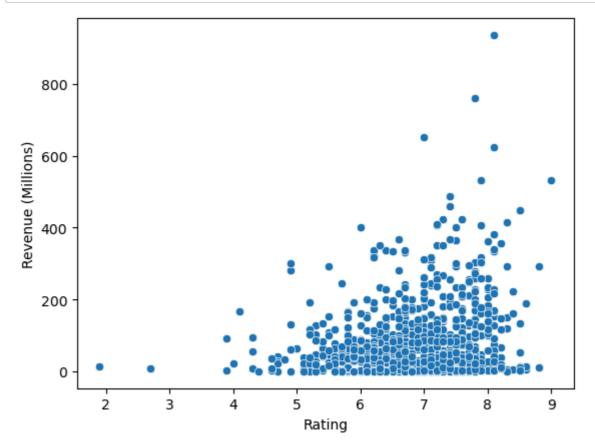


18. Show Yearly Average Movie rating

```
In [48]:
          imdb_df.groupby('Year')['Rating'].mean().sort_values(ascending = False)
Out[48]: 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
                  6.436700
          2016
          Name: Rating, dtype: float64
```

19. Does Rating affect the Revenue?

```
In [49]: sns.scatterplot(x= 'Rating', y = 'Revenue (Millions)', data = imdb_df)
plt.show()
```



20. Classify Movie based on their Rating[Excellent, Good & Average]

```
In [67]:
         imdb_df['Rating'].apply(mov_rating)
          # apply() is used to apply any function on your dataset
         # here Mov_rating() is our function we created above
Out[67]: 0
                Excellent
         1
                Excellent
                Excellent
                Excellent
         3
                      Good
         995
                      Good
         996
                  Average
         997
                      Good
         998
                  Average
         999
                  Average
         Name: Rating, Length: 1000, dtype: object
```

create New col for Rating Category

```
In [66]: imdb_df['Rating_Cate']= imdb_df['Rating'].apply(mov_rating) #
## Rating_Cate is our new column that contains the rating Category
```

show the top 5 rows

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

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٠,	~ ~		•

	Rank	Title	Genre	Description	Director	Actors	Υє
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	20
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	20
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	20
3	4	Sing	Animation,Comedy,Family	In a city of humanoid animals, a hustling thea	Christophe Lourdelet	Matthew McConaughey,Reese Witherspoon, Seth Ma	20
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	20
4							•

you can see thet Reating Category has been applied on our dataset

21. Show Total Count of Action Movies

so you can see that our Genre Column type is object, So we need to use str.contain() to count the Action Moview

In [73]: action_genre= imdb_df[imdb_df['Genre'].str.contains('Action', case=False)]
action_genre

Out[73]:

	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
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
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
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
958	959	3 Days to Kill	Action,Drama,Thriller	A dying CIA agent trying to reconnect with his	McG	Kevin Costner, Hailee Steinfeld, Connie Nielse	2014
968	969	Wrecker	Action,Horror,Thriller	Best friends Emily and Lesley go on a road tri	Micheal Bafaro	Anna Hutchison, Andrea Whitburn, Jennifer Koen	2015
969	970	The Lone Ranger	Action,Adventure,Western	Native American warrior Tonto recounts the unt	Gore Verbinski	Johnny Depp, Armie Hammer, William Fichtner,To	2013
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
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

303 rows × 13 columns

so above we displyed the total Data set that containf Action Genre Movie, Lets show to total Count Below

```
In [74]: len(action_genre)
# len() can return thr total count of rows here
Out[74]: 303
```

Note: Analysis of any data limitless, we cann't say, its end here***

IMDB Movie Dataset is available on Kaggle, You can download it form the Kaggle web.

url > https://www.kaggle.com/datasets/PromptCloudHQ/imdb-data (https://www.kaggle.com/datasets/PromptCloudHQ/imdb-data

I'd love your feedback on this project, Your feedback will make me learn more.

Thank You:)

Regards , Vivek Kr Singh

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In []:	