

# top-1000-bollywood-movies-dataset

October 16, 2024

```
[3]: #Python Project On Top 1000 Bollywood Movies And Their Box Office
import seaborn as sns
import pandas as pd
import numpy as np
from matplotlib import pyplot as plt
```

```
[4]: #To watch the first five records
act=pd.read_csv("Top 1000 Bollywood Movies and their boxoffice.csv")
print(act.iloc[100:120])
```

	Unnamed: 0	SN	Movie	Worldwide	\
100	100	101	Bol Bachchan	1750000000	
101	101	102	Raid	1540000000	
102	102	103	2 States	1730000000	
103	103	104	Grand Masti	1450000000	
104	104	105	Race 2	1620000000	
105	105	106	Singham	1510000000	
106	106	107	Shivaay	1470000000	
107	107	108	Batla House	1270000000	
108	108	109	Zero	1780000000	
109	109	110	Welcome Back	1680000000	
110	110	111	Baaghi 3	1370000000	
111	111	112	Baby	1420000000	
112	112	113	Manikarnika: The Queen of Jhansi	1420000000	
113	113	114	Luka Chuppi	1280000000	
114	114	115	Raajneeti	1450000000	
115	115	116	Talaash	1750000000	
116	116	117	Satyameva Jayate	1210000000	
117	117	118	Bholaa	1230000000	
118	118	119	Singh Is Bliing	1460000000	
119	119	120	Zindagi Na Milegi Dobara	1530000000	

	India Net	India Gross	Overseas	Budget	Verdict
100	1030000000	1440000000	300000000	650000000	Hit
101	1030000000	1320000000	220000000	350000000	SuperHit
102	1020000000	1420000000	300000000	500000000	SuperHit
103	1020000000	1300000000	140000000	350000000	SuperHit
104	1010000000	1310000000	300000000	850000000	Hit

105	1000000000	1300000000	200000000	520000000	SuperHit
106	1000000000	1380000000	80000000	1000000000	Below Average
107	990000000	1160000000	110000000	500000000	Hit
108	960000000	1200000000	570000000	2000000000	Disaster
109	960000000	1300000000	380000000	900000000	Average
110	960000000	1140000000	230000000	1000000000	Below Average
111	950000000	1290000000	130000000	590000000	Hit
112	940000000	1160000000	250000000	1010000000	Average
113	940000000	1110000000	170000000	200000000	SuperHit
114	930000000	1260000000	190000000	600000000	SuperHit
115	930000000	1210000000	530000000	600000000	Hit
116	900000000	1160000000	50000000	450000000	Hit
117	900000000	1080000000	150000000	1000000000	Average
118	900000000	1200000000	260000000	760000000	Average
119	890000000	1210000000	310000000	550000000	Hit

```
[5]: #Looking the rows and columns of the dataset
act.shape
```

```
[5]: (1000, 9)
```

```
[6]: #for showing all row and columns
act.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1000 entries, 0 to 999
Data columns (total 9 columns):
#   Column          Non-Null Count  Dtype
---  -
0   Unnamed: 0      1000 non-null   int64
1   SN              1000 non-null   int64
2   Movie          1000 non-null   object
3   Worldwide       1000 non-null   int64
4   India Net      1000 non-null   int64
5   India Gross    1000 non-null   int64
6   Overseas       1000 non-null   int64
7   Budget         1000 non-null   int64
8   Verdict        1000 non-null   object
dtypes: int64(7), object(2)
memory usage: 70.4+ KB
```

```
[7]: #for showing all row and columns
act.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1000 entries, 0 to 999
Data columns (total 9 columns):
#   Column          Non-Null Count  Dtype
---
```

```

---  -----  -----  -----
0  Unnamed: 0    1000 non-null    int64
1  SN            1000 non-null    int64
2  Movie         1000 non-null    object
3  Worldwide     1000 non-null    int64
4  India Net     1000 non-null    int64
5  India Gross   1000 non-null    int64
6  Overseas      1000 non-null    int64
7  Budget        1000 non-null    int64
8  Verdict       1000 non-null    object
dtypes: int64(7), object(2)
memory usage: 70.4+ KB

```

```
[8]: #To Know The Null Values Of Dataset
act.isnull()
```

```
[8]:
```

	Unnamed: 0	SN	Movie	Worldwide	India Net	India Gross	Overseas	\
0	False	False	False	False	False	False	False	
1	False	False	False	False	False	False	False	
2	False	False	False	False	False	False	False	
3	False	False	False	False	False	False	False	
4	False	False	False	False	False	False	False	
..	...	...	...	...	...	...	...	
995	False	False	False	False	False	False	False	
996	False	False	False	False	False	False	False	
997	False	False	False	False	False	False	False	
998	False	False	False	False	False	False	False	
999	False	False	False	False	False	False	False	

	Budget	Verdict
0	False	False
1	False	False
2	False	False
3	False	False
4	False	False
..	...	...
995	False	False
996	False	False
997	False	False
998	False	False
999	False	False

[1000 rows x 9 columns]

```
[9]: #it tells null values present or not in all columns
act.isnull().sum()
```

```
[9]: Unnamed: 0      0
      SN            0
      Movie         0
      Worldwide     0
      India Net     0
      India Gross   0
      Overseas      0
      Budget        0
      Verdict       0
      dtype: int64
```

```
[10]: #to know the duplicate values
      act.duplicated()
```

```
[10]: 0      False
      1      False
      2      False
      3      False
      4      False
      ...
      995    False
      996    False
      997    False
      998    False
      999    False
      Length: 1000, dtype: bool
```

```
[11]: #to know the duplicate values as per column
      act.duplicated().sum()
```

```
[11]: 0
```

```
[12]: #to know the duplicate values as per specific column
      act["Movie"].duplicated().sum()
```

```
[12]: 6
```

```
[13]: #to drop duplicates from the column
      print(act.drop_duplicates("Movie"))
```

	Unnamed: 0	SN	Movie	Worldwide	India Net	\
0	0	1	Pathaan	10500000000	5240000000	
1	1	2	Baahubali 2 The Conclusion	17880000000	5100000000	
2	2	3	KGF Chapter 2	12080000000	4350000000	
3	3	4	Dangal	20700000000	3740000000	
4	4	5	Sanju	5880000000	3420000000	
..	...	...	...	...	...	
995	995	996	Nikamma	0	20000000	

996	996	997	Saugandh	30000000	20000000
997	997	998	Akaash Vani	30000000	20000000
998	998	999	Zwigato	10000000	20000000
999	999	1000	FryDay	20000000	20000000

	India Gross	Overseas	Budget	Verdict
0	6570000000	3920000000	2500000000	All Time Blockbuster
1	14160000000	3710000000	2500000000	All Time Blockbuster
2	10000000000	2070000000	1000000000	All Time Blockbuster
3	5350000000	15350000000	700000000	All Time Blockbuster
4	4380000000	1500000000	1000000000	All Time Blockbuster
..	...	...	...	...
995	20000000	0	10000000	0
996	30000000	0	20000000	Average
997	20000000	0	10000000	Disaster
998	10000000	0	10000000	0
999	20000000	0	150000000	Disaster

[994 rows x 9 columns]

```
[14]: act.iloc[90:100]
```

```
[14]: Unnamed: 0  SN      Movie  Worldwide  India Net  \
90      90    91      Bhaag Milkha Bhaag  1680000000  1080000000
91      91    92  Don 2: The Chase Continues  2100000000  1080000000
92      92    93      Golmaal 3  1620000000  1060000000
93      93    94  Pushpa: The Rise (Part 1)  3500000000  1060000000
94      94    95      ABCD 2  1660000000  1060000000
95      95    96      Ek Villain  1550000000  1050000000
96      96    97      Son Of Sardaar  1500000000  1050000000
97      97    98      Kaabil  1780000000  1040000000
98      98    99      De De Pyaar De  1390000000  1040000000
99      99   100      83  1930000000  1040000000
```

	India Gross	Overseas	Budget	Verdict
90	1460000000	210000000	300000000	SuperHit
91	1440000000	650000000	760000000	Hit
92	1430000000	180000000	400000000	Blockbuster
93	3130000000	360000000	1500000000	SuperHit
94	1460000000	190000000	650000000	SuperHit
95	1420000000	120000000	390000000	SuperHit
96	1410000000	80000000	400000000	SuperHit
97	1450000000	320000000	350000000	Hit
98	1130000000	260000000	750000000	Hit
99	1290000000	640000000	2200000000	Disaster

```
[15]: act.loc[(act["Budget"]==0), "Verdict", "High Flop"]
```

```
[15]: (887    All Time Blockbuster
      933           Blockbuster
      946    All Time Blockbuster
      968           Blockbuster
      976           Blockbuster
      Name: Verdict, dtype: object,
      'High Flop')
```

```
[16]: act.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1000 entries, 0 to 999
Data columns (total 9 columns):
#   Column          Non-Null Count  Dtype
---  -
0   Unnamed: 0      1000 non-null   int64
1   SN              1000 non-null   int64
2   Movie           1000 non-null   object
3   Worldwide        1000 non-null   int64
4   India Net        1000 non-null   int64
5   India Gross      1000 non-null   int64
6   Overseas         1000 non-null   int64
7   Budget           1000 non-null   int64
8   Verdict          1000 non-null   object
dtypes: int64(7), object(2)
memory usage: 70.4+ KB
```

```
[17]: ver2=act["Verdict"]=act["Verdict"].replace(0,"Flop")
      print(ver2)
```

```
0    All Time Blockbuster
1    All Time Blockbuster
2    All Time Blockbuster
3    All Time Blockbuster
4    All Time Blockbuster
...
995           0
996      Average
997      Disaster
998           0
999      Disaster
Name: Verdict, Length: 1000, dtype: object
```

```
[19]: act["Movie With Verdict"] = act["Movie"]+ " " + act["Verdict"]
      print(act)
```

```
      Unnamed: 0    SN      Movie    Worldwide    India Net \
0           0      1    Pathaan    10500000000    5240000000
```

1	1	2	Baahubali 2 The Conclusion	17880000000	5100000000
2	2	3	KGF Chapter 2	12080000000	4350000000
3	3	4	Dangal	20700000000	3740000000
4	4	5	Sanju	5880000000	3420000000
..	...	...	...	...	...
995	995	996	Nikamma	0	20000000
996	996	997	Saugandh	30000000	20000000
997	997	998	Akaash Vani	30000000	20000000
998	998	999	Zwigato	10000000	20000000
999	999	1000	FryDay	20000000	20000000

	India Gross	Overseas	Budget	Verdict \
0	6570000000	3920000000	2500000000	All Time Blockbuster
1	14160000000	3710000000	2500000000	All Time Blockbuster
2	10000000000	2070000000	1000000000	All Time Blockbuster
3	5350000000	15350000000	700000000	All Time Blockbuster
4	4380000000	1500000000	1000000000	All Time Blockbuster
..	...	...	...	...
995	20000000	0	10000000	0
996	30000000	0	20000000	Average
997	20000000	0	100000000	Disaster
998	10000000	0	10000000	0
999	20000000	0	150000000	Disaster

	Movie With Verdict
0	Pathaan All Time Blockbuster
1	Baahubali 2 The Conclusion All Time Blockbuster
2	KGF Chapter 2 All Time Blockbuster
3	Dangal All Time Blockbuster
4	Sanju All Time Blockbuster
..	...
995	Nikamma 0
996	Saugandh Average
997	Akaash Vani Disaster
998	Zwigato 0
999	FryDay Disaster

[1000 rows x 10 columns]

[23]: act.info()

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1000 entries, 0 to 999
Data columns (total 10 columns):
#   Column          Non-Null Count  Dtype
---  -
0   Unnamed: 0      1000 non-null  int64
1   SN              1000 non-null  int64
```

```

2   Movie                1000 non-null  object
3   Worldwide            1000 non-null  int64
4   India Net           1000 non-null  int64
5   India Gross          1000 non-null  int64
6   Overseas             1000 non-null  int64
7   Budget               1000 non-null  int64
8   Verdict              1000 non-null  object
9   Movie With Verdict   1000 non-null  object
dtypes: int64(7), object(3)
memory usage: 78.3+ KB

```

```
[27]: act["Verdict"].isnull().iloc[990:997]
```

```

[27]: 990    False
      991    False
      992    False
      993    False
      994    False
      995    False
      996    False
      Name: Verdict, dtype: bool

```

```

[31]: #To Addition India Worth And India Net That Store in India Worth New Column
      act["India worth"]=act["India Net"] + act["India Gross"]
      print(act)

```

	Unnamed: 0	SN	Movie	Worldwide	India Net \
0	0	1	Pathaan	10500000000	5240000000
1	1	2	Baahubali 2 The Conclusion	17880000000	5100000000
2	2	3	KGF Chapter 2	12080000000	4350000000
3	3	4	Dangal	20700000000	3740000000
4	4	5	Sanju	5880000000	3420000000
..	...	...	...	...	...
995	995	996	Nikamma	0	20000000
996	996	997	Saugandh	30000000	20000000
997	997	998	Akaash Vani	30000000	20000000
998	998	999	Zwigato	10000000	20000000
999	999	1000	FryDay	20000000	20000000

	India Gross	Overseas	Budget	Verdict \
0	6570000000	3920000000	2500000000	All Time Blockbuster
1	14160000000	3710000000	2500000000	All Time Blockbuster
2	10000000000	2070000000	1000000000	All Time Blockbuster
3	5350000000	15350000000	700000000	All Time Blockbuster
4	4380000000	1500000000	1000000000	All Time Blockbuster
..	...	...	...	...
995	20000000	0	10000000	0
996	30000000	0	20000000	Average



997	20000000	0	100000000	Disaster
998	10000000	0	10000000	0
999	20000000	0	150000000	Disaster

	Movie With Verdict	India worth
0	Pathaan All Time Blockbuster	11810000000
1	Baahubali 2 The Conclusion All Time Blockbuster	19260000000
2	KGF Chapter 2 All Time Blockbuster	14350000000
3	Dangal All Time Blockbuster	9090000000
4	Sanju All Time Blockbuster	7800000000
..	...	...
995	Nikamma 0	40000000
996	Saugandh Average	50000000
997	Akaash Vani Disaster	40000000
998	Zwigato 0	30000000
999	FryDay Disaster	40000000

[1000 rows x 11 columns]

```
[38]: #to summarize the data using group by function
gp=act.groupby(["Movie","Verdict"]).agg({"Movie":"count"})[0:10]
print(gp)
```

Movie	Verdict	Movie
102 Not Out	Hit	1
1920	Average	1
1920 - Evil Returns	Above Average	1
1920 London	Below Average	1
1921	Above Average	1
2	Average	1
2 States	SuperHit	1
3 Idiots	All Time Blockbuster	1
36 China Town	Above Average	1
7 Khoon Maaf	Flop	1

```
[41]: #to change the datatype into to float, float to int etc...
act['Budget']=act['Budget'].astype('float')
```

```
[43]: act.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1000 entries, 0 to 999
Data columns (total 11 columns):
#   Column          Non-Null Count  Dtype
---  -
0   Unnamed: 0      1000 non-null  int64
1   SN              1000 non-null  int64
```

```

2   Movie                1000 non-null  object
3   Worldwide            1000 non-null  int64
4   India Net            1000 non-null  int64
5   India Gross          1000 non-null  int64
6   Overseas             1000 non-null  int64
7   Budget               1000 non-null  float64
8   Verdict              1000 non-null  object
9   Movie With Verdict   1000 non-null  object
10  India worth          1000 non-null  int64
dtypes: float64(1), int64(7), object(3)
memory usage: 86.1+ KB

```

```
[47]: act['Budget']=act['Budget'].astype("int")
```

```
[49]: act.info()
```

```

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1000 entries, 0 to 999
Data columns (total 11 columns):
#   Column                Non-Null Count  Dtype
---  -
0   Unnamed: 0            1000 non-null  int64
1   SN                    1000 non-null  int64
2   Movie                 1000 non-null  object
3   Worldwide             1000 non-null  int64
4   India Net             1000 non-null  int64
5   India Gross           1000 non-null  int64
6   Overseas              1000 non-null  int64
7   Budget                1000 non-null  int32
8   Verdict               1000 non-null  object
9   Movie With Verdict    1000 non-null  object
10  India worth           1000 non-null  int64
dtypes: int32(1), int64(7), object(3)
memory usage: 82.2+ KB

```

```

[51]: #for changing the name of SN column to Serial No., inplace is used for saving
act.rename(columns={"SN":"Serial No."},inplace=True)
act.head(50)

```

```

[51]:   Unnamed: 0  Serial No.      Movie      Worldwide  \
0           0           1      Pathaan  10500000000
1           1           2  Baahubali 2 The Conclusion  17880000000
2           2           3      KGF Chapter 2  12080000000
3           3           4      Dangal  20700000000
4           4           5      Sanju  58800000000
5           5           6      PK  79200000000
6           6           7  Tiger Zinda Hai  55800000000

```

7	7	8	Bajrangi Bhaijaan	9220000000
8	8	9	War	4710000000
9	9	10	Padmaavat	5850000000
10	10	11	Sultan	6270000000
11	11	12	Kabir Singh	3770000000
12	12	13	Tanhaji: The Unsung Warrior	3610000000
13	13	14	RRR	12300000000
14	14	15	Dhoom 3	5580000000
15	15	16	The Kashmir Files	3410000000
16	16	17	Brahmastra Part One: Shiva	4310000000
17	17	18	URI The Surgical Strike	3410000000
18	18	19	Simmba	3900000000
19	19	20	Drishyam 2	3420000000
20	20	21	Kick	3780000000
21	21	22	Krrish 3	3740000000
22	22	23	Chennai Express	4220000000
23	23	24	Bharat	3210000000
24	24	25	Housefull 4	2960000000
25	25	26	Prem Ratan Dhan Payo	4050000000
26	26	27	Golmaal Again	3080000000
27	27	28	Good Newwz	3160000000
28	28	29	Mission Mangal	2900000000
29	29	30	3 Idiots	4600000000
30	30	31	Happy New Year	3970000000
31	31	32	Ek Tha Tiger	3200000000
32	32	33	Sooryavanshi	2930000000
33	33	34	2	7440000000
34	34	35	Yeh Jawaani Hai Deewani	3180000000
35	35	36	Bhool Bhulaiyaa 2	2650000000
36	36	37	Bajirao Mastani	3620000000
37	37	38	Bang Bang!	3400000000
38	38	39	Race 3	3000000000
39	39	40	Baaghi 2	2570000000
40	40	41	Raees	2850000000
41	41	42	Kesari	2080000000
42	42	43	Total Dhamaal	2320000000
43	43	44	Dabangg 2	2650000000
44	44	45	Chhichhore	2110000000
45	45	46	Tanu Weds Manu Returns	2580000000
46	46	47	Bodyguard	2300000000
47	47	48	Dilwale	3880000000
48	48	49	Super 30	2100000000
49	49	50	Tu Jhoothi Main Makkar	2230000000

	India Net	India Gross	Overseas	Budget	Verdict \
0	5240000000	6570000000	3920000000	-2147483648	All Time Blockbuster
1	5100000000	14160000000	3710000000	-2147483648	All Time Blockbuster

2	4350000000	10000000000	2070000000	1000000000	All Time Blockbuster
3	3740000000	5350000000	1535000000	700000000	All Time Blockbuster
4	3420000000	4380000000	1500000000	1000000000	All Time Blockbuster
5	3400000000	4890000000	3030000000	850000000	All Time Blockbuster
6	3390000000	4330000000	1240000000	2100000000	Blockbuster
7	3200000000	4320000000	4890000000	900000000	All Time Blockbuster
8	3030000000	3750000000	960000000	1500000000	Blockbuster
9	3020000000	4000000000	1850000000	-2147483648	Blockbuster
10	3000000000	4210000000	2060000000	800000000	Blockbuster
11	2780000000	3300000000	470000000	550000000	All Time Blockbuster
12	2770000000	3250000000	360000000	1500000000	Blockbuster
13	2720000000	9150000000	3140000000	-2147483648	Blockbuster
14	2710000000	3720000000	1860000000	1750000000	All Time Blockbuster
15	2520000000	2950000000	460000000	200000000	All Time Blockbuster
16	2490000000	3180000000	1130000000	-2147483648	Hit
17	2440000000	2930000000	480000000	700000000	All Time Blockbuster
18	2400000000	2950000000	950000000	900000000	Blockbuster
19	2390000000	2820000000	590000000	500000000	All Time Blockbuster
20	2310000000	3100000000	680000000	1000000000	SuperHit
21	2310000000	3130000000	610000000	940000000	Blockbuster
22	2270000000	3100000000	1120000000	1150000000	SuperHit
23	2120000000	2510000000	700000000	1650000000	Hit
24	2100000000	2470000000	490000000	1750000000	SuperHit
25	2100000000	3100000000	950000000	1800000000	SuperHit
26	2050000000	2620000000	450000000	800000000	Blockbuster
27	2050000000	2420000000	740000000	600000000	Blockbuster
28	2030000000	2360000000	540000000	400000000	Blockbuster
29	2020000000	2740000000	1860000000	550000000	All Time Blockbuster
30	1990000000	2950000000	1020000000	1500000000	Hit
31	1980000000	2630000000	570000000	750000000	Blockbuster
32	1950000000	2300000000	620000000	1800000000	SuperHit
33	1900000000	5510000000	1930000000	-2147483648	Average
34	1880000000	2420000000	760000000	750000000	Blockbuster
35	1840000000	2160000000	490000000	800000000	Blockbuster
36	1840000000	2630000000	990000000	1450000000	Hit
37	1740000000	2700000000	700000000	1600000000	Hit
38	1690000000	2170000000	830000000	1700000000	Average
39	1650000000	2110000000	450000000	750000000	Blockbuster
40	1640000000	2270000000	570000000	920000000	Hit
41	1550000000	1830000000	250000000	1000000000	Hit
42	1550000000	1830000000	480000000	1050000000	SuperHit
43	1550000000	2260000000	390000000	840000000	Blockbuster
44	1530000000	1800000000	310000000	700000000	Blockbuster
45	1500000000	2140000000	440000000	390000000	Blockbuster
46	1480000000	1890000000	410000000	600000000	Blockbuster
47	1480000000	2120000000	1760000000	1650000000	Average
48	1470000000	1710000000	390000000	600000000	SuperHit

49 1470000000 1750000000 480000000 700000000 Hit

	Movie With Verdict	India worth
0	Pathaan All Time Blockbuster	11810000000
1	Baahubali 2 The Conclusion All Time Blockbuster	19260000000
2	KGF Chapter 2 All Time Blockbuster	14350000000
3	Dangal All Time Blockbuster	9090000000
4	Sanju All Time Blockbuster	7800000000
5	PK All Time Blockbuster	8290000000
6	Tiger Zinda Hai Blockbuster	7720000000
7	Bajrangi Bhaijaan All Time Blockbuster	7520000000
8	War Blockbuster	6780000000
9	Padmaavat Blockbuster	7020000000
10	Sultan Blockbuster	7210000000
11	Kabir Singh All Time Blockbuster	6080000000
12	Tanhaji: The Unsung Warrior Blockbuster	6020000000
13	RRR Blockbuster	11870000000
14	Dhoom 3 All Time Blockbuster	6430000000
15	The Kashmir Files All Time Blockbuster	5470000000
16	Brahmastra Part One: Shiva Hit	5670000000
17	URI The Surgical Strike All Time Blockbuster	5370000000
18	Simmba Blockbuster	5350000000
19	Drishyam 2 All Time Blockbuster	5210000000
20	Kick SuperHit	5410000000
21	Krrish 3 Blockbuster	5440000000
22	Chennai Express SuperHit	5370000000
23	Bharat Hit	4630000000
24	Housefull 4 SuperHit	4570000000
25	Prem Ratan Dhan Payo SuperHit	5200000000
26	Golmaal Again Blockbuster	4670000000
27	Good Newwz Blockbuster	4470000000
28	Mission Mangal Blockbuster	4390000000
29	3 Idiots All Time Blockbuster	4760000000
30	Happy New Year Hit	4940000000
31	Ek Tha Tiger Blockbuster	4610000000
32	Sooryavanshi SuperHit	4250000000
33	2 Average	7410000000
34	Yeh Jawaani Hai Deewani Blockbuster	4300000000
35	Bhool Bhulaiyaa 2 Blockbuster	4000000000
36	Bajirao Mastani Hit	4470000000
37	Bang Bang! Hit	4440000000
38	Race 3 Average	3860000000
39	Baaghi 2 Blockbuster	3760000000
40	Raees Hit	3910000000
41	Kesari Hit	3380000000
42	Total Dhamaal SuperHit	3380000000
43	Dabangg 2 Blockbuster	3810000000

```

44                      Chhichhore Blockbuster 3330000000
45          Tanu Weds Manu Returns Blockbuster 3640000000
46                      Bodyguard Blockbuster 3370000000
47                      Dilwale Average 3600000000
48                      Super 30 SuperHit 3180000000
49          Tu Jhoothi Main Makkar Hit 3220000000

```

```

[53]: #for describing the specific columns
      act[["India Net","India Gross","Budget"]].describe()

```

```

[53]:      India Net      India Gross      Budget
count  1.000000e+03  1.000000e+03  1.000000e+03
mean   4.079600e+08  6.126900e+08  2.285455e+08
std    5.783055e+08  9.814085e+08  5.357887e+08
min    2.000000e+07  0.000000e+00 -2.147484e+09
25%    9.000000e+07  1.400000e+08  8.000000e+07
50%    2.000000e+08  3.100000e+08  2.000000e+08
75%    4.600000e+08  6.825000e+08  3.800000e+08
max    5.240000e+09  1.416000e+10  2.100000e+09

```

```

[55]: act[["Verdict"]].describe()

```

```

[55]:      Verdict
count      1000
unique       10
top         Flop
freq        197

```

```

[57]: act.columns

```

```

[57]: Index(['Unnamed: 0', 'Serial No.', 'Movie', 'Worldwide', 'India Net',
          'India Gross', 'Overseas', 'Budget', 'Verdict', 'Movie With Verdict',
          'India worth'],
          dtype='object')

```

```

[59]: act["Budget"].describe()

```

```

[59]: count      1.000000e+03
mean      2.285455e+08
std       5.357887e+08
min      -2.147484e+09
25%       8.000000e+07
50%       2.000000e+08
75%       3.800000e+08
max       2.100000e+09
Name: Budget, dtype: float64

```

```
[61]: #Removing Negative Value From Budget Column
act=act[(act["Budget"]>=0)]
```

```
[63]: act.head(50)
```

```
[63]:      Unnamed: 0  Serial No.      Movie      Worldwide  \
2           2           3      KGF Chapter 2  12080000000
3           3           4      Dangal  20700000000
4           4           5      Sanju  58800000000
5           5           6      PK  79200000000
6           6           7      Tiger Zinda Hai  55800000000
7           7           8      Bajrangi Bhaijaan  92200000000
8           8           9      War  47100000000
10          10          11      Sultan  62700000000
11          11          12      Kabir Singh  37700000000
12          12          13      Tanhaji: The Unsung Warrior  36100000000
14          14          15      Dhoom 3  55800000000
15          15          16      The Kashmir Files  34100000000
17          17          18      URI The Surgical Strike  34100000000
18          18          19      Simmba  39000000000
19          19          20      Drishyam 2  34200000000
20          20          21      Kick  37800000000
21          21          22      Krrish 3  37400000000
22          22          23      Chennai Express  42200000000
23          23          24      Bharat  32100000000
24          24          25      Housefull 4  29600000000
25          25          26      Prem Ratan Dhan Payo  40500000000
26          26          27      Golmaal Again  30800000000
27          27          28      Good Newwz  31600000000
28          28          29      Mission Mangal  29000000000
29          29          30      3 Idiots  46000000000
30          30          31      Happy New Year  39700000000
31          31          32      Ek Tha Tiger  32000000000
32          32          33      Sooryavanshi  29300000000
34          34          35      Yeh Jawaani Hai Deewani  31800000000
35          35          36      Bhool Bhulaiyaa 2  26500000000
36          36          37      Bajirao Mastani  36200000000
37          37          38      Bang Bang!  34000000000
38          38          39      Race 3  30000000000
39          39          40      Baaghi 2  25700000000
40          40          41      Raees  28500000000
41          41          42      Kesari  20800000000
42          42          43      Total Dhamaal  23200000000
43          43          44      Dabangg 2  26500000000
44          44          45      Chhichhore  21100000000
45          45          46      Tanu Weds Manu Returns  25800000000
46          46          47      Bodyguard  23000000000
```

47	47	48	Dilwale	3880000000
48	48	49	Super 30	2100000000
49	49	50	Tu Jhoothi Main Makkar	2230000000
50	50	51	Dabangg 3	2180000000
53	53	54	Dream Girl	1950000000
54	54	55	Singham Returns	2160000000
55	55	56	Dabangg	2150000000
56	56	57	Gully Boy	2350000000
57	57	58	Judwaa 2	2270000000

	India Net	India Gross	Overseas	Budget	Verdict \
2	4350000000	10000000000	2070000000	1000000000	All Time Blockbuster
3	3740000000	5350000000	15350000000	700000000	All Time Blockbuster
4	3420000000	4380000000	1500000000	1000000000	All Time Blockbuster
5	3400000000	4890000000	3030000000	850000000	All Time Blockbuster
6	3390000000	4330000000	1240000000	2100000000	Blockbuster
7	3200000000	4320000000	4890000000	900000000	All Time Blockbuster
8	3030000000	3750000000	960000000	1500000000	Blockbuster
10	3000000000	4210000000	2060000000	800000000	Blockbuster
11	2780000000	3300000000	470000000	550000000	All Time Blockbuster
12	2770000000	3250000000	360000000	1500000000	Blockbuster
14	2710000000	3720000000	1860000000	1750000000	All Time Blockbuster
15	2520000000	2950000000	460000000	200000000	All Time Blockbuster
17	2440000000	2930000000	480000000	700000000	All Time Blockbuster
18	2400000000	2950000000	950000000	900000000	Blockbuster
19	2390000000	2820000000	590000000	500000000	All Time Blockbuster
20	2310000000	3100000000	680000000	1000000000	SuperHit
21	2310000000	3130000000	610000000	940000000	Blockbuster
22	2270000000	3100000000	1120000000	1150000000	SuperHit
23	2120000000	2510000000	700000000	1650000000	Hit
24	2100000000	2470000000	490000000	1750000000	SuperHit
25	2100000000	3100000000	950000000	1800000000	SuperHit
26	2050000000	2620000000	450000000	800000000	Blockbuster
27	2050000000	2420000000	740000000	600000000	Blockbuster
28	2030000000	2360000000	540000000	400000000	Blockbuster
29	2020000000	2740000000	1860000000	550000000	All Time Blockbuster
30	1990000000	2950000000	1020000000	1500000000	Hit
31	1980000000	2630000000	570000000	750000000	Blockbuster
32	1950000000	2300000000	620000000	1800000000	SuperHit
34	1880000000	2420000000	760000000	750000000	Blockbuster
35	1840000000	2160000000	490000000	800000000	Blockbuster
36	1840000000	2630000000	990000000	1450000000	Hit
37	1740000000	2700000000	700000000	1600000000	Hit
38	1690000000	2170000000	830000000	1700000000	Average
39	1650000000	2110000000	450000000	750000000	Blockbuster
40	1640000000	2270000000	570000000	920000000	Hit
41	1550000000	1830000000	250000000	1000000000	Hit



42	1550000000	1830000000	480000000	1050000000	SuperHit
43	1550000000	2260000000	390000000	840000000	Blockbuster
44	1530000000	1800000000	310000000	700000000	Blockbuster
45	1500000000	2140000000	440000000	390000000	Blockbuster
46	1480000000	1890000000	410000000	600000000	Blockbuster
47	1480000000	2120000000	1760000000	1650000000	Average
48	1470000000	1710000000	390000000	600000000	SuperHit
49	1470000000	1750000000	480000000	700000000	Hit
50	1460000000	1780000000	400000000	900000000	Average
53	1410000000	1630000000	320000000	300000000	SuperHit
54	1400000000	2000000000	160000000	1050000000	SuperHit
55	1400000000	2070000000	70000000	420000000	Blockbuster
56	1390000000	1640000000	710000000	600000000	SuperHit
57	1380000000	1920000000	350000000	650000000	SuperHit

	Movie With Verdict	India worth
2	KGF Chapter 2 All Time Blockbuster	14350000000
3	Dangal All Time Blockbuster	9090000000
4	Sanju All Time Blockbuster	7800000000
5	PK All Time Blockbuster	8290000000
6	Tiger Zinda Hai Blockbuster	7720000000
7	Bajrangi Bhaijaan All Time Blockbuster	7520000000
8	War Blockbuster	6780000000
10	Sultan Blockbuster	7210000000
11	Kabir Singh All Time Blockbuster	6080000000
12	Tanhaji: The Unsung Warrior Blockbuster	6020000000
14	Dhoom 3 All Time Blockbuster	6430000000
15	The Kashmir Files All Time Blockbuster	5470000000
17	URI The Surgical Strike All Time Blockbuster	5370000000
18	Simmba Blockbuster	5350000000
19	Drishyam 2 All Time Blockbuster	5210000000
20	Kick SuperHit	5410000000
21	Krrish 3 Blockbuster	5440000000
22	Chennai Express SuperHit	5370000000
23	Bharat Hit	4630000000
24	Housefull 4 SuperHit	4570000000
25	Prem Ratan Dhan Payo SuperHit	5200000000
26	Golmaal Again Blockbuster	4670000000
27	Good Newwz Blockbuster	4470000000
28	Mission Mangal Blockbuster	4390000000
29	3 Idiots All Time Blockbuster	4760000000
30	Happy New Year Hit	4940000000
31	Ek Tha Tiger Blockbuster	4610000000
32	Sooryavanshi SuperHit	4250000000
34	Yeh Jawaani Hai Deewani Blockbuster	4300000000
35	Bhool Bhulaiyaa 2 Blockbuster	4000000000
36	Bajirao Mastani Hit	4470000000

37	Bang Bang! Hit	4440000000
38	Race 3 Average	3860000000
39	Baaghi 2 Blockbuster	3760000000
40	Raees Hit	3910000000
41	Kesari Hit	3380000000
42	Total Dhamaal SuperHit	3380000000
43	Dabangg 2 Blockbuster	3810000000
44	Chhichhore Blockbuster	3330000000
45	Tanu Weds Manu Returns Blockbuster	3640000000
46	Bodyguard Blockbuster	3370000000
47	Dilwale Average	3600000000
48	Super 30 SuperHit	3180000000
49	Tu Jhoothi Main Makkar Hit	3220000000
50	Dabangg 3 Average	3240000000
53	Dream Girl SuperHit	3040000000
54	Singham Returns SuperHit	3400000000
55	Dabangg Blockbuster	3470000000
56	Gully Boy SuperHit	3030000000
57	Judwaa 2 SuperHit	3300000000

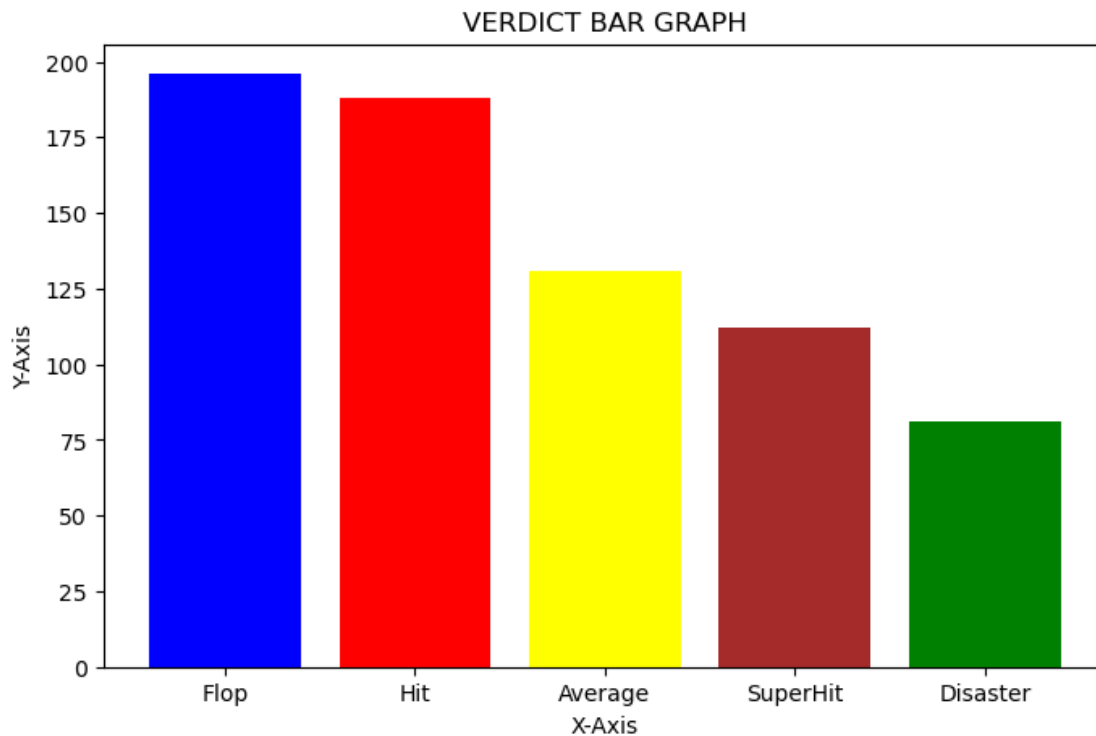
```
[65]: #Getting the frequency of Verdict Column
act["Verdict"].value_counts()
```

```
[65]: Verdict
Flop          196
Hit           188
Average       131
SuperHit      112
Disaster       81
Blockbuster   71
Below Average 66
Above Average 55
0             44
All Time Blockbuster 26
Name: count, dtype: int64
```

```
[67]: #Getting the frequency of Verdict Column Top 10
act['Verdict'].value_counts()[0:5]
```

```
[67]: Verdict
Flop          196
Hit           188
Average       131
SuperHit      112
Disaster       81
Name: count, dtype: int64
```

```
[69]: #ploting the 5 verdict countplot chart with values in graph or say
      ↪ labels=values her 1st half upto comma "," is for keys/Names and after comma
      ↪ it is for values
plt.figure(figsize=(8,5))
plt.title("VERDICT BAR GRAPH")
plt.xlabel("X-Axis")
plt.ylabel("Y-Axis")
plt.bar(act["Verdict"].value_counts()[0:5].keys(),(act["Verdict"].
      ↪ value_counts()[0:5]),color=["blue","red","yellow","brown","green"])
plt.show()
```



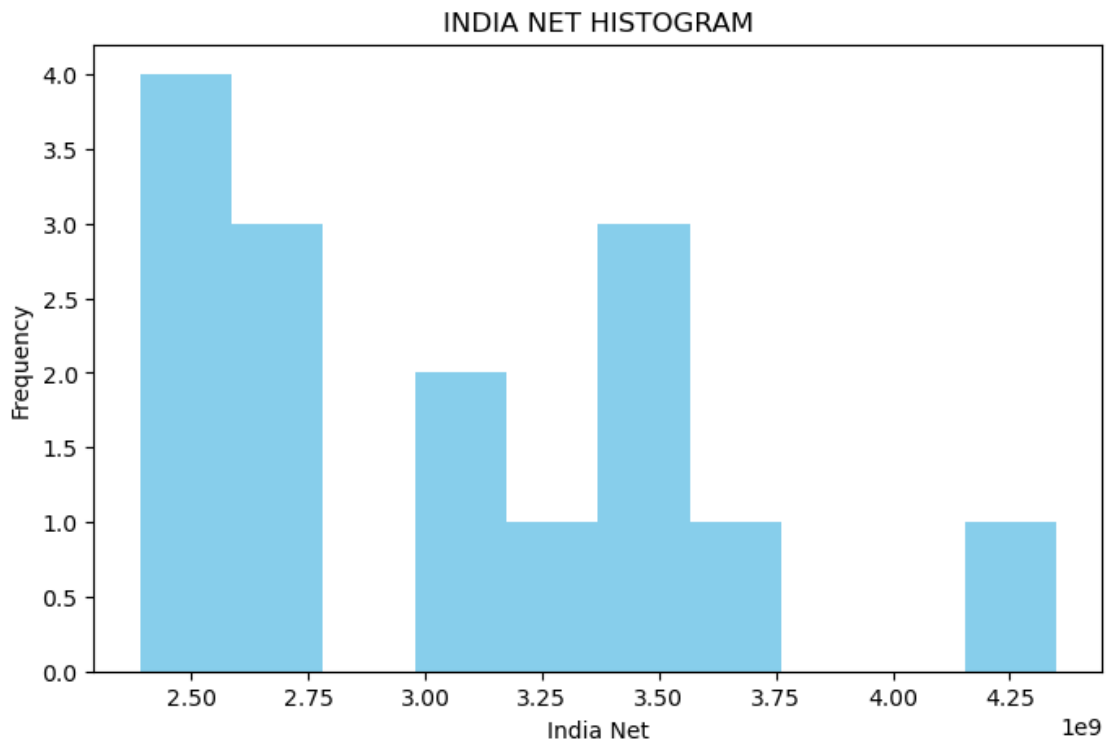
```
[71]: #For Showing Counts Of India Net
act["India Net"].value_counts()[0:15]
```

```
[71]: India Net
100000000    36
50000000     35
20000000     34
30000000     33
60000000     33
70000000     32
80000000     31
110000000    28
```

400000000	27
1500000000	25
2000000000	25
1700000000	24
1300000000	23
1200000000	22
900000000	21

Name: count, dtype: int64

```
[73]: #histogram of India Net Column
plt.figure(figsize=(8,5))
plt.title("INDIA NET HISTOGRAM")
plt.xlabel("India Net")
plt.ylabel("Frequency")
plt.hist(act["India Net"][0:15],bins=10,color="SkyBlue")
plt.show()
```



```
[75]: act["Verdict"].value_counts()
```

```
[75]: Verdict
      Flop          196
      Hit           188
      Average       131
```

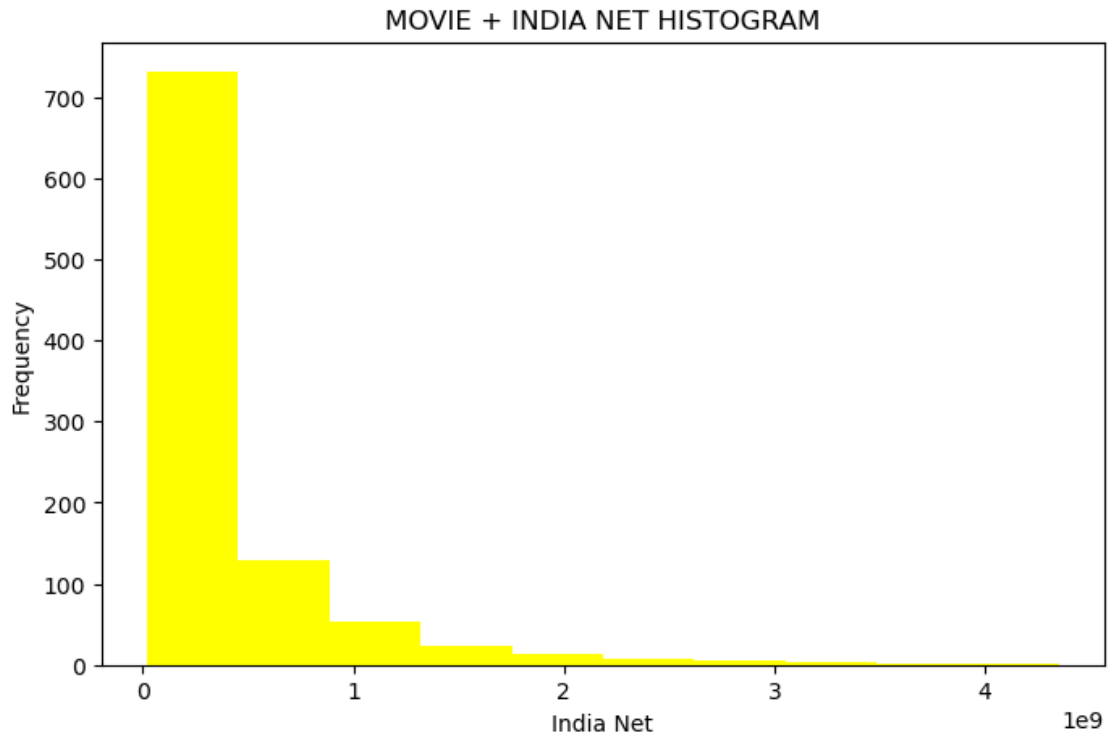
SuperHit	112
Disaster	81
Blockbuster	71
Below Average	66
Above Average	55
0	44
All Time Blockbuster	26

Name: count, dtype: int64

```
[77]: #histogram of India Net Column
ver=act[["Movie","India Gross"]][0:11]
print(ver)
```

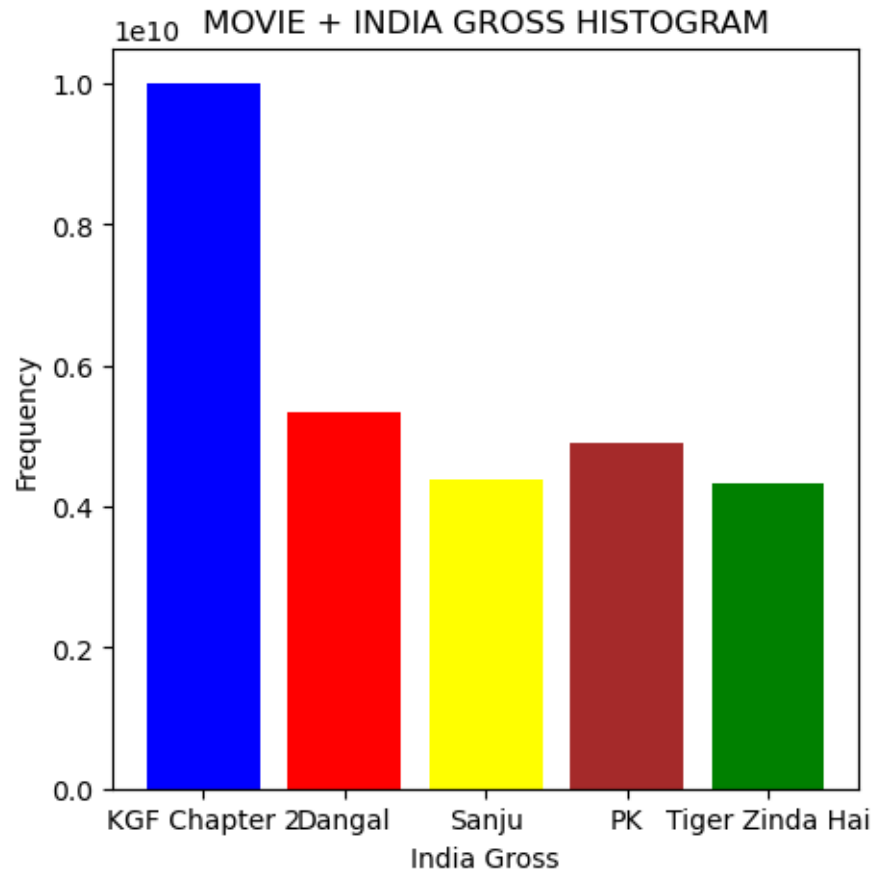
	Movie	India Gross
2	KGF Chapter 2	10000000000
3	Dangal	5350000000
4	Sanju	4380000000
5	PK	4890000000
6	Tiger Zinda Hai	4330000000
7	Bajrangi Bhaijaan	4320000000
8	War	3750000000
10	Sultan	4210000000
11	Kabir Singh	3300000000
12	Tanhaji: The Unsung Warrior	3250000000
14	Dhoom 3	3720000000

```
[79]: plt.figure(figsize=(8,5))
plt.title("MOVIE + INDIA NET HISTOGRAM")
plt.xlabel("India Net")
plt.ylabel("Frequency")
plt.hist(act["India Net"],bins=10,color="yellow")
plt.show()
```



```
[81]: plt.figure(figsize=(5,5))
plt.title("MOVIE + INDIA GROSS HISTOGRAM")
plt.xlabel("India Gross")
plt.ylabel("Frequency")
plt.bar(list(ver["Movie"][0:5]),list(ver["India Gross"])[0:
↪5],color=["blue","red","yellow","brown","green"])
```

[81]: <BarContainer object of 5 artists>



```
[83]: #to check following movie present in the column or not
      #here true in war means war is present
      ver["Movie"]=="War"[0:100]
```

```
[83]: 2    False
      3    False
      4    False
      5    False
      6    False
      7    False
      8     True
     10    False
     11    False
     12    False
     14    False
      Name: Movie, dtype: bool
```

```
[85]: #Dropping War From The List
      ver.drop(8,inplace=True)
```

```
[99]: #To Print The Updated List
      #Output=False Means War is Dropped
      ver=["Movie"]=="War"[0:100]
      ver
```

[99]: False

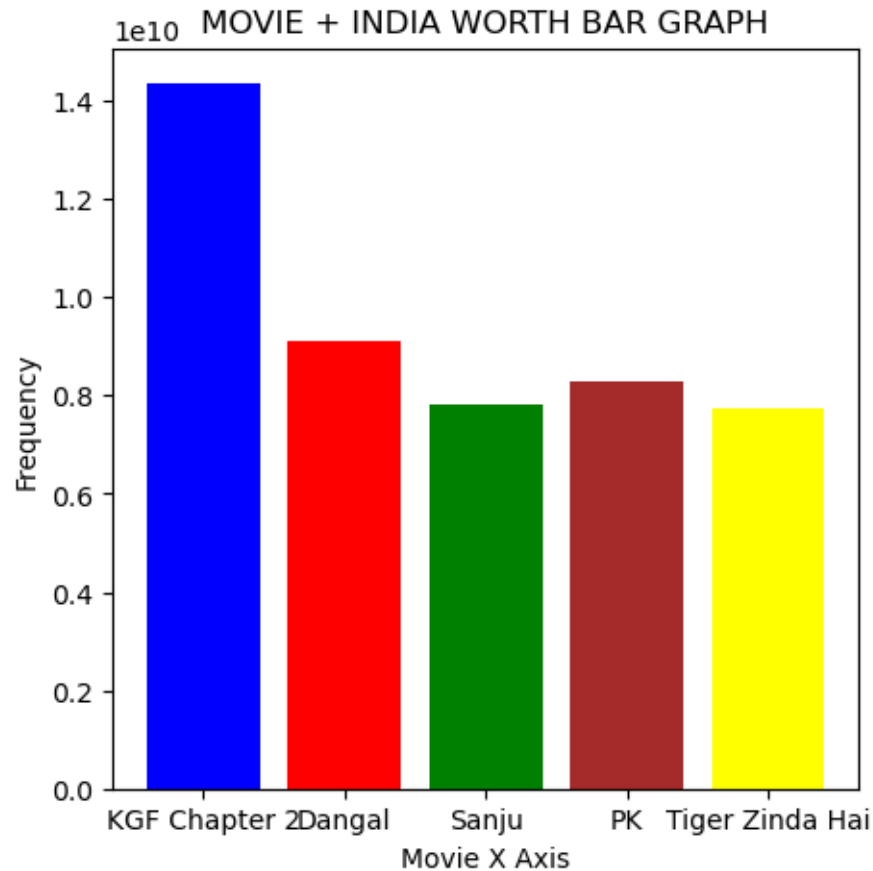
```
[95]: total=act[["Movie","India worth"]]
      total.head(10)
```

```
[95]:
```

	Movie	India worth
2	KGF Chapter 2	14350000000
3	Dangal	9090000000
4	Sanju	7800000000
5	PK	8290000000
6	Tiger Zinda Hai	7720000000
7	Bajrangi Bhaijaan	7520000000
8	War	6780000000
10	Sultan	7210000000
11	Kabir Singh	6080000000
12	Tanhaji: The Unsung Warrior	6020000000

```
[318]: #To Print Top 5 Movie With India Worth Graph
      plt.figure(figsize=(5,5))
      plt.title("MOVIE + INDIA WORTH BAR GRAPH")
      plt.xlabel("Movie X Axis")
      plt.ylabel("Frequency")
      plt.bar(list(total["Movie"][0:5]),list(total["India worth"])[0:
      ↪5],color=["blue","red","green","brown","yellow"])
      plt.show()
```





```
[110]: #top 10 movies With India Total Worth Or Earning On India Basis
india_ttl=total.head(10)
india_ttl
```

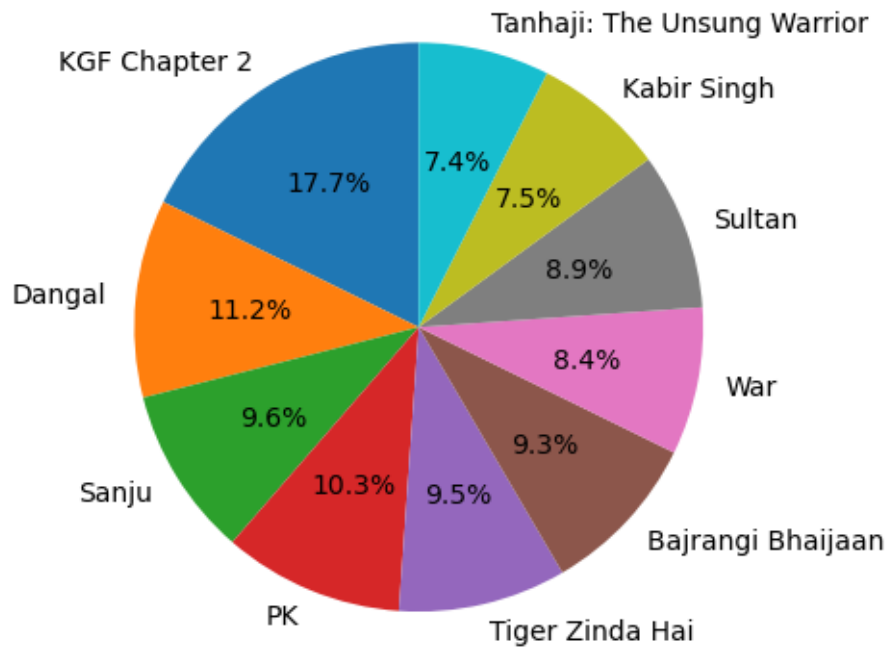
```
[110]:
```

	Movie	India worth
2	KGF Chapter 2	14350000000
3	Dangal	9090000000
4	Sanju	7800000000
5	PK	8290000000
6	Tiger Zinda Hai	7720000000
7	Bajrangi Bhaijaan	7520000000
8	War	6780000000
10	Sultan	7210000000
11	Kabir Singh	6080000000
12	Tanhaji: The Unsung Warrior	6020000000

```
[112]: #Plotting Pie Chart Of Top 10 Movies With Total India Worth Or Total Earning
↳from startangle 90 degree from 1 to 10 in order
plt.title("TOTAL INDIA WORTH WITH MOVIE PIE CHART")
```

```
plt.pie(india_ttl["India worth"],labels=india_ttl["Movie"],autopct="%0.
↪1f%",startangle=90)
plt.show()
```

MOVIES AND TOTAL INDIA WORTH PIE CHART



```
[116]: #To Concatinate New "Movie With Verdict Column"
ver=act[["Movie","India worth","Movie With Verdict"]]
per=ver.head(10)
per
```

```
[116]:
```

	Movie	India worth \
2	KGF Chapter 2	14350000000
3	Dangal	9090000000
4	Sanju	7800000000
5	PK	8290000000
6	Tiger Zinda Hai	7720000000
7	Bajrangi Bhaijaan	7520000000
8	War	6780000000
10	Sultan	7210000000
11	Kabir Singh	6080000000
12	Tanhaji: The Unsung Warrior	6020000000

Movie With Verdict

```

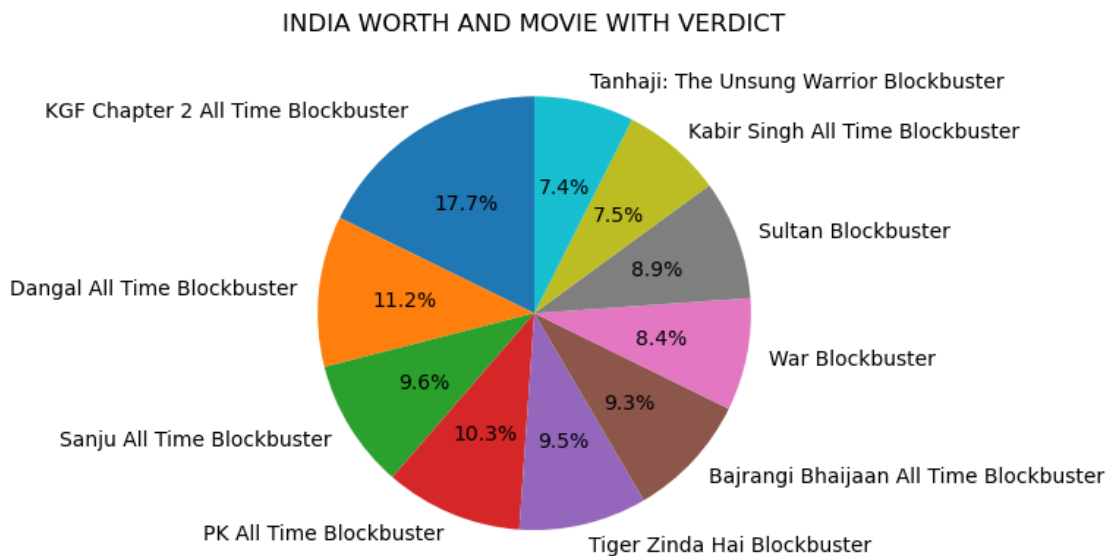
2      KGF Chapter 2 All Time Blockbuster
3      Dangal All Time Blockbuster
4      Sanju All Time Blockbuster
5      PK All Time Blockbuster
6      Tiger Zinda Hai Blockbuster
7      Bajrangi Bhaijaan All Time Blockbuster
8      War Blockbuster
10     Sultan Blockbuster
11     Kabir Singh All Time Blockbuster
12    Tanhaji: The Unsung Warrior Blockbuster

```

```

[118]: #Plotting Pie Chart Of Top 10 Movies With Total India Worth Or Total Earning
        ↪from startangle 90 degree from 1 to 10 in order
plt.title("INDIA WORTH AND MOVIE WITH VERDICT")
plt.pie(per["India worth"],labels=per["Movie With Verdict"],autopct="%0.
        ↪1f%",startangle=90)
plt.show()

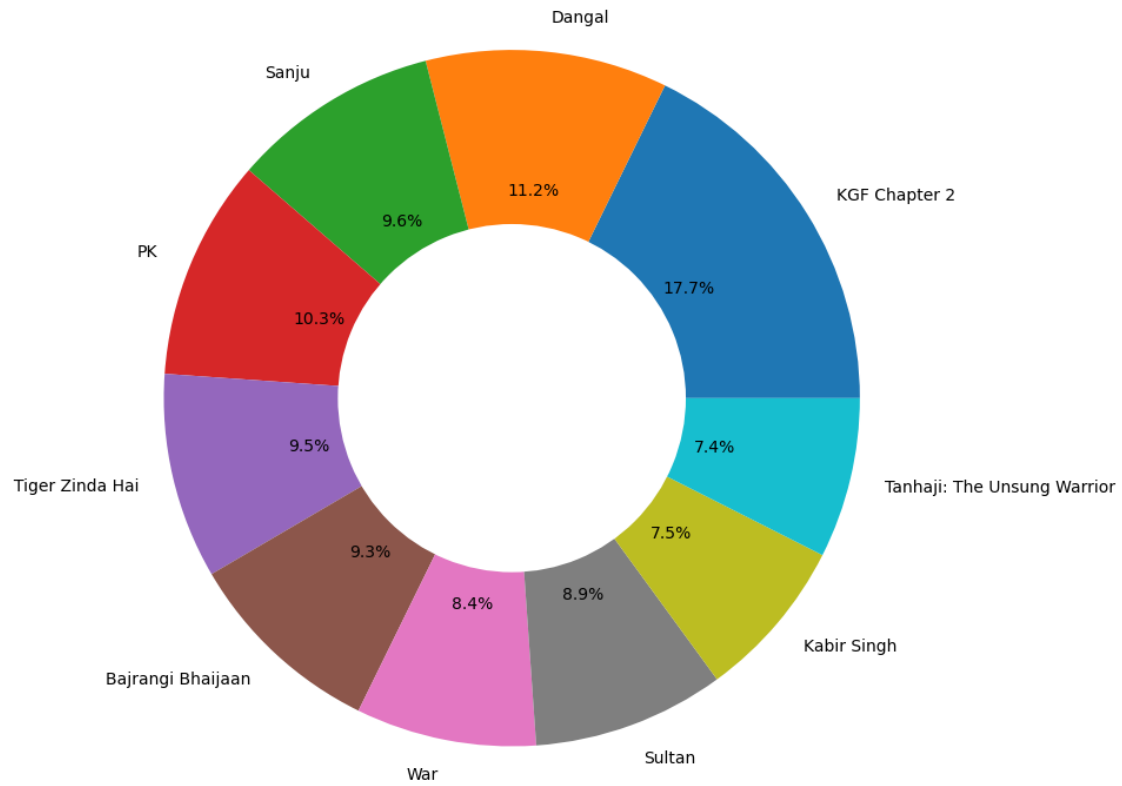
```



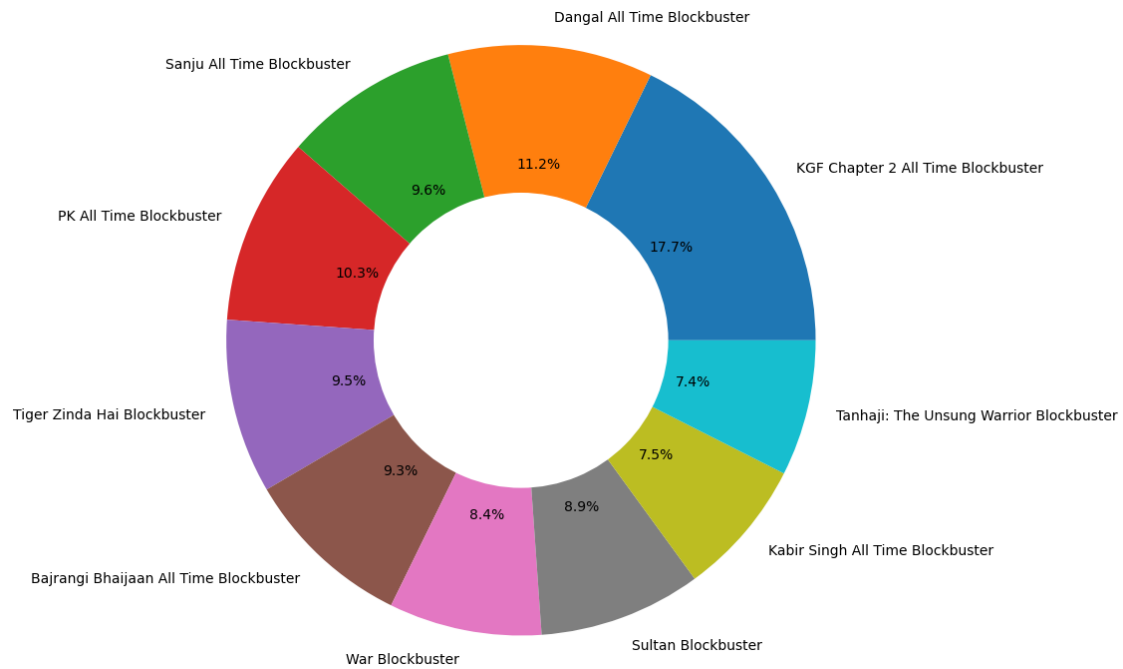
```

[198]: #Doughnut Chart Of India Worth And Movies
plt.pie(per["India worth"],labels=per["Movie"],radius=2,autopct="%0.1f%%")
plt.pie([1],colors=["white"],radius=1)
plt.show()

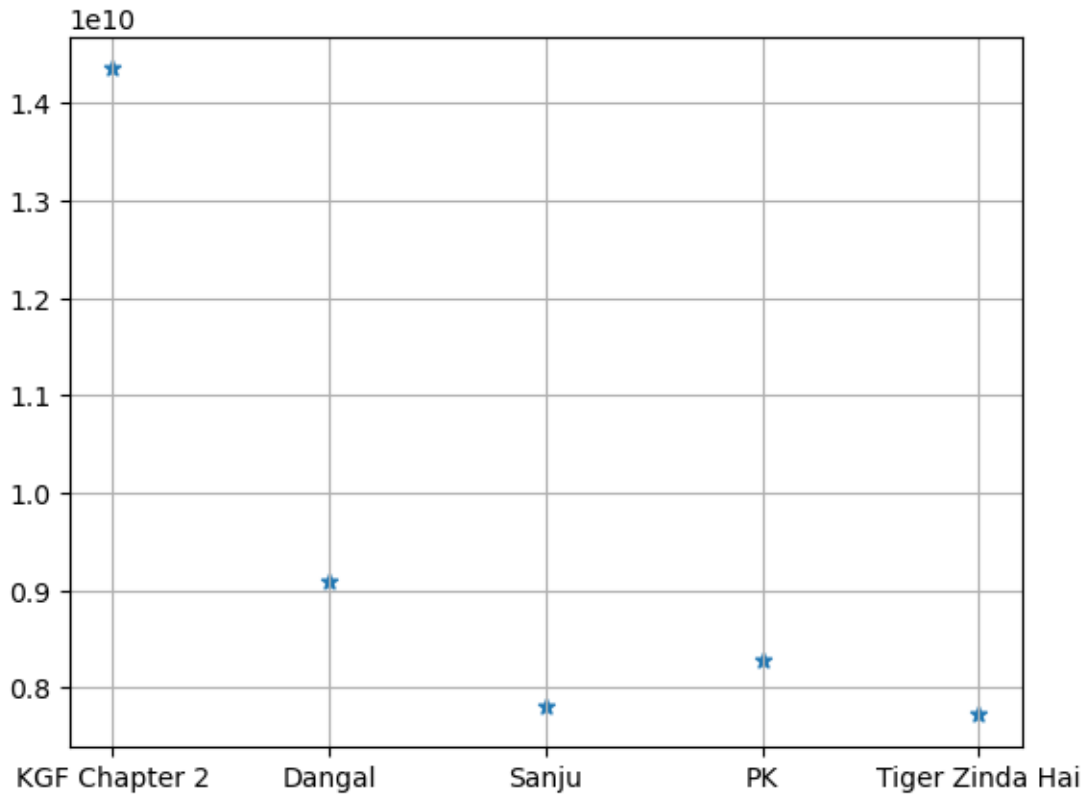
```



```
[196]: #Doughnut Chart Of India Worth And Movie With Verdict
plt.pie(per["India worth"],labels=per["Movie With Verdict"],radius=2,autopct="%0.1f%%")
plt.pie([1],colors=["white"],radius=1)
plt.show()
```



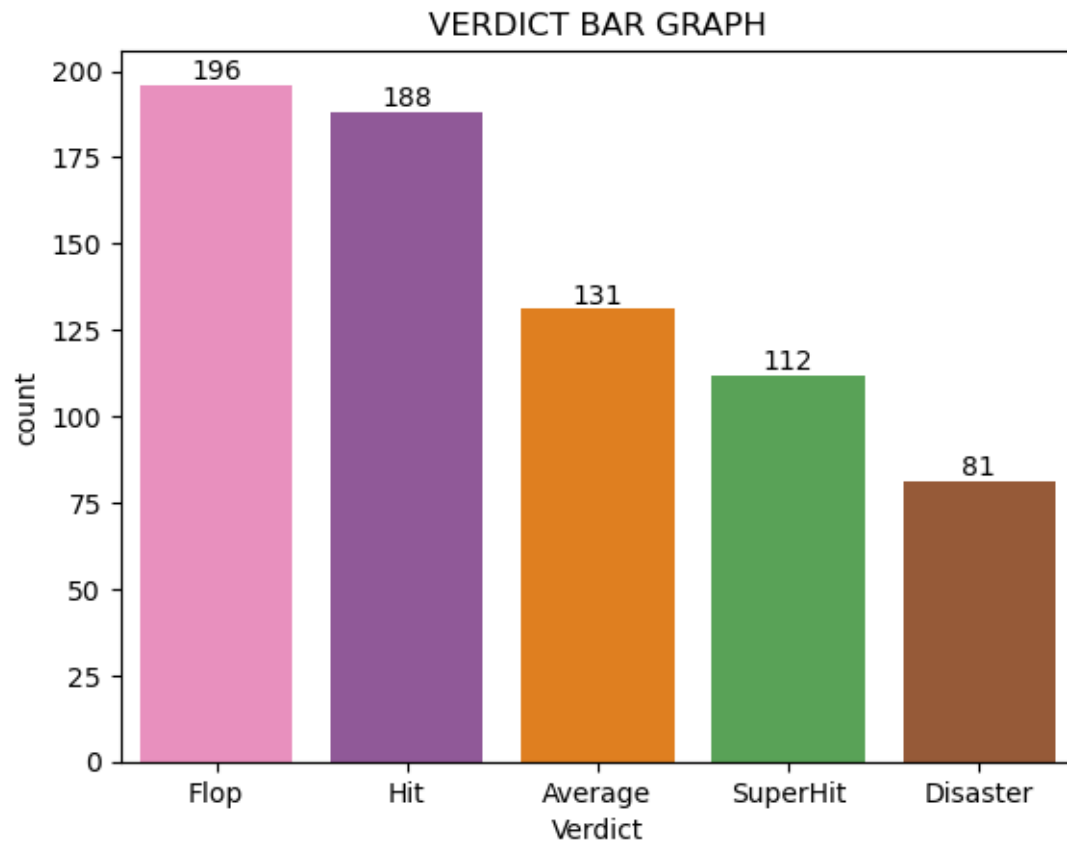
```
[218]: #To Plot The Scatter Plot With Grids Of Top 5 Movies
plt.grid(True)
plt.scatter(ver["Movie"][0:5],list(ver["India worth"])[0:5],marker="*")
plt.show()
```



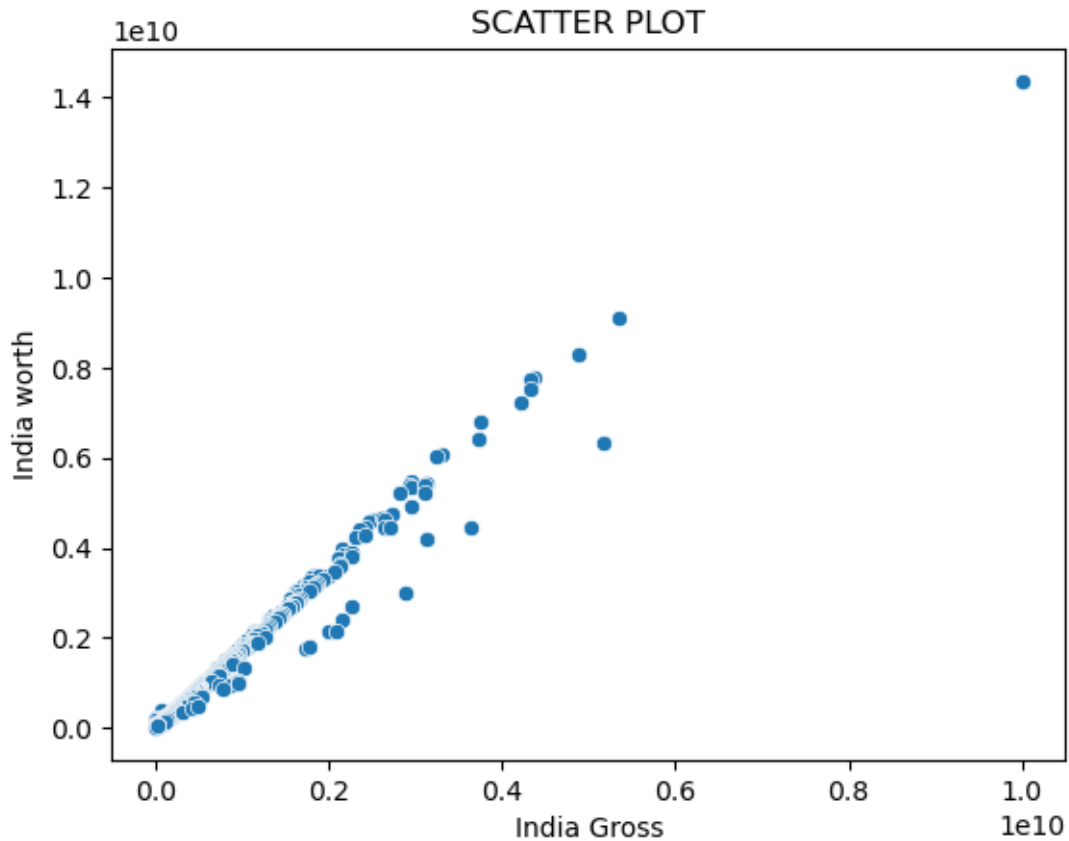
```
[328]: #SeabornGraph Bar Graph
plt.title("VERDICT BAR GRAPH")
plot=sns.countplot(x="Verdict",data=act,hue="Verdict",order=act["Verdict"].
    ↪value_counts().nlargest(5).index, palette="Set1",legend=False)

#For Printing Values Only Contains In Seaborn
for bars in plot.containers:
    plt.bar_label(bars)

plt.show()
```



```
[356]: #Plotting Scatter Graph Seaborn
plt.title("SCATTER PLOT")
sns.scatterplot(x="India Gross",y="India worth",data=act)
plt.show()
```



[360]: *#END OF PROJECT THE DATAA THAT WE USED!!!*

act.head(10)

```
[360]:      Unnamed: 0  Serial No.      Movie      Worldwide  \
2          2          3      KGF Chapter 2  12080000000
3          3          4      Dangal      20700000000
4          4          5      Sanju      58800000000
5          5          6          PK      79200000000
6          6          7      Tiger Zinda Hai  55800000000
7          7          8      Bajrangi Bhaijaan  92200000000
8          8          9          War      47100000000
10         10         11          Sultan      62700000000
11         11         12      Kabir Singh      37700000000
12         12         13  Tanhaji: The Unsung Warrior  36100000000

      India Net  India Gross  Overseas  Budget      Verdict  \
2  43500000000  10000000000  20700000000  10000000000  All Time Blockbuster
3  37400000000   53500000000  153500000000   7000000000  All Time Blockbuster
4  34200000000   43800000000  15000000000  10000000000  All Time Blockbuster
5   34000000000   48900000000  30300000000   8500000000  All Time Blockbuster
```



6	3390000000	4330000000	1240000000	2100000000		Blockbuster
7	3200000000	4320000000	4890000000	900000000	All Time	Blockbuster
8	3030000000	3750000000	960000000	1500000000		Blockbuster
10	3000000000	4210000000	2060000000	800000000		Blockbuster
11	2780000000	3300000000	470000000	550000000	All Time	Blockbuster
12	2770000000	3250000000	360000000	1500000000		Blockbuster

	Movie With Verdict	India worth
2	KGF Chapter 2 All Time Blockbuster	14350000000
3	Dangal All Time Blockbuster	9090000000
4	Sanju All Time Blockbuster	7800000000
5	PK All Time Blockbuster	8290000000
6	Tiger Zinda Hai Blockbuster	7720000000
7	Bajrangi Bhaijaan All Time Blockbuster	7520000000
8	War Blockbuster	6780000000
10	Sultan Blockbuster	7210000000
11	Kabir Singh All Time Blockbuster	6080000000
12	Tanhaji: The Unsung Warrior Blockbuster	6020000000

[ ]: