In [1]:

```
import pandas as pd
```

In [2]:

```
data=pd.read_csv("/home/placement/Downloads/movies.csv")
```

In [3]:

```
data.describe()
```

Out[3]:

	srno	year	rating	time
count	49590.000000	49590.000000	10814.000000	45836.000000
mean	24795.500000	2002.303428	3.451248	2628.445436
std	14315.544261	12.534555	0.495601	1604.646265
min	1.000000	1913.000000	1.400000	52.000000
25%	12398.250000	1999.000000	3.100000	1356.000000
50%	24795.500000	2007.000000	3.500000	2563.000000
75%	37192.750000	2010.000000	3.800000	2877.000000
max	49590.000000	2014.000000	4.500000	28813.000000

In [4]:

```
data.head()
```

Out[4]:

	srno	movie	year	rating	time
0	1	The Nightmare Before	1993	3.9	4568.0
1	2	The Mummy	1932	3.5	4388.0
2	3	Orphans of the Storm	1921	3.2	9062.0
3	4	The Object of Beauty	1991	2.8	6150.0
4	5	Night Tide	1963	2.8	5126.0

In [5]:

```
data.tail(3)
```

Out[5]:

	srno	movie	year	rating	time
49587	49588	Fireplace For Your Home: Crackling Fireplace w...	2010	NaN	3610.0
49588	49589	Kate Plus Ei8ht	2010	2.7	NaN
49589	49590	Kate Plus Ei8ht: Season 1	2010	2.7	NaN

In [6]:

```
data.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 49590 entries, 0 to 49589
Data columns (total 5 columns):
 #   Column  Non-Null Count  Dtype  
---  ------  --------------  -----  
 0   srno    49590 non-null  int64  
 1   movie   49590 non-null  object 
 2   year    49590 non-null  int64  
 3   rating  10814 non-null  float64
 4   time    45836 non-null  float64
dtypes: float64(2), int64(2), object(1)
memory usage: 1.9+ MB
```

In [7]:

```
data["year"].unique()
```

Out[7]:

```
array([1993, 1932, 1921, 1991, 1963, 1985, 1994, 1929, 1995, 1919, 199
6,
       1915, 1978, 1971, 1935, 1981, 1989, 1987, 1986, 1972, 1992, 193
8,
       1990, 1999, 1976, 1973, 1979, 1975, 1920, 1982, 1950, 1970, 196
8,
       1939, 1988, 1974, 1980, 1959, 1956, 1952, 1923, 1969, 1964, 194
7,
       1984, 1925, 1936, 1997, 1998, 1927, 1983, 1924, 1928, 1937, 197
7,
       1953, 1916, 1960, 1926, 1941, 1949, 1931, 1955, 1940, 2000, 196
2,
       1966, 2001, 1942, 1967, 1954, 1914, 1958, 1951, 1945, 1965, 194
4,
       1934, 1933, 1948, 1957, 2002, 2003, 1961, 2004, 1946, 2005, 192
2,
       1930, 2010, 2011, 1943, 2006, 2007, 2008, 2009, 2013, 2012, 191
3,
       1918, 2014])
```

In [8]:

```
data["time"].sum()
```

Out[8]:

```
120477425.0
```

In [9]:

```
data1=data.loc[data.time>5000]
data1
```

Out[9]:

	srno	movie	year	rating	time
2	3	Orphans of the Storm	1921	3.2	9062.0
3	4	The Object of Beauty	1991	2.8	6150.0
4	5	Night Tide	1963	2.8	5126.0
5	6	One Magic Christmas	1985	3.8	5333.0
6	7	Muriel's Wedding	1994	3.5	6323.0
...	...	...	...	...	...
49564	49565	American Addict	2013	3.5	5377.0
49579	49580	Underground: The Julian Assange Story	2012	3.7	5665.0
49583	49584	Sunset Strip	2012	3.0	5770.0
49584	49585	Silver Bells	2013	3.5	5287.0
49586	49587	Top Gear: Series 19: Africa Special	2013	NaN	6822.0

5897 rows × 5 columns

In [ ]:

```

```

In [14]:

```
data2=data.loc[(data.time>5000) & (data.year==2000)]
data2
```

Out[14]:

	srno	movie	year	rating	time
409	410	Believe	2000	3.3	5767.0
416	417	The Prophecy 3: The Ascent	2000	3.4	5048.0
430	431	Scream 3	2000	3.2	7013.0
432	433	Holy Smoke	2000	3.0	6855.0
437	438	Requiem for a Dream	2000	3.9	6087.0
...	...	...	...	...	...
32557	32558	Shaded Places	2000	2.9	5350.0
36229	36230	The Three Stooges	2000	3.7	5256.0
37333	37334	Les Miserables: Pt. 2	2000	NaN	5170.0
37336	37337	Les Miserables: Pt. 1	2000	NaN	5194.0
39493	39494	The Prophet's Game	2000	3.2	6486.0

137 rows × 5 columns

In [ ]:

```
data.tail(50)
```

In [ ]:

```
rate=data.loc[(data.rating>=3)&(data.year>2000)&(data.year<=2010)]
rate
```

In [ ]:

```
data4=data.sort_values("time")
```

In [ ]:

```
data4.head(5)
```

In [ ]:

```

```