

```
In [2]: import pandas as pd  
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(5)
```

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(5)
```

```
Out[5]:
```

| | srno | movie | year | rating | time |
|-------|-------|---|------|--------|--------|
| 49585 | 49586 | Winter Wonderland | 2013 | 2.8 | 1812.0 |
| 49586 | 49587 | Top Gear: Series 19: Africa Special | 2013 | NaN | 6822.0 |
| 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]: data1=data.loc[(data.year==2000)&(data.time>5000)]
```

```
In [7]: data1
```

```
Out[7]:
```

| | 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 [8]: data1=data.loc[(data.time>5000)]
```

```
In [9]: 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 [10]: data.head(100)
```

```
Out[10]:
```

| | 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 |
| ... | ... | ... | ... | ... | ... |
| 95 | 96 | The Hunted | 1995 | 3.4 | 6605.0 |
| 96 | 97 | The Great Waldo Pepper | 1975 | 3.5 | 6467.0 |
| 97 | 98 | Godzilla: King of the Monsters | 1956 | 3.5 | 4828.0 |
| 98 | 99 | Highlander 2: Renegade Version | 1991 | 3.1 | 6585.0 |
| 99 | 100 | High Noon | 1952 | 3.9 | 5087.0 |

100 rows × 5 columns

In [11]: data.head(50)

| | | | | | |
|----|----|---------------------------|------|-----|--------|
| 35 | 36 | Into the Woods | 1990 | 4.0 | 9077.0 |
| 36 | 37 | Joe Kidd | 1972 | 3.7 | 5252.0 |
| 37 | 38 | In Too Deep | 1999 | 3.9 | 5823.0 |
| 38 | 39 | King Kong | 1976 | 3.2 | 8044.0 |
| 39 | 40 | Internal Affairs | 1990 | 3.5 | 6885.0 |
| 40 | 41 | Jesus Christ Superstar | 1973 | 3.6 | 6388.0 |
| 41 | 42 | In the Name of the Father | 1993 | 3.9 | 7972.0 |
| 42 | 43 | Easy Money | 1987 | 2.8 | 5794.0 |
| 43 | 44 | Do the Right Thing | 1989 | 3.6 | 7186.0 |
| 44 | 45 | Days of Heaven | 1978 | 3.4 | 5628.0 |
| 45 | 46 | Drop Zone | 1994 | 3.4 | 6087.0 |
| 46 | 47 | Escape from L.A. | 1996 | 3.3 | 6039.0 |
| 47 | 48 | Emma | 1996 | 3.5 | 7260.0 |

```
In [12]: data.tail(50)
```

```
Out[12]:
```

| | srno | movie | year | rating | time |
|-------|-------|---|------|--------|--------|
| 49540 | 49541 | Life With Boys: Season 1: This Time the Proble... | 2011 | NaN | 1368.0 |
| 49541 | 49542 | Life With Boys: Season 1: In the Principal's O... | 2011 | NaN | 1368.0 |
| 49542 | 49543 | El Fuente: 5994 MP | 2013 | 3.5 | 471.0 |
| 49543 | 49544 | Life With Boys: Season 1: Monkey Talk with Boys | 2011 | NaN | 1368.0 |
| 49544 | 49545 | El Fuente: 50 MP | 2013 | 3.3 | 465.0 |
| 49545 | 49546 | Bo Burnham: what. | 2013 | 4.1 | 3614.0 |
| 49546 | 49547 | Life With Boys: Season 1: A Perfect Life with ... | 2011 | NaN | 1368.0 |
| 49547 | 49548 | Life With Boys: Season 1: Wrestling with Boys | 2011 | NaN | 1369.0 |
| 49548 | 49549 | Life With Boys: Season 1 | 2011 | 4.1 | NaN |
| 49549 | 49550 | El Fuente: 30 MP | 2013 | 3.3 | 471.0 |
| 49550 | 49551 | El Fuente: 2997 MP | 2013 | 3.2 | 471.0 |

```
In [13]: dat1=data.loc[(data.year>2000)&(data.year<=2000)&(data.rating>=4.0)]
```

```
In [14]: datat=data.sort_values("time")
```

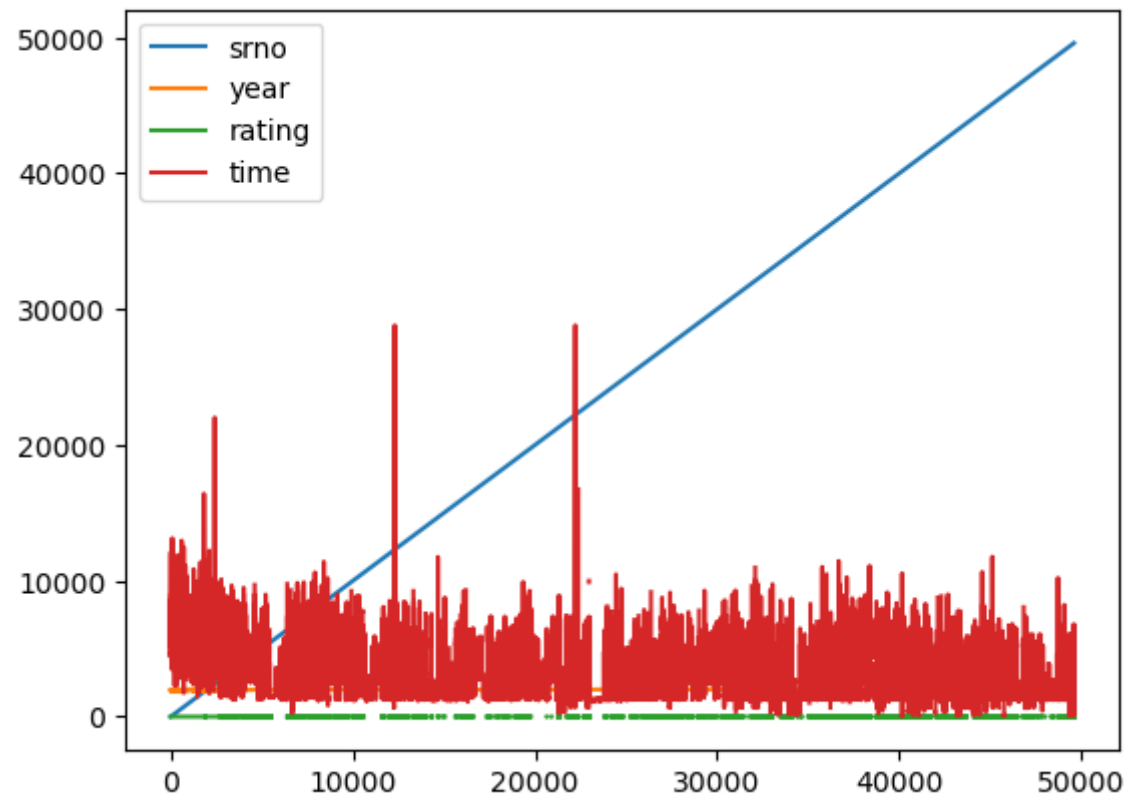
```
In [15]: datat.head(10)
```

```
Out[15]:
```

| | srno | movie | year | rating | time |
|--------------|-------|------------------------|------|--------|------|
| 40150 | 40151 | Trailer: Pain | 2012 | 3.6 | 52.0 |
| 41081 | 41082 | Trailer: Get to Work | 2012 | 3.3 | 55.0 |
| 41082 | 41083 | Trailer: Give and Take | 2012 | 3.3 | 66.0 |
| 43166 | 43167 | Trailer: Emperor | 2013 | 3.1 | 67.0 |
| 43330 | 43331 | Trailer: Blood Angel | 2013 | 4.2 | 69.0 |
| 40149 | 40150 | Trailer: Lift the Veil | 2012 | 3.6 | 69.0 |
| 40789 | 40790 | Trailer: Gray Area | 2012 | 3.7 | 70.0 |
| 40154 | 40155 | Trailer: Cleave | 2012 | 3.5 | 71.0 |
| 43168 | 43169 | Trailer: Masks | 2013 | 4.2 | 73.0 |
| 45745 | 45746 | Trailer: Strip Search | 2013 | 3.6 | 73.0 |

```
In [17]: data.plot()
```

```
Out[17]: <Axes: >
```



In []: