Movies Data

```
In [2]: import pandas as pd

        import numpy as np

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



        ksk.describe()
```

Out[2]:

	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

Head upto 5

In [3]:
```
ksk.head(5)
```

Out[3]:

	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
5	6	One Magic Christmas	1985	3.8	5333.0
6	7	Muriel's Wedding	1994	3.5	6323.0
7	8	Mother's Boys	1994	3.4	5733.0
8	9	Nosferatu: Original Version	1929	3.5	5651.0
9	10	Nick of Time	1995	3.4	5333.0

```
In [ ]:
```

```
In [4]: ksk["movie"]
```

```
Out[4]: 0                              The Nightmare Before
        1                                        The Mummy
        2                             Orphans of the Storm
        3                             The Object of Beauty
        4                                        Night Tide
                                ...
        49585                           Winter Wonderland
        49586          Top Gear: Series 19: Africa Special
        49587    Fireplace For Your Home: Crackling Fireplace w...
        49588                              Kate Plus Ei8ht
        49589                    Kate Plus Ei8ht: Season 1
        Name: movie, Length: 49590, dtype: object
```

```
In [ ]:
```

Tail

```
In [5]: ksk.tail(10)
```

Out[5]:

	srno	movie	year	rating	time
49580	49581	Curious George: A Very Monkey Christmas	2009	3.8	3438.0
49581	49582	Mumfie's White Christmas	1996	2.4	1350.0
49582	49583	Lady Gaga & The Muppets' Holiday Spectacular	2013	3.1	3496.0
49583	49584	Sunset Strip	2012	3.0	5770.0
49584	49585	Silver Bells	2013	3.5	5287.0
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

Time>5000

In [6]:
```python
ksk.loc[ksk.time>5000]
```

Out[6]:

	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 [7]:
```python
ksk.loc[(ksk.rating>=4.5) & (ksk.year>=2000)& (ksk.year<=2010)]
```

Out[7]:

	srno	movie	year	rating	time
6996	6997	Breaking Bad: Season 1	2008	4.5	NaN
8040	8041	Breaking Bad: Season 2	2009	4.5	NaN
12078	12079	Breaking Bad: Season 3	2010	4.5	NaN
13314	13315	Breaking Bad	2008	4.5	NaN
14720	14721	The Walking Dead: Season 1	2010	4.5	NaN
14956	14957	Sherlock: Series 1	2010	4.5	NaN
21910	21911	The Walking Dead	2010	4.5	NaN
26483	26484	Sherlock	2010	4.5	NaN
41845	41846	Fairy Tail: Season 1	2009	4.5	NaN
43070	43071	Fairy Tail	2009	4.5	NaN

In [8]:
```python
ksk.loc[(ksk.movie=="Night Tide")]
```

Out[8]:

	srno	movie	year	rating	time
4	5	Night Tide	1963	2.8	5126.0

Sorting data according to Time

In [9]:
```
ksk.sort_values("time")
```

Out[9]:

	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
...	...	...	...	...	...
49556	49557	Shinobi Girl	2012	2.0	NaN
49561	49562	My Hope America with Billy Graham	2013	3.9	NaN
49565	49566	My Hope America with Billy Graham	2013	3.9	NaN
49588	49589	Kate Plus Ei8ht	2010	2.7	NaN
49589	49590	Kate Plus Ei8ht: Season 1	2010	2.7	NaN

49590 rows × 5 columns

Sorting according to rating

In [10]:
```
ksk.sort_values("rating")
```

Out[10]:

	srno	movie	year	rating	time
40934	40935	Lagegi	2007	1.4	NaN
42115	42116	Sun Yaar Chill Maar	2007	1.4	NaN
40826	40827	Lagegi	2007	1.4	NaN
42160	42161	Sun Yaar Chill Maar	2007	1.4	NaN
41396	41397	Meri Toh Lag Gayi Naukri	2011	1.5	NaN
...	...	...	...	...	...
49563	49564	My Hope America with Billy Graham: Lose to Gain	2013	NaN	1400.0
49576	49577	Barbie: Life in the Dreamhouse: Barbie Life in...	2013	NaN	1390.0
49577	49578	Barbie: Life in the Dreamhouse: Barbie Life in...	2013	NaN	1458.0
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

In [12]:
```
a=ksk.drop(["movie","time"],axis=1)
cor=a.corr()
```

```
In [13]: cor
```

Out[13]:

	srno	year	rating
srno	1.000000	0.401153	0.054288
year	0.401153	1.000000	0.156210
rating	0.054288	0.156210	1.000000

```
In [14]: ksk.isna().sum()
```

```
Out[14]: srno          0
         movie         0
         year          0
         rating    38776
         time       3754
         dtype: int64
```

```
In [15]: ksk.to_csv("mande")
```

```
In [16]: k=pd.read_csv("/home/placement/mande")
```
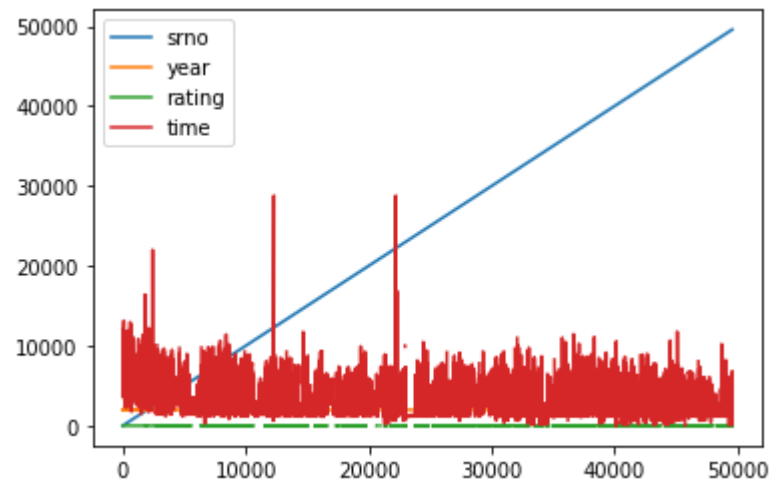
In [17]:
```
k.describe()
```

Out[17]:

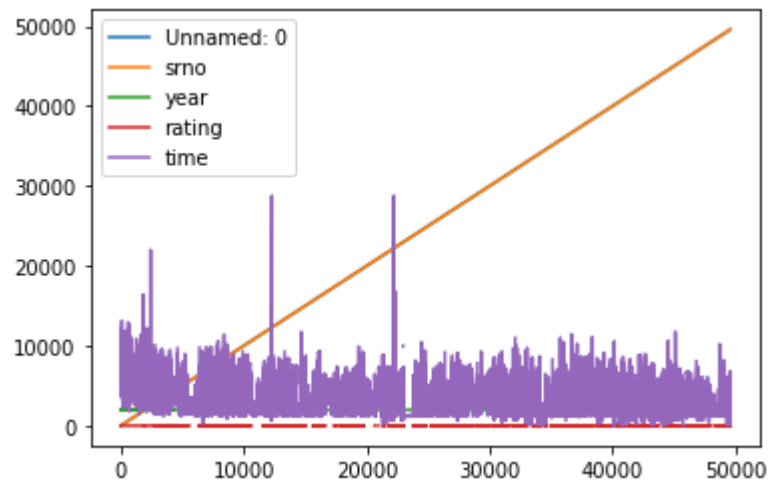|	Unnamed: 0	srno	year	rating	time
count	49590.000000	49590.000000	49590.000000	10814.000000	45836.000000
mean	24794.500000	24795.500000	2002.303428	3.451248	2628.445436
std	14315.544261	14315.544261	12.534555	0.495601	1604.646265
min	0.000000	1.000000	1913.000000	1.400000	52.000000
25%	12397.250000	12398.250000	1999.000000	3.100000	1356.000000
50%	24794.500000	24795.500000	2007.000000	3.500000	2563.000000
75%	37191.750000	37192.750000	2010.000000	3.800000	2877.000000
max	49589.000000	49590.000000	2014.000000	4.500000	28813.000000

Graphical representation

```
In [19]:    import seaborn
            ksk.plot()
```

Out[19]:   <Axes: >

In [20]: k.plot()

Out[20]: <Axes: >

In [21]: k.plot("year")

Out[21]: <Axes: xlabel='year'>