

```
In [1]: import pandas as pd  
data=pd.read_csv("/home/placement/Downloads/movies.csv")
```

```
In [2]: data.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 |

```
In [3]: data2=data.loc[(data.year==2009)]
```

In [4]: data2

Out[4]:

|              | srno  | movie                                   | year | rating | time   |
|--------------|-------|---|------|--------|--------|
| <b>4990</b>  | 4991  | Loose Change 9 11: An American Coup     | 2009 | 3.8    | 5910.0 |
| <b>6563</b>  | 6564  | Chéri                                   | 2009 | 3.0    | 5548.0 |
| <b>6564</b>  | 6565  | The Messenger                           | 2009 | 3.5    | 6778.0 |
| <b>6566</b>  | 6567  | Perrier's Bounty                        | 2009 | 3.3    | 5268.0 |
| <b>6570</b>  | 6571  | Cook County                             | 2009 | 3.5    | 5638.0 |
| ...          | ...   | ...                                     | ...  | ...    | ...    |
| <b>48844</b> | 48845 | Gang Wars                               | 2009 | 3.6    | NaN    |
| <b>48852</b> | 48853 | Monsters Inside Me                      | 2009 | 3.8    | NaN    |
| <b>48854</b> | 48855 | Pit Bulls & Parolees                    | 2009 | 4.3    | NaN    |
| <b>49498</b> | 49499 | Chanbara Beauty: The Movie - Vortex     | 2009 | 2.4    | 5314.0 |
| <b>49580</b> | 49581 | Curious George: A Very Monkey Christmas | 2009 | 3.8    | 3438.0 |

4451 rows × 5 columns

In [5]: data.head()

Out[5]:

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

```
In [6]: data3=data.loc[(data.time>5000)]
data3
```

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]: data4=data.loc[(data.year==2000) & (data.time>5000)]
data4
```

Out[7]:

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

137 rows × 5 columns

```
In [8]: data.head(50)
```

```
Out[8]:
```

|    | 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  |
| 10 | 11   | Broken Blossoms                 | 1919 | 3.3    | 5367.0  |
| 11 | 12   | Big Night                       | 1996 | 3.6    | 6561.0  |
| 12 | 13   | The Birth of a Nation           | 1915 | 2.9    | 12118.0 |
| 13 | 14   | The Boys from Brazil            | 1978 | 3.6    | 7417.0  |
| 14 | 15   | Big Doll House                  | 1971 | 2.9    | 5696.0  |
| 15 | 16   | The Breakfast Club              | 1985 | 4.0    | 5823.0  |
| 16 | 17   | The Bride of Frankenstein       | 1935 | 3.7    | 4485.0  |
| 17 | 18   | Beautiful Girls                 | 1996 | 3.5    | 6755.0  |
| 18 | 19   | Bustin' Loose                   | 1981 | 3.7    | 5598.0  |
| 19 | 20   | The Beguiled                    | 1971 | 3.4    | 6307.0  |
| 20 | 21   | Born on the Fourth of July      | 1989 | 3.4    | 8646.0  |
| 21 | 22   | Broadcast News                  | 1987 | 3.4    | 7940.0  |
| 22 | 23   | Swimming with Sharks            | 1994 | 3.3    | 5586.0  |
| 23 | 24   | Beavis and Butt-head Do America | 1996 | 3.4    | 4852.0  |

|    | srno | movie   | year | rating | time   |
|----|------|---|------|--------|--------|
| 24 | 25   | Brighton Beach Memoirs                        | 1986 | 3.4    | 6564.0 |
| 25 | 26   | The Best of Times                             | 1986 | 3.4    | 6247.0 |
| 26 | 27   | Brassed Off                                   | 1996 | 3.5    | 6040.0 |
| 27 | 28   | Last Tango in Paris                           | 1972 | 3.1    | 7732.0 |
| 28 | 29   | Leprechaun 2                                  | 1994 | 3.2    | 5125.0 |
| 29 | 30   | Incident at Oglala: The Leonard Peltier Story | 1992 | 3.7    | 5487.0 |
| 30 | 31   | Kalifornia                                    | 1993 | 3.4    | 7095.0 |
| 31 | 32   | The Lady Vanishes                             | 1938 | 3.7    | 5762.0 |
| 32 | 33   | Jingle All the Way                            | 1996 | 3.6    | 5371.0 |
| 33 | 34   | Killing Zoe                                   | 1993 | 3.4    | 5773.0 |
| 34 | 35   | King of Beggars                               | 1992 | 3.6    | 6025.0 |
| 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 |
| 48 | 49   | Disco Godfather                               | 1979 | 3.0    | 5869.0 |
| 49 | 50   | The Eiger Sanction                            | 1975 | 3.5    | 7726.0 |



In [9]: `data.tail(50)`

Out[9]:

|       | 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  |
| 49551 | 49552 | El Fuente: 25 MP                                  | 2013 | 3.3    | 465.0  |
| 49552 | 49553 | El Fuente: 24 MP                                  | 2013 | 3.5    | 484.0  |
| 49553 | 49554 | Max Steel   | 2013 | 4.1    | NaN    |
| 49554 | 49555 | Saving Santa                                      | 2013 | 3.8    | 5038.0 |
| 49555 | 49556 | Lilyhammer: Season 1 (Recap)                      | 2013 | 4.2    | 194.0  |
| 49556 | 49557 | Shinobi Girl                                      | 2012 | 2.0    | NaN    |
| 49557 | 49558 | GLOW: The Story of the Gorgeous Ladies of Wres... | 2012 | 3.7    | 4593.0 |
| 49558 | 49559 | Mitt (Trailer)                                    | 2013 | 3.0    | 138.0  |
| 49559 | 49560 | My Hope America with Billy Graham: The Cross      | 2013 | NaN    | 1706.0 |
| 49560 | 49561 | The Square (Trailer)                              | 2014 | 3.6    | 154.0  |
| 49561 | 49562 | My Hope America with Billy Graham                 | 2013 | 3.9    | NaN    |
| 49562 | 49563 | My Hope America with Billy Graham: Defining Mo... | 2013 | NaN    | 1791.0 |
| 49563 | 49564 | My Hope America with Billy Graham: Lose to Gain   | 2013 | NaN    | 1400.0 |



|       | srno  | movie   | year | rating | time   |
|-------|-------|---|------|--------|--------|
| 49564 | 49565 | American Addict                                   | 2013 | 3.5    | 5377.0 |
| 49565 | 49566 | My Hope America with Billy Graham                 | 2013 | 3.9    | NaN    |
| 49566 | 49567 | El Fuente: 2997 MP10                              | 2013 | 2.7    | 470.0  |
| 49567 | 49568 | El Fuente: 25 MP10                                | 2013 | 2.9    | 464.0  |
| 49568 | 49569 | El Fuente: 24 MP10                                | 2013 | 2.8    | 484.0  |
| 49569 | 49570 | El Fuente: 23976 MP10                             | 2013 | 2.9    | 484.0  |
| 49570 | 49571 | The Short Game (Trailer)                          | 2013 | 4.1    | 156.0  |
| 49571 | 49572 | El Fuente: 5994 MP10                              | 2013 | 2.8    | 471.0  |
| 49572 | 49573 | El Fuente: 50 MP10                                | 2013 | 2.9    | 464.0  |
| 49573 | 49574 | El Fuente: 30 MP10                                | 2013 | 2.8    | 470.0  |
| 49574 | 49575 | Greg Fitzsimmons: Life on Stage                   | 2013 | 3.3    | 3671.0 |
| 49575 | 49576 | Dave Foley: Relatively Well                       | 2013 | 3.2    | 3446.0 |
| 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 |
| 49578 | 49579 | Transformers Prime Beast Hunters: Predacons Ri... | 2013 | 4.2    | 3950.0 |
| 49579 | 49580 | Underground: The Julian Assange Story             | 2012 | 3.7    | 5665.0 |
| 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 &#38; 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    |

```
In [10]: data5=data.loc[(data.rating>3) & (data.year>=2000) & (data.year<=2010)]
data5
```

Out[10]:

|       | 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 |
| 431   | 432   | The Tigger Movie                        | 2000 | 3.5    | 4626.0 |
| 437   | 438   | Requiem for a Dream                     | 2000 | 3.9    | 6087.0 |
| ...   | ...   | ...                                     | ...  | ...    | ...    |
| 49300 | 49301 | Signing Time                            | 2007 | 3.8    | NaN    |
| 49320 | 49321 | Dave Gorman Stand-Up. Live.             | 2010 | 3.4    | 5090.0 |
| 49334 | 49335 | Signing Time: Collection 1              | 2007 | 3.8    | NaN    |
| 49394 | 49395 | A Liga                                  | 2010 | 3.8    | NaN    |
| 49580 | 49581 | Curious George: A Very Monkey Christmas | 2009 | 3.8    | 3438.0 |

4263 rows × 5 columns

```
In [11]: datat=data.sort_values('time')
datat
```

Out[11]:

|       | 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

```
In [12]: datar=data.sort_values('rating')
          datar
```

Out[12]:

|       | 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 |

49590 rows × 5 columns

```
In [13]: datay=data.sort_values('year')
datay
```

Out[13]:

|              | srno  | movie  | year | rating | time   |
|--------------|-------|--|------|--------|--------|
| <b>42670</b> | 42671 | Fantômas II: Juve vs. Fantômas               | 1913 | 2.7    | 3718.0 |
| <b>42664</b> | 42665 | Fantômas I: In the Shadow of the Guillotine  | 1913 | 2.9    | 3268.0 |
| <b>14327</b> | 14328 | Fantômas III: The Murderous Corpse           | 1913 | 2.6    | 5432.0 |
| <b>42672</b> | 42673 | Fantômas V: The False Magistrate             | 1914 | 2.4    | 4247.0 |
| <b>609</b>   | 610   | Cabiria                                      | 1914 | 2.9    | 7684.0 |
| ...          | ...   | ...  | ...  | ...    | ...    |
| <b>47906</b> | 47907 | Twisted: Season 1: Three for the Road        | 2013 | NaN    | 2626.0 |
| <b>47907</b> | 47908 | Twisted: Season 1: Sleeping with the Frenemy | 2013 | NaN    | 2624.0 |
| <b>47901</b> | 47902 | Twisted: Season 1: The Truth Will Out        | 2013 | NaN    | 2627.0 |
| <b>47359</b> | 47360 | Eve of Destruction                           | 2013 | 3.3    | NaN    |
| <b>49560</b> | 49561 | The Square (Trailer)                         | 2014 | 3.6    | 154.0  |

49590 rows × 5 columns

```
In [14]: import pymysql
```

```
In [15]: x=pymysql.connect(user='root',host='localhost',password='Password@123',database='project1')
cr=x.cursor()
```

```
In [16]: cr.execute('insert into data1(id,name,mob,dept) values(1,"jyothi",4577856,3)')
```

Out[16]: 1

```
In [17]: print("success")  
x.commit()  
x.close()
```

success

```
In [ ]:
```