```
In [1]:
            1 import pandas as pd
            2 import numpy as np
In [2]:
            1 data=pd.read csv("/home/placement/Downloads/movies.csv")
In [3]:
            1 data.describe()
            2
Out[3]:
                         srno
                                      year
                                                  rating
                                                                time
           count 49590.000000
                              49590.000000 10814.000000
                                                        45836.000000
           mean 24795.500000
                               2002.303428
                                               3.451248
                                                         2628.445436
                14315.544261
                                 12.534555
                                               0.495601
                                                         1604.646265
             std
                                               1.400000
            min
                     1.000000
                               1913.000000
                                                           52.000000
                 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]:
            1 data.head(5)
Out[4]:
                               movie year rating
              srno
                                                    time
                1 The Nightmare Before 1993
           0
                                              3.9
                                                  4568.0
                           The Mummy 1932
                                              3.5 4388.0
           1
                3 Orphans of the Storm 1921
           2
                                              3.2 9062.0
                4 The Object of Beauty 1991
                                              2.8 6150.0
           3
                            Night Tide 1963
                5
                                              2.8 5126.0
```

In [5]:

- 1 data1=data.loc[data.time>5000]
- 2 data1

Out[5]:

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
495	64	49565	American Addict	2013	3.5	5377.0
495	79	49580	Underground: The Julian Assange Story	2012	3.7	5665.0
495	83	49584	Sunset Strip	2012	3.0	5770.0
495	84	49585	Silver Bells	2013	3.5	5287.0
495	86	49587	Top Gear: Series 19: Africa Special	2013	NaN	6822.0

5897 rows × 5 columns

In [7]:

- data1=data.loc[(data.time>5000)&(data.year==2000)]
- 2 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]:

1 data.tail(50)

Out[8]:

	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

	srno	movie	year	rating	time	
49563	49564	My Hope America with Billy Graham: Lose to Gain	2013	NaN	1400.0	
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 & 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	

		srno	mov	rie ye	ar ratir	r rating tim	
In [9]:	1 da	ata.ta	nil(5)				
Out[9]:		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	
<pre>In [10]: Out[10]:</pre>	1 da 2 da		lata.loc[(data.rating>4)&(data.yean movie year rating	ar==2	010 20	911)]	
	12268	12269		6490.0			

srno		srno	movie	year	rating	time
-	12268	12269	Ip Man 2	2011	4.3	6490.0
	12877	12878	Warrior	2011	4.4	8393.0
	13007	13008	Breakout Kings: Season 1	2011	4.1	NaN
	13346	13347	The Chicago Code: Season 1	2011	4.2	NaN
	14953	14954	United States of Tara: Season 3	2011	4.1	NaN
	48845	48846	Gator Boys	2011	4.1	NaN
	48859	48860	Too Cute!	2011	4.3	NaN
	48866	48867	Alaska: The Last Frontier	2011	4.1	NaN
	49504	49505	Life With Boys	2011	4.1	NaN
	49548	49549	Life With Boys: Season 1	2011	4.1	NaN

157 rows × 5 columns

```
1 data1=data.loc[(data.ratings>=3)&(data.year>2000)&(data.year==2000)]
In [12]:
         AttributeError
                                                   Traceback (most recent call last)
         <ipython-input-12-7e13bf0f4ad9> in <module>
         ----> 1 data1=data.loc[(data.ratings>=3)&(data.year>2000)&(data.year==2000)]
         ~/.local/lib/python3.8/site-packages/pandas/core/generic.py in getattr (self, name)
            5987
            5988
                             return self[name]
         -> 5989
                         return object. getattribute (self, name)
            5990
            5991
                     def setattr (self, name: str, value) -> None:
         AttributeError: 'DataFrame' object has no attribute 'ratings'
```

In [14]:

- 1 data=data.sort_values('time')
 2 data1

Out[14]:

srno		movie	year	rating	time
12268	12269	lp Man 2	2011	4.3	6490.0
12877	12878	Warrior	2011	4.4	8393.0
13007	13008	Breakout Kings: Season 1	2011	4.1	NaN
13346	13347	The Chicago Code: Season 1	2011	4.2	NaN
14953	14954	United States of Tara: Season 3	2011	4.1	NaN
48845	48846	Gator Boys	2011	4.1	NaN
48859	48860	Too Cute!	2011	4.3	NaN
48866	48867	Alaska: The Last Frontier	2011	4.1	NaN
49504	49505	Life With Boys	2011	4.1	NaN
49548	49549	Life With Boys: Season 1	2011	4.1	NaN

157 rows × 5 columns

In [17]:

In [18]:

1 **import** pymysql

pymysql pgm

1 print("pymysql pgm")

```
In [15]:
            1 data.head(10)
Out[15]:
                   srno
                                    movie year rating time
            40150 40151
                                Trailer: Pain 2012
                                                   3.6 52.0
                           Trailer: Get to Work 2012
            41081 41082
                                                   3.3 55.0
            41082 41083 Trailer: Give and Take 2012
                                                   3.3 66.0
            43166 43167
                             Trailer: Emperor 2013
                                                   3.1 67.0
                           Trailer: Blood Angel 2013
            43330 43331
                                                   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
                              Trailer: Cleave 2012
            40154 40155
                                                   3.5 71.0
            43168 43169
                               Trailer: Masks 2013
                                                   4.2 73.0
            45745 45746
                          Trailer: Strip Search 2013
                                                   3.6 73.0
In [16]:
            1 !pip3 install pymysql
           Collecting pymysql
             Downloading PyMySQL-1.0.3-py3-none-any.whl (43 kB)
                                                           43 kB 250 kB/s eta 0:00:011
           Installing collected packages: pymysql
           Successfully installed pymysql-1.0.3
```

```
1 conn = pymysql.connect(user='root',host='localhost',passwd='1234')
In [21]:
         Operational Error
                                                    Traceback (most recent call last)
         <ipython-input-21-0c30d8095308> in <module>
         ----> 1 conn = pymysql.connect(user='root',host='localhost',passwd='1234')
         ~/.local/lib/python3.8/site-packages/pymysql/connections.py in init (self, user, password, host, databa
         se, unix socket, port, charset, sql mode, read default file, conv, use unicode, client flag, cursorclass,
         init command, connect timeout, read default group, autocommit, local infile, max allowed packet, defer con
         nect, auth plugin map, read timeout, write timeout, bind address, binary prefix, program name, server publ
         ic key, ssl, ssl ca, ssl cert, ssl disabled, ssl key, ssl verify cert, ssl verify identity, compress, name
         d pipe, passwd, db)
             350
                             self. sock = None
             351
                         else:
         --> 352
                             self.connect()
             353
             354
                     def enter (self):
         ~/.local/lib/python3.8/site-packages/pymysql/connections.py in connect(self, sock)
             634
             635
                             self. get server information()
                             self. request authentication()
         --> 636
             637
             638
                             if self.sql mode is not None:
         ~/.local/lib/python3.8/site-packages/pymysql/connections.py in request authentication(self)
             909
             910
                         self.write packet(data)
         --> 911
                         auth packet = self. read packet()
             912
             913
                         # if authentication method isn't accepted the first byte
         ~/.local/lib/python3.8/site-packages/pymysql/connections.py in read packet(self, packet type)
                             if self. result is not None and self. result.unbuffered active is True:
             727
             728
                                 self. result.unbuffered active = False
         --> 729
                             packet.raise for error()
             730
                         return packet
             731
```

```
~/.local/lib/python3.8/site-packages/pymysql/protocol.py in raise for error(self)
             219
                         if DEBUG:
             220
                             print("errno =", errno)
         --> 221
                         err.raise mysql exception(self. data)
             222
             223
                     def dump(self):
         ~/.local/lib/python3.8/site-packages/pymysql/err.py in raise mysql exception(data)
                     if errorclass is None:
             141
                         errorclass = InternalError if errno < 1000 else OperationalError
             142
                     raise errorclass(errno, errval)
         --> 143
         OperationalError: (1698, "Access denied for user 'root'@'localhost'")
In [22]:
          1 import pymysql
          1 x=pymysql.connect(host='localhost',user='root',Password='Password@123,database='project1')
In [23]:
          2 cr=x.cursor()
           File "<ipython-input-23-97a07bf1f0c3>", line 1
             x=pymysql.connect(host='localhost',user='root',Password='Password@123,database='project1')
         SyntaxError: invalid syntax
          1 !pip3 install pymysgl
In [24]:
         Requirement already satisfied: pymysql in ./.local/lib/python3.8/site-packages (1.0.3)
In [25]:
          1 import pymysql
          1 x=pymysql.connect(host='localhost',user='root',password='Password@123',database='project1')
In [27]:
           2 cr=x.cursor()
```