```python
from google.colab import drive
drive.mount('/content/MyDrive/')
```

```
Mounted at /content/MyDrive/
```

```python
!pip install surprise
```

```
Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/c
olab-wheels/public/simple/
Collecting surprise
  Downloading surprise-0.1-py2.py3-none-any.whl (1.8 kB)
Collecting scikit-surprise
  Downloading scikit-surprise-1.1.1.tar.gz (11.8 MB)
     |████████████████████████████████| 11.8 MB 4.0 MB/s
Requirement already satisfied: joblib>=0.11 in /usr/local/lib/python3.7/
dist-packages (from scikit-surprise->surprise) (1.1.0)
Requirement already satisfied: numpy>=1.11.2 in /usr/local/lib/python3.7
/dist-packages (from scikit-surprise->surprise) (1.21.6)
Requirement already satisfied: scipy>=1.0.0 in /usr/local/lib/python3.7/
dist-packages (from scikit-surprise->surprise) (1.7.3)
Requirement already satisfied: six>=1.10.0 in /usr/local/lib/python3.7/d
ist-packages (from scikit-surprise->surprise) (1.15.0)
Building wheels for collected packages: scikit-surprise
  Building wheel for scikit-surprise (setup.py) ... done
  Created wheel for scikit-surprise: filename=scikit_surprise-1.1.1-cp37
-cp37m-linux_x86_64.whl size=1633719 sha256=f4a8d39c8dee8c0f210ab522d267
3e0226ff9a38071e99a4442cc0358d7040b2
  Stored in directory: /root/.cache/pip/wheels/76/44/74/b498c42be47b2406
bd27994e16c5188e337c657025ab400c1c
Successfully built scikit-surprise
Installing collected packages: scikit-surprise, surprise
Successfully installed scikit-surprise-1.1.1 surprise-0.1
```

```python
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
import surprise
pd.set_option('display.max_columns',None)
pd.set_option('display.max_rows',None)
%matplotlib inline
```

```python
data = pd.read_csv('/content/MyDrive/MyDrive/Amazon - Movies and TV Ratin
gs.csv')
```

```python
data.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 4848 entries, 0 to 4847
Columns: 207 entries, user_id to Movie206
dtypes: float64(206), object(1)
memory usage: 7.7+ MB
```

In [ ]: ```
data.isnull().any()
```

```
Out[ ]:  user_id     False
         Movie1      True
         Movie2      True
         Movie3      True
         Movie4      True
         Movie5      True
         Movie6      True
         Movie7      True
         Movie8      True
         Movie9      True
         Movie10     True
         Movie11     True
         Movie12     True
         Movie13     True
         Movie14     True
         Movie15     True
         Movie16     True
         Movie17     True
         Movie18     True
         Movie19     True
         Movie20     True
         Movie21     True
         Movie22     True
         Movie23     True
         Movie24     True
         Movie25     True
         Movie26     True
         Movie27     True
         Movie28     True
         Movie29     True
         Movie30     True
         Movie31     True
         Movie32     True
         Movie33     True
         Movie34     True
         Movie35     True
         Movie36     True
         Movie37     True
         Movie38     True
         Movie39     True
         Movie40     True
         Movie41     True
         Movie42     True
         Movie43     True
         Movie44     True
         Movie45     True
         Movie46     True
         Movie47     True
         Movie48     True
         Movie49     True
         Movie50     True
         Movie51     True
         Movie52     True
         Movie53     True
         Movie54     True
         Movie55     True
         Movie56     True
         Movie57     True
         Movie58     True
         Movie59     True
```

```
Movie60     True
Movie61     True
Movie62     True
Movie63     True
Movie64     True
Movie65     True
Movie66     True
Movie67     True
Movie68     True
Movie69     True
Movie70     True
Movie71     True
Movie72     True
Movie73     True
Movie74     True
Movie75     True
Movie76     True
Movie77     True
Movie78     True
Movie79     True
Movie80     True
Movie81     True
Movie82     True
Movie83     True
Movie84     True
Movie85     True
Movie86     True
Movie87     True
Movie88     True
Movie89     True
Movie90     True
Movie91     True
Movie92     True
Movie93     True
Movie94     True
Movie95     True
Movie96     True
Movie97     True
Movie98     True
Movie99     True
Movie100    True
Movie101    True
Movie102    True
Movie103    True
Movie104    True
Movie105    True
Movie106    True
Movie107    True
Movie108    True
Movie109    True
Movie110    True
Movie111    True
Movie112    True
Movie113    True
Movie114    True
Movie115    True
Movie116    True
Movie117    True
Movie118    True
Movie119    True
```

```
Movie120     True
Movie121     True
Movie122     True
Movie123     True
Movie124     True
Movie125     True
Movie126     True
Movie127     True
Movie128     True
Movie129     True
Movie130     True
Movie131     True
Movie132     True
Movie133     True
Movie134     True
Movie135     True
Movie136     True
Movie137     True
Movie138     True
Movie139     True
Movie140     True
Movie141     True
Movie142     True
Movie143     True
Movie144     True
Movie145     True
Movie146     True
Movie147     True
Movie148     True
Movie149     True
Movie150     True
Movie151     True
Movie152     True
Movie153     True
Movie154     True
Movie155     True
Movie156     True
Movie157     True
Movie158     True
Movie159     True
Movie160     True
Movie161     True
Movie162     True
Movie163     True
Movie164     True
Movie165     True
Movie166     True
Movie167     True
Movie168     True
Movie169     True
Movie170     True
Movie171     True
Movie172     True
Movie173     True
Movie174     True
Movie175     True
Movie176     True
Movie177     True
Movie178     True
Movie179     True
```

```
                   Movie180      True
                   Movie181      True
                   Movie182      True
                   Movie183      True
                   Movie184      True
                   Movie185      True
                   Movie186      True
                   Movie187      True
                   Movie188      True
                   Movie189      True
                   Movie190      True
                   Movie191      True
                   Movie192      True
                   Movie193      True
                   Movie194      True
                   Movie195      True
                   Movie196      True
                   Movie197      True
                   Movie198      True
                   Movie199      True
                   Movie200      True
                   Movie201      True
                   Movie202      True
                   Movie203      True
                   Movie204      True
                   Movie205      True
                   Movie206      True
                   dtype: bool
```

In [ ]: `data.shape`

Out[ ]: (4848, 207)

```
In [ ]:  for column in data:
           print(f'{column}: {data[column].unique()}')
           print(f'Total No.of.unique : {data[column].nunique()}')
           print('*************************************************************
         ***************************************')
```

```
user_id: ['A3R5OBKS7OM2IR' 'AH3QC2PC1VTGP' 'A3LKP6WPMP9UKX' ... 'A5HG6WF
ZLO10D'
 'A3UU690TWXCG1X' 'AI4J762YI6S06']
Total No.of.unique : 4848
*********************************************************************
*****************************
Movie1: [ 5. nan]
Total No.of.unique : 1
*********************************************************************
*****************************
Movie2: [ 5. nan]
Total No.of.unique : 1
*********************************************************************
*****************************
Movie3: [nan  2.]
Total No.of.unique : 1
*********************************************************************
*****************************
Movie4: [nan  5.]
Total No.of.unique : 1
*********************************************************************
*****************************
Movie5: [nan  5.  2.  1.  4.]
Total No.of.unique : 4
*********************************************************************
*****************************
Movie6: [nan  4.]
Total No.of.unique : 1
*********************************************************************
*****************************
Movie7: [nan  5.]
Total No.of.unique : 1
*********************************************************************
*****************************
Movie8: [nan  5.]
Total No.of.unique : 1
*********************************************************************
*****************************
Movie9: [nan  5.]
Total No.of.unique : 1
*********************************************************************
*****************************
Movie10: [nan  5.]
Total No.of.unique : 1
*********************************************************************
*****************************
Movie11: [nan  5.]
Total No.of.unique : 1
*********************************************************************
*****************************
Movie12: [nan  5.]
Total No.of.unique : 1
*********************************************************************
*****************************
Movie13: [nan  5.]
Total No.of.unique : 1
*********************************************************************
*****************************
Movie14: [nan  4.]
Total No.of.unique : 1
```

```
*************************************************************************
*****************************
Movie15: [nan  5.]
Total No.of.unique : 1
*************************************************************************
*****************************
Movie16: [nan  5.  4.  3.  1.  2.]
Total No.of.unique : 5
*************************************************************************
*****************************
Movie17: [nan  3.]
Total No.of.unique : 1
*************************************************************************
*****************************
Movie18: [nan  5.]
Total No.of.unique : 1
*************************************************************************
*****************************
Movie19: [nan  2.  5.]
Total No.of.unique : 2
*************************************************************************
*****************************
Movie20: [nan  3.]
Total No.of.unique : 1
*************************************************************************
*****************************
Movie21: [nan  5.]
Total No.of.unique : 1
*************************************************************************
*****************************
Movie22: [nan  5.]
Total No.of.unique : 1
*************************************************************************
*****************************
Movie23: [nan  5.]
Total No.of.unique : 1
*************************************************************************
*****************************
Movie24: [nan  5.  2.]
Total No.of.unique : 2
*************************************************************************
*****************************
Movie25: [nan  5.]
Total No.of.unique : 1
*************************************************************************
*****************************
Movie26: [nan  4.  1.]
Total No.of.unique : 2
*************************************************************************
*****************************
Movie27: [nan  5.]
Total No.of.unique : 1
*************************************************************************
*****************************
Movie28: [nan  2.  3.  5.]
Total No.of.unique : 3
*************************************************************************
*****************************
Movie29: [nan  5.  4.  2.  1.  3.]
Total No.of.unique : 5
```

```
**************************************************************************
*****************************
Movie30: [nan  4.   5.]
Total No.of.unique : 2
**************************************************************************
*****************************
Movie31: [nan  5.]
Total No.of.unique : 1
**************************************************************************
*****************************
Movie32: [nan  4.   5.]
Total No.of.unique : 2
**************************************************************************
*****************************
Movie33: [nan  5.]
Total No.of.unique : 1
**************************************************************************
*****************************
Movie34: [nan  5.]
Total No.of.unique : 1
**************************************************************************
*****************************
Movie35: [nan  5.]
Total No.of.unique : 1
**************************************************************************
*****************************
Movie36: [nan  5.]
Total No.of.unique : 1
**************************************************************************
*****************************
Movie37: [nan  5.]
Total No.of.unique : 1
**************************************************************************
*****************************
Movie38: [nan  5.]
Total No.of.unique : 1
**************************************************************************
*****************************
Movie39: [nan  5.]
Total No.of.unique : 1
**************************************************************************
*****************************
Movie40: [nan  5.]
Total No.of.unique : 1
**************************************************************************
*****************************
Movie41: [nan  5.]
Total No.of.unique : 1
**************************************************************************
*****************************
Movie42: [nan  5.]
Total No.of.unique : 1
**************************************************************************
*****************************
Movie43: [nan  5.   4.]
Total No.of.unique : 2
**************************************************************************
*****************************
Movie44: [nan  5.]
Total No.of.unique : 1
```

```
*************************************************************************
******************************
Movie45: [nan  1.]
Total No.of.unique : 1
*************************************************************************
******************************
Movie46: [nan  5.]
Total No.of.unique : 1
*************************************************************************
******************************
Movie47: [nan  5.]
Total No.of.unique : 1
*************************************************************************
******************************
Movie48: [nan  5.]
Total No.of.unique : 1
*************************************************************************
******************************
Movie49: [nan  5.]
Total No.of.unique : 1
*************************************************************************
******************************
Movie50: [nan  5.]
Total No.of.unique : 1
*************************************************************************
******************************
Movie51: [nan  4.  5.]
Total No.of.unique : 2
*************************************************************************
******************************
Movie52: [nan  2.  4.  3.  5.  1.]
Total No.of.unique : 5
*************************************************************************
******************************
Movie53: [nan  1.  4.]
Total No.of.unique : 2
*************************************************************************
******************************
Movie54: [nan  5.]
Total No.of.unique : 1
*************************************************************************
******************************
Movie55: [nan  5.]
Total No.of.unique : 1
*************************************************************************
******************************
Movie56: [nan  5.]
Total No.of.unique : 1
*************************************************************************
******************************
Movie57: [nan  5.]
Total No.of.unique : 1
*************************************************************************
******************************
Movie58: [nan  1.]
Total No.of.unique : 1
*************************************************************************
******************************
Movie59: [nan  2.]
Total No.of.unique : 1
```

```
*************************************************************************
*****************************
Movie60: [nan  1.]
Total No.of.unique : 1
*************************************************************************
*****************************
Movie61: [nan  5.]
Total No.of.unique : 1
*************************************************************************
*****************************
Movie62: [nan  1.  5.]
Total No.of.unique : 2
*************************************************************************
*****************************
Movie63: [nan  5.]
Total No.of.unique : 1
*************************************************************************
*****************************
Movie64: [nan  3.]
Total No.of.unique : 1
*************************************************************************
*****************************
Movie65: [nan  5.]
Total No.of.unique : 1
*************************************************************************
*****************************
Movie66: [nan  5.]
Total No.of.unique : 1
*************************************************************************
*****************************
Movie67: [nan  1.]
Total No.of.unique : 1
*************************************************************************
*****************************
Movie68: [nan  5.]
Total No.of.unique : 1
*************************************************************************
*****************************
Movie69: [nan  1.]
Total No.of.unique : 1
*************************************************************************
*****************************
Movie70: [nan  5.]
Total No.of.unique : 1
*************************************************************************
*****************************
Movie71: [nan  4.]
Total No.of.unique : 1
*************************************************************************
*****************************
Movie72: [nan  5.]
Total No.of.unique : 1
*************************************************************************
*****************************
Movie73: [nan  2.]
Total No.of.unique : 1
*************************************************************************
*****************************
Movie74: [nan  5.]
Total No.of.unique : 1
```

```
****************************************************************************
*****************************
Movie75: [nan  5.]
Total No.of.unique : 1
****************************************************************************
*****************************
Movie76: [nan  5.]
Total No.of.unique : 1
****************************************************************************
*****************************
Movie77: [nan  5.]
Total No.of.unique : 1
****************************************************************************
*****************************
Movie78: [nan  5.]
Total No.of.unique : 1
****************************************************************************
*****************************
Movie79: [nan  5.]
Total No.of.unique : 1
****************************************************************************
*****************************
Movie80: [nan  4.]
Total No.of.unique : 1
****************************************************************************
*****************************
Movie81: [nan  5.  4.  1.]
Total No.of.unique : 3
****************************************************************************
*****************************
Movie82: [nan  5.]
Total No.of.unique : 1
****************************************************************************
*****************************
Movie83: [nan  3.]
Total No.of.unique : 1
****************************************************************************
*****************************
Movie84: [nan  5.]
Total No.of.unique : 1
****************************************************************************
*****************************
Movie85: [nan  5.]
Total No.of.unique : 1
****************************************************************************
*****************************
Movie86: [nan  5.  3.  4.  1.]
Total No.of.unique : 4
****************************************************************************
*****************************
Movie87: [nan  5.]
Total No.of.unique : 1
****************************************************************************
*****************************
Movie88: [nan  4.]
Total No.of.unique : 1
****************************************************************************
*****************************
Movie89: [nan  5.  4.  2.  1.  3.]
Total No.of.unique : 5
```

```
*************************************************************************
*****************************
Movie90: [nan  4.  1.  5.  2.]
Total No.of.unique : 4
*************************************************************************
*****************************
Movie91: [nan  5.  3.  2.  4.  1.]
Total No.of.unique : 5
*************************************************************************
*****************************
Movie92: [nan  5.  3.  4.  2.]
Total No.of.unique : 4
*************************************************************************
*****************************
Movie93: [nan  5.]
Total No.of.unique : 1
*************************************************************************
*****************************
Movie94: [nan  5.  4.]
Total No.of.unique : 2
*************************************************************************
*****************************
Movie95: [nan  5.  3.  1.]
Total No.of.unique : 3
*************************************************************************
*****************************
Movie96: [nan  5.]
Total No.of.unique : 1
*************************************************************************
*****************************
Movie97: [nan  5.  4.]
Total No.of.unique : 2
*************************************************************************
*****************************
Movie98: [nan  5.]
Total No.of.unique : 1
*************************************************************************
*****************************
Movie99: [nan  5.  3.]
Total No.of.unique : 2
*************************************************************************
*****************************
Movie100: [nan  4.]
Total No.of.unique : 1
*************************************************************************
*****************************
Movie101: [nan  5.]
Total No.of.unique : 1
*************************************************************************
*****************************
Movie102: [nan  5.  3.]
Total No.of.unique : 2
*************************************************************************
*****************************
Movie103: [nan  5.  4.  1.  3.]
Total No.of.unique : 4
*************************************************************************
*****************************
Movie104: [nan  5.  4.]
Total No.of.unique : 2
```

```
*************************************************************************
******************************
Movie105: [nan  5.]
Total No.of.unique : 1
*************************************************************************
******************************
Movie106: [nan  5.]
Total No.of.unique : 1
*************************************************************************
******************************
Movie107: [nan  5.  1.  4.  2.  3.]
Total No.of.unique : 5
*************************************************************************
******************************
Movie108: [nan  5.  3.  4.  1.]
Total No.of.unique : 4
*************************************************************************
******************************
Movie109: [nan  2.  5.  4.  3.]
Total No.of.unique : 4
*************************************************************************
******************************
Movie110: [nan  5.  4.]
Total No.of.unique : 2
*************************************************************************
******************************
Movie111: [nan  5.  4.  3.  2.  1.]
Total No.of.unique : 5
*************************************************************************
******************************
Movie112: [nan  5.]
Total No.of.unique : 1
*************************************************************************
******************************
Movie113: [nan  5.  2.  3.]
Total No.of.unique : 3
*************************************************************************
******************************
Movie114: [nan  5.  2.  4.]
Total No.of.unique : 3
*************************************************************************
******************************
Movie115: [nan  4.]
Total No.of.unique : 1
*************************************************************************
******************************
Movie116: [nan  5.]
Total No.of.unique : 1
*************************************************************************
******************************
Movie117: [nan  5.  2.]
Total No.of.unique : 2
*************************************************************************
******************************
Movie118: [nan  5.]
Total No.of.unique : 1
*************************************************************************
******************************
Movie119: [nan  5.  2.  3.]
Total No.of.unique : 3
```

```
********************************************************************
*****************************
Movie120: [nan  5.]
Total No.of.unique : 1
********************************************************************
*****************************
Movie121: [nan  4.  3.  5.]
Total No.of.unique : 3
********************************************************************
*****************************
Movie122: [nan  5.]
Total No.of.unique : 1
********************************************************************
*****************************
Movie123: [nan  5.]
Total No.of.unique : 1
********************************************************************
*****************************
Movie124: [nan  5.  4.]
Total No.of.unique : 2
********************************************************************
*****************************
Movie125: [nan  5.  4.]
Total No.of.unique : 2
********************************************************************
*****************************
Movie126: [nan  4.  5.]
Total No.of.unique : 2
********************************************************************
*****************************
Movie127: [nan  4.  5.  3.  2.  1.]
Total No.of.unique : 5
********************************************************************
*****************************
Movie128: [nan  5.]
Total No.of.unique : 1
********************************************************************
*****************************
Movie129: [nan  5.  2.]
Total No.of.unique : 2
********************************************************************
*****************************
Movie130: [nan  5.  3.]
Total No.of.unique : 2
********************************************************************
*****************************
Movie131: [nan  5.]
Total No.of.unique : 1
********************************************************************
*****************************
Movie132: [nan  5.]
Total No.of.unique : 1
********************************************************************
*****************************
Movie133: [nan  5.]
Total No.of.unique : 1
********************************************************************
*****************************
Movie134: [nan  2.  3.  4.  5.]
Total No.of.unique : 4
```

```
******************************************************************************
******************************
Movie135: [nan  5.]
Total No.of.unique : 1
******************************************************************************
******************************
Movie136: [nan  5.]
Total No.of.unique : 1
******************************************************************************
******************************
Movie137: [nan  5.  2.]
Total No.of.unique : 2
******************************************************************************
******************************
Movie138: [nan  3.  5.  1.  4.  2.]
Total No.of.unique : 5
******************************************************************************
******************************
Movie139: [nan  5.]
Total No.of.unique : 1
******************************************************************************
******************************
Movie140: [nan  5.  4.  3.  2.  1.]
Total No.of.unique : 5
******************************************************************************
******************************
Movie141: [nan  5.  3.  4.  2.]
Total No.of.unique : 4
******************************************************************************
******************************
Movie142: [nan  5.]
Total No.of.unique : 1
******************************************************************************
******************************
Movie143: [nan  5.]
Total No.of.unique : 1
******************************************************************************
******************************
Movie144: [nan  1.]
Total No.of.unique : 1
******************************************************************************
******************************
Movie145: [nan  5.]
Total No.of.unique : 1
******************************************************************************
******************************
Movie146: [nan  4.]
Total No.of.unique : 1
******************************************************************************
******************************
Movie147: [nan  5.]
Total No.of.unique : 1
******************************************************************************
******************************
Movie148: [nan  5.]
Total No.of.unique : 1
******************************************************************************
******************************
Movie149: [nan  5.]
Total No.of.unique : 1
```

```
**************************************************************************
*****************************
Movie150: [nan  5.]
Total No.of.unique : 1
**************************************************************************
*****************************
Movie151: [nan  5.  4.]
Total No.of.unique : 2
**************************************************************************
*****************************
Movie152: [nan  5.]
Total No.of.unique : 1
**************************************************************************
*****************************
Movie153: [nan  5.]
Total No.of.unique : 1
**************************************************************************
*****************************
Movie154: [nan  1.]
Total No.of.unique : 1
**************************************************************************
*****************************
Movie155: [nan  3.  5.]
Total No.of.unique : 2
**************************************************************************
*****************************
Movie156: [nan  4.]
Total No.of.unique : 1
**************************************************************************
*****************************
Movie157: [nan  5.]
Total No.of.unique : 1
**************************************************************************
*****************************
Movie158: [nan  5.  3.  4.  1.]
Total No.of.unique : 4
**************************************************************************
*****************************
Movie159: [nan  4.  2.]
Total No.of.unique : 2
**************************************************************************
*****************************
Movie160: [nan  5.  4.]
Total No.of.unique : 2
**************************************************************************
*****************************
Movie161: [nan  5.  3.  4.]
Total No.of.unique : 3
**************************************************************************
*****************************
Movie162: [nan  5.  3.]
Total No.of.unique : 2
**************************************************************************
*****************************
Movie163: [nan  5.  3.  4.]
Total No.of.unique : 3
**************************************************************************
*****************************
Movie164: [nan  5.]
Total No.of.unique : 1
```

```
******************************************************************
*****************************
Movie165: [nan  5.]
Total No.of.unique : 1
******************************************************************
*****************************
Movie166: [nan  4.]
Total No.of.unique : 1
******************************************************************
*****************************
Movie167: [nan  5.]
Total No.of.unique : 1
******************************************************************
*****************************
Movie168: [nan  5.]
Total No.of.unique : 1
******************************************************************
*****************************
Movie169: [nan  5.]
Total No.of.unique : 1
******************************************************************
*****************************
Movie170: [nan  5.  3.]
Total No.of.unique : 2
******************************************************************
*****************************
Movie171: [nan  2.]
Total No.of.unique : 1
******************************************************************
*****************************
Movie172: [nan  5.  4.]
Total No.of.unique : 2
******************************************************************
*****************************
Movie173: [nan  5.  3.]
Total No.of.unique : 2
******************************************************************
*****************************
Movie174: [nan  5.  4.]
Total No.of.unique : 2
******************************************************************
*****************************
Movie175: [nan  5.]
Total No.of.unique : 1
******************************************************************
*****************************
Movie176: [nan  5.]
Total No.of.unique : 1
******************************************************************
*****************************
Movie177: [nan  5.]
Total No.of.unique : 1
******************************************************************
*****************************
Movie178: [nan  5.]
Total No.of.unique : 1
******************************************************************
*****************************
Movie179: [nan  5.  3.]
Total No.of.unique : 2
```

```
****************************************************************
*****************************
Movie180: [nan  5.]
Total No.of.unique : 1
****************************************************************
*****************************
Movie181: [nan  5.]
Total No.of.unique : 1
****************************************************************
*****************************
Movie182: [nan  4.  5.  2.]
Total No.of.unique : 3
****************************************************************
*****************************
Movie183: [nan  5.]
Total No.of.unique : 1
****************************************************************
*****************************
Movie184: [nan  5.  4.  3.]
Total No.of.unique : 3
****************************************************************
*****************************
Movie185: [nan  3.  5.  4.]
Total No.of.unique : 3
****************************************************************
*****************************
Movie186: [nan  5.]
Total No.of.unique : 1
****************************************************************
*****************************
Movie187: [nan  5.]
Total No.of.unique : 1
****************************************************************
*****************************
Movie188: [nan  5.]
Total No.of.unique : 1
****************************************************************
*****************************
Movie189: [nan  5.]
Total No.of.unique : 1
****************************************************************
*****************************
Movie190: [nan  5.  3.]
Total No.of.unique : 2
****************************************************************
*****************************
Movie191: [nan  5.]
Total No.of.unique : 1
****************************************************************
*****************************
Movie192: [nan  5.  4.  3.]
Total No.of.unique : 3
****************************************************************
*****************************
Movie193: [nan  3.  5.  4.]
Total No.of.unique : 3
****************************************************************
*****************************
Movie194: [nan  5.  4.]
Total No.of.unique : 2
```

```
         ******************************************************************
         ******************************
         Movie195: [nan  4.]
         Total No.of.unique : 1
         ******************************************************************
         ******************************
         Movie196: [nan  5.  4.]
         Total No.of.unique : 2
         ******************************************************************
         ******************************
         Movie197: [nan  4.  5.  1.]
         Total No.of.unique : 3
         ******************************************************************
         ******************************
         Movie198: [nan  5.]
         Total No.of.unique : 1
         ******************************************************************
         ******************************
         Movie199: [nan  5.]
         Total No.of.unique : 1
         ******************************************************************
         ******************************
         Movie200: [nan  5.  4.]
         Total No.of.unique : 2
         ******************************************************************
         ******************************
         Movie201: [nan  5.  3.]
         Total No.of.unique : 2
         ******************************************************************
         ******************************
         Movie202: [nan  5.  1.]
         Total No.of.unique : 2
         ******************************************************************
         ******************************
         Movie203: [nan  3.]
         Total No.of.unique : 1
         ******************************************************************
         ******************************
         Movie204: [nan  1.  5.  4.]
         Total No.of.unique : 3
         ******************************************************************
         ******************************
         Movie205: [nan  5.  2.  1.  4.  3.]
         Total No.of.unique : 5
         ******************************************************************
         ******************************
```

In [ ]: `#data = data.fillna(0)`

```python
In [ ]: for column in data:
    print(f'{column}: {data[column].unique()}')
    print(f'Total No.of.unique : {data[column].nunique()}')
    print(f'{column}:{data[column].dtypes}')
    print('Total.No.Of.Value Count')
    print(f' {data[column].value_counts()}')
    print('*************************************************************
*************************************')
```

```
Streaming output truncated to the last 5000 lines.
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Movie1:float64
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Name: Movie2, dtype: int64
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Total No.of.unique : 1
Movie3:float64
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Name: Movie3, dtype: int64
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Movie4:float64
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Name: Movie4, dtype: int64
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2.0    4
1.0    3
4.0    2
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Movie6: [nan   4.]
Total No.of.unique : 1
Movie6:float64
Total.No.Of.Value Count
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Name: Movie6, dtype: int64
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Movie7: [nan   5.]
Total No.of.unique : 1
Movie7:float64
Total.No.Of.Value Count
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Name: Movie7, dtype: int64
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Movie8: [nan   5.]
Total No.of.unique : 1
Movie8:float64
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*****************************
Movie11: [nan  5.]
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Name: Movie11, dtype: int64
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*****************************
Movie12: [nan  5.]
Total No.of.unique : 1
Movie12:float64
Total.No.Of.Value Count
 5.0    5
Name: Movie12, dtype: int64
********************************************************************
*****************************
Movie13: [nan  5.]
Total No.of.unique : 1
Movie13:float64
Total.No.Of.Value Count
 5.0    1
Name: Movie13, dtype: int64
********************************************************************
*****************************
Movie14: [nan  4.]
Total No.of.unique : 1
Movie14:float64
Total.No.Of.Value Count
 4.0    1
Name: Movie14, dtype: int64
********************************************************************
*****************************
Movie15: [nan  5.]
Total No.of.unique : 1
Movie15:float64
Total.No.Of.Value Count
 5.0    1
Name: Movie15, dtype: int64
********************************************************************
*****************************
Movie16: [nan  5.  4.  3.  1.  2.]
Total No.of.unique : 5
```

```
                Movie16:float64
                Total.No.Of.Value Count
                 5.0    213
                4.0     71
                3.0     28
                2.0      5
                1.0      3
                Name: Movie16, dtype: int64
                **********************************************************************
                *****************************
                Movie17: [nan  3.]
                Total No.of.unique : 1
                Movie17:float64
                Total.No.Of.Value Count
                 3.0    1
                Name: Movie17, dtype: int64
                **********************************************************************
                *****************************
                Movie18: [nan  5.]
                Total No.of.unique : 1
                Movie18:float64
                Total.No.Of.Value Count
                 5.0    1
                Name: Movie18, dtype: int64
                **********************************************************************
                *****************************
                Movie19: [nan  2.  5.]
                Total No.of.unique : 2
                Movie19:float64
                Total.No.Of.Value Count
                 2.0    1
                5.0    1
                Name: Movie19, dtype: int64
                **********************************************************************
                *****************************
                Movie20: [nan  3.]
                Total No.of.unique : 1
                Movie20:float64
                Total.No.Of.Value Count
                 3.0    1
                Name: Movie20, dtype: int64
                **********************************************************************
                *****************************
                Movie21: [nan  5.]
                Total No.of.unique : 1
                Movie21:float64
                Total.No.Of.Value Count
                 5.0    1
                Name: Movie21, dtype: int64
                **********************************************************************
                *****************************
                Movie22: [nan  5.]
                Total No.of.unique : 1
                Movie22:float64
                Total.No.Of.Value Count
                 5.0    2
                Name: Movie22, dtype: int64
                **********************************************************************
                *****************************
                Movie23: [nan  5.]
```

```
                    Total No.of.unique : 1
                    Movie23:float64
                    Total.No.Of.Value Count
                     5.0    3
                    Name: Movie23, dtype: int64
                    *************************************************************
                    *****************************
                    Movie24: [nan  5.  2.]
                    Total No.of.unique : 2
                    Movie24:float64
                    Total.No.Of.Value Count
                     5.0    4
                    2.0    1
                    Name: Movie24, dtype: int64
                    *************************************************************
                    *****************************
                    Movie25: [nan  5.]
                    Total No.of.unique : 1
                    Movie25:float64
                    Total.No.Of.Value Count
                     5.0    1
                    Name: Movie25, dtype: int64
                    *************************************************************
                    *****************************
                    Movie26: [nan  4.  1.]
                    Total No.of.unique : 2
                    Movie26:float64
                    Total.No.Of.Value Count
                     4.0    2
                    1.0    1
                    Name: Movie26, dtype: int64
                    *************************************************************
                    *****************************
                    Movie27: [nan  5.]
                    Total No.of.unique : 1
                    Movie27:float64
                    Total.No.Of.Value Count
                     5.0    1
                    Name: Movie27, dtype: int64
                    *************************************************************
                    *****************************
                    Movie28: [nan  2.  3.  5.]
                    Total No.of.unique : 3
                    Movie28:float64
                    Total.No.Of.Value Count
                     2.0    1
                    3.0    1
                    5.0    1
                    Name: Movie28, dtype: int64
                    *************************************************************
                    *****************************
                    Movie29: [nan  5.  4.  2.  1.  3.]
                    Total No.of.unique : 5
                    Movie29:float64
                    Total.No.Of.Value Count
                     5.0    215
                    4.0     19
                    1.0      4
                    3.0      3
                    2.0      2
```

```
                Name: Movie29, dtype: int64
                ********************************************************************
                ******************************
                Movie30: [nan  4.  5.]
                Total No.of.unique : 2
                Movie30:float64
                Total.No.Of.Value Count
                 4.0   1
                5.0   1
                Name: Movie30, dtype: int64
                ********************************************************************
                ******************************
                Movie31: [nan  5.]
                Total No.of.unique : 1
                Movie31:float64
                Total.No.Of.Value Count
                 5.0   2
                Name: Movie31, dtype: int64
                ********************************************************************
                ******************************
                Movie32: [nan  4.  5.]
                Total No.of.unique : 2
                Movie32:float64
                Total.No.Of.Value Count
                 4.0   1
                5.0   1
                Name: Movie32, dtype: int64
                ********************************************************************
                ******************************
                Movie33: [nan  5.]
                Total No.of.unique : 1
                Movie33:float64
                Total.No.Of.Value Count
                 5.0   1
                Name: Movie33, dtype: int64
                ********************************************************************
                ******************************
                Movie34: [nan  5.]
                Total No.of.unique : 1
                Movie34:float64
                Total.No.Of.Value Count
                 5.0   1
                Name: Movie34, dtype: int64
                ********************************************************************
                ******************************
                Movie35: [nan  5.]
                Total No.of.unique : 1
                Movie35:float64
                Total.No.Of.Value Count
                 5.0   1
                Name: Movie35, dtype: int64
                ********************************************************************
                ******************************
                Movie36: [nan  5.]
                Total No.of.unique : 1
                Movie36:float64
                Total.No.Of.Value Count
                 5.0   1
                Name: Movie36, dtype: int64
                ********************************************************************
```

```
******************************
Movie37: [nan  5.]
Total No.of.unique : 1
Movie37:float64
Total.No.Of.Value Count
 5.0    1
Name: Movie37, dtype: int64
************************************************************************
******************************
Movie38: [nan  5.]
Total No.of.unique : 1
Movie38:float64
Total.No.Of.Value Count
 5.0    1
Name: Movie38, dtype: int64
************************************************************************
******************************
Movie39: [nan  5.]
Total No.of.unique : 1
Movie39:float64
Total.No.Of.Value Count
 5.0    4
Name: Movie39, dtype: int64
************************************************************************
******************************
Movie40: [nan  5.]
Total No.of.unique : 1
Movie40:float64
Total.No.Of.Value Count
 5.0    3
Name: Movie40, dtype: int64
************************************************************************
******************************
Movie41: [nan  5.]
Total No.of.unique : 1
Movie41:float64
Total.No.Of.Value Count
 5.0    1
Name: Movie41, dtype: int64
************************************************************************
******************************
Movie42: [nan  5.]
Total No.of.unique : 1
Movie42:float64
Total.No.Of.Value Count
 5.0    1
Name: Movie42, dtype: int64
************************************************************************
******************************
Movie43: [nan  5.  4.]
Total No.of.unique : 2
Movie43:float64
Total.No.Of.Value Count
 5.0    6
4.0    1
Name: Movie43, dtype: int64
************************************************************************
******************************
Movie44: [nan  5.]
Total No.of.unique : 1
```

```
                    Movie44:float64
                    Total.No.Of.Value Count
                     5.0    2
                    Name: Movie44, dtype: int64
                    ***********************************************************************
                    ******************************
                    Movie45: [nan  1.]
                    Total No.of.unique : 1
                    Movie45:float64
                    Total.No.Of.Value Count
                     1.0    1
                    Name: Movie45, dtype: int64
                    ***********************************************************************
                    ******************************
                    Movie46: [nan  5.]
                    Total No.of.unique : 1
                    Movie46:float64
                    Total.No.Of.Value Count
                     5.0    1
                    Name: Movie46, dtype: int64
                    ***********************************************************************
                    ******************************
                    Movie47: [nan  5.]
                    Total No.of.unique : 1
                    Movie47:float64
                    Total.No.Of.Value Count
                     5.0    1
                    Name: Movie47, dtype: int64
                    ***********************************************************************
                    ******************************
                    Movie48: [nan  5.]
                    Total No.of.unique : 1
                    Movie48:float64
                    Total.No.Of.Value Count
                     5.0    1
                    Name: Movie48, dtype: int64
                    ***********************************************************************
                    ******************************
                    Movie49: [nan  5.]
                    Total No.of.unique : 1
                    Movie49:float64
                    Total.No.Of.Value Count
                     5.0    1
                    Name: Movie49, dtype: int64
                    ***********************************************************************
                    ******************************
                    Movie50: [nan  5.]
                    Total No.of.unique : 1
                    Movie50:float64
                    Total.No.Of.Value Count
                     5.0    1
                    Name: Movie50, dtype: int64
                    ***********************************************************************
                    ******************************
                    Movie51: [nan  4.  5.]
                    Total No.of.unique : 2
                    Movie51:float64
                    Total.No.Of.Value Count
                     4.0    1
                    5.0    1
```

```
Name: Movie51, dtype: int64
*************************************************************************
*****************************
Movie52: [nan  2.  4.  3.  5.  1.]
Total No.of.unique : 5
Movie52:float64
Total.No.Of.Value Count
 5.0    6
4.0    4
1.0    3
2.0    2
3.0    2
Name: Movie52, dtype: int64
*************************************************************************
*****************************
Movie53: [nan  1.  4.]
Total No.of.unique : 2
Movie53:float64
Total.No.Of.Value Count
 1.0    2
4.0    1
Name: Movie53, dtype: int64
*************************************************************************
*****************************
Movie54: [nan  5.]
Total No.of.unique : 1
Movie54:float64
Total.No.Of.Value Count
 5.0    1
Name: Movie54, dtype: int64
*************************************************************************
*****************************
Movie55: [nan  5.]
Total No.of.unique : 1
Movie55:float64
Total.No.Of.Value Count
 5.0    1
Name: Movie55, dtype: int64
*************************************************************************
*****************************
Movie56: [nan  5.]
Total No.of.unique : 1
Movie56:float64
Total.No.Of.Value Count
 5.0    1
Name: Movie56, dtype: int64
*************************************************************************
*****************************
Movie57: [nan  5.]
Total No.of.unique : 1
Movie57:float64
Total.No.Of.Value Count
 5.0    1
Name: Movie57, dtype: int64
*************************************************************************
*****************************
Movie58: [nan  1.]
Total No.of.unique : 1
Movie58:float64
Total.No.Of.Value Count
```

```
 1.0    1
Name: Movie58, dtype: int64
*********************************************************************
******************************
Movie59: [nan  2.]
Total No.of.unique : 1
Movie59:float64
Total.No.Of.Value Count
 2.0    1
Name: Movie59, dtype: int64
*********************************************************************
******************************
Movie60: [nan  1.]
Total No.of.unique : 1
Movie60:float64
Total.No.Of.Value Count
 1.0    1
Name: Movie60, dtype: int64
*********************************************************************
******************************
Movie61: [nan  5.]
Total No.of.unique : 1
Movie61:float64
Total.No.Of.Value Count
 5.0    1
Name: Movie61, dtype: int64
*********************************************************************
******************************
Movie62: [nan  1.  5.]
Total No.of.unique : 2
Movie62:float64
Total.No.Of.Value Count
 1.0    2
5.0    2
Name: Movie62, dtype: int64
*********************************************************************
******************************
Movie63: [nan  5.]
Total No.of.unique : 1
Movie63:float64
Total.No.Of.Value Count
 5.0    1
Name: Movie63, dtype: int64
*********************************************************************
******************************
Movie64: [nan  3.]
Total No.of.unique : 1
Movie64:float64
Total.No.Of.Value Count
 3.0    1
Name: Movie64, dtype: int64
*********************************************************************
******************************
Movie65: [nan  5.]
Total No.of.unique : 1
Movie65:float64
Total.No.Of.Value Count
 5.0    1
Name: Movie65, dtype: int64
*********************************************************************
```

```
******************************
Movie66: [nan  5.]
Total No.of.unique : 1
Movie66:float64
Total.No.Of.Value Count
 5.0    1
Name: Movie66, dtype: int64
************************************************************************
******************************
Movie67: [nan  1.]
Total No.of.unique : 1
Movie67:float64
Total.No.Of.Value Count
 1.0    1
Name: Movie67, dtype: int64
************************************************************************
******************************
Movie68: [nan  5.]
Total No.of.unique : 1
Movie68:float64
Total.No.Of.Value Count
 5.0    1
Name: Movie68, dtype: int64
************************************************************************
******************************
Movie69: [nan  1.]
Total No.of.unique : 1
Movie69:float64
Total.No.Of.Value Count
 1.0    1
Name: Movie69, dtype: int64
************************************************************************
******************************
Movie70: [nan  5.]
Total No.of.unique : 1
Movie70:float64
Total.No.Of.Value Count
 5.0    2
Name: Movie70, dtype: int64
************************************************************************
******************************
Movie71: [nan  4.]
Total No.of.unique : 1
Movie71:float64
Total.No.Of.Value Count
 4.0    1
Name: Movie71, dtype: int64
************************************************************************
******************************
Movie72: [nan  5.]
Total No.of.unique : 1
Movie72:float64
Total.No.Of.Value Count
 5.0    1
Name: Movie72, dtype: int64
************************************************************************
******************************
Movie73: [nan  2.]
Total No.of.unique : 1
Movie73:float64
```

```
                        Total.No.Of.Value Count
                         2.0    1
                        Name: Movie73, dtype: int64
                        *************************************************************
                        *****************************
                        Movie74: [nan  5.]
                        Total No.of.unique : 1
                        Movie74:float64
                        Total.No.Of.Value Count
                         5.0    1
                        Name: Movie74, dtype: int64
                        *************************************************************
                        *****************************
                        Movie75: [nan  5.]
                        Total No.of.unique : 1
                        Movie75:float64
                        Total.No.Of.Value Count
                         5.0    1
                        Name: Movie75, dtype: int64
                        *************************************************************
                        *****************************
                        Movie76: [nan  5.]
                        Total No.of.unique : 1
                        Movie76:float64
                        Total.No.Of.Value Count
                         5.0    2
                        Name: Movie76, dtype: int64
                        *************************************************************
                        *****************************
                        Movie77: [nan  5.]
                        Total No.of.unique : 1
                        Movie77:float64
                        Total.No.Of.Value Count
                         5.0    1
                        Name: Movie77, dtype: int64
                        *************************************************************
                        *****************************
                        Movie78: [nan  5.]
                        Total No.of.unique : 1
                        Movie78:float64
                        Total.No.Of.Value Count
                         5.0    1
                        Name: Movie78, dtype: int64
                        *************************************************************
                        *****************************
                        Movie79: [nan  5.]
                        Total No.of.unique : 1
                        Movie79:float64
                        Total.No.Of.Value Count
                         5.0    2
                        Name: Movie79, dtype: int64
                        *************************************************************
                        *****************************
                        Movie80: [nan  4.]
                        Total No.of.unique : 1
                        Movie80:float64
                        Total.No.Of.Value Count
                         4.0    1
                        Name: Movie80, dtype: int64
                        *************************************************************
```

```
*****************************
Movie81: [nan  5.  4.  1.]
Total No.of.unique : 3
Movie81:float64
Total.No.Of.Value Count
 5.0    8
4.0    3
1.0    1
Name: Movie81, dtype: int64
*************************************************************************
*****************************
Movie82: [nan  5.]
Total No.of.unique : 1
Movie82:float64
Total.No.Of.Value Count
 5.0    2
Name: Movie82, dtype: int64
*************************************************************************
*****************************
Movie83: [nan  3.]
Total No.of.unique : 1
Movie83:float64
Total.No.Of.Value Count
 3.0    1
Name: Movie83, dtype: int64
*************************************************************************
*****************************
Movie84: [nan  5.]
Total No.of.unique : 1
Movie84:float64
Total.No.Of.Value Count
 5.0    1
Name: Movie84, dtype: int64
*************************************************************************
*****************************
Movie85: [nan  5.]
Total No.of.unique : 1
Movie85:float64
Total.No.Of.Value Count
 5.0    3
Name: Movie85, dtype: int64
*************************************************************************
*****************************
Movie86: [nan  5.  3.  4.  1.]
Total No.of.unique : 4
Movie86:float64
Total.No.Of.Value Count
 5.0   18
3.0    1
4.0    1
1.0    1
Name: Movie86, dtype: int64
*************************************************************************
*****************************
Movie87: [nan  5.]
Total No.of.unique : 1
Movie87:float64
Total.No.Of.Value Count
 5.0    1
Name: Movie87, dtype: int64
```

```
*************************************************************************
*****************************
Movie88: [nan  4.]
Total No.of.unique : 1
Movie88:float64
Total.No.Of.Value Count
 4.0    1
Name: Movie88, dtype: int64
*************************************************************************
*****************************
Movie89: [nan  5.  4.  2.  1.  3.]
Total No.of.unique : 5
Movie89:float64
Total.No.Of.Value Count
 5.0    64
4.0     9
3.0     6
2.0     2
1.0     2
Name: Movie89, dtype: int64
*************************************************************************
*****************************
Movie90: [nan  4.  1.  5.  2.]
Total No.of.unique : 4
Movie90:float64
Total.No.Of.Value Count
 1.0    13
4.0     2
5.0     2
2.0     1
Name: Movie90, dtype: int64
*************************************************************************
*****************************
Movie91: [nan  5.  3.  2.  4.  1.]
Total No.of.unique : 5
Movie91:float64
Total.No.Of.Value Count
 5.0    103
4.0     10
3.0      6
1.0      5
2.0      4
Name: Movie91, dtype: int64
*************************************************************************
*****************************
Movie92: [nan  5.  3.  4.  2.]
Total No.of.unique : 4
Movie92:float64
Total.No.Of.Value Count
 5.0    87
4.0     7
3.0     5
2.0     2
Name: Movie92, dtype: int64
*************************************************************************
*****************************
Movie93: [nan  5.]
Total No.of.unique : 1
Movie93:float64
Total.No.Of.Value Count
```

```
 5.0    2
Name: Movie93, dtype: int64
**********************************************************************
*****************************
Movie94: [nan  5.  4.]
Total No.of.unique : 2
Movie94:float64
Total.No.Of.Value Count
 4.0    2
 5.0    1
Name: Movie94, dtype: int64
**********************************************************************
*****************************
Movie95: [nan  5.  3.  1.]
Total No.of.unique : 3
Movie95:float64
Total.No.Of.Value Count
 5.0    3
 1.0    2
 3.0    1
Name: Movie95, dtype: int64
**********************************************************************
*****************************
Movie96: [nan  5.]
Total No.of.unique : 1
Movie96:float64
Total.No.Of.Value Count
 5.0    3
Name: Movie96, dtype: int64
**********************************************************************
*****************************
Movie97: [nan  5.  4.]
Total No.of.unique : 2
Movie97:float64
Total.No.Of.Value Count
 5.0    4
 4.0    1
Name: Movie97, dtype: int64
**********************************************************************
*****************************
Movie98: [nan  5.]
Total No.of.unique : 1
Movie98:float64
Total.No.Of.Value Count
 5.0    1
Name: Movie98, dtype: int64
**********************************************************************
*****************************
Movie99: [nan  5.  3.]
Total No.of.unique : 2
Movie99:float64
Total.No.Of.Value Count
 5.0    1
 3.0    1
Name: Movie99, dtype: int64
**********************************************************************
*****************************
Movie100: [nan  4.]
Total No.of.unique : 1
Movie100:float64
```

```
Total.No.Of.Value Count
 4.0    1
Name: Movie100, dtype: int64
************************************************************************
*****************************
Movie101: [nan  5.]
Total No.of.unique : 1
Movie101:float64
Total.No.Of.Value Count
 5.0    5
Name: Movie101, dtype: int64
************************************************************************
*****************************
Movie102: [nan  5.   3.]
Total No.of.unique : 2
Movie102:float64
Total.No.Of.Value Count
 5.0    1
3.0    1
Name: Movie102, dtype: int64
************************************************************************
*****************************
Movie103: [nan  5.   4.   1.   3.]
Total No.of.unique : 4
Movie103:float64
Total.No.Of.Value Count
 5.0    215
4.0    29
1.0    17
3.0    11
Name: Movie103, dtype: int64
************************************************************************
*****************************
Movie104: [nan  5.   4.]
Total No.of.unique : 2
Movie104:float64
Total.No.Of.Value Count
 5.0    2
4.0    2
Name: Movie104, dtype: int64
************************************************************************
*****************************
Movie105: [nan  5.]
Total No.of.unique : 1
Movie105:float64
Total.No.Of.Value Count
 5.0    3
Name: Movie105, dtype: int64
************************************************************************
*****************************
Movie106: [nan  5.]
Total No.of.unique : 1
Movie106:float64
Total.No.Of.Value Count
 5.0    1
Name: Movie106, dtype: int64
************************************************************************
*****************************
Movie107: [nan  5.   1.   4.   2.   3.]
Total No.of.unique : 5
```

```
                Movie107:float64
                Total.No.Of.Value Count
                 5.0    23
                4.0     6
                1.0     5
                2.0     3
                3.0     2
                Name: Movie107, dtype: int64
                ************************************************************************
                ******************************
                Movie108: [nan  5.  3.  4.  1.]
                Total No.of.unique : 4
                Movie108:float64
                Total.No.Of.Value Count
                 5.0    42
                4.0     8
                3.0     3
                1.0     1
                Name: Movie108, dtype: int64
                ************************************************************************
                ******************************
                Movie109: [nan  2.  5.  4.  3.]
                Total No.of.unique : 4
                Movie109:float64
                Total.No.Of.Value Count
                 5.0     9
                3.0     2
                2.0     1
                4.0     1
                Name: Movie109, dtype: int64
                ************************************************************************
                ******************************
                Movie110: [nan  5.  4.]
                Total No.of.unique : 2
                Movie110:float64
                Total.No.Of.Value Count
                 5.0     7
                4.0     1
                Name: Movie110, dtype: int64
                ************************************************************************
                ******************************
                Movie111: [nan  5.  4.  3.  2.  1.]
                Total No.of.unique : 5
                Movie111:float64
                Total.No.Of.Value Count
                 5.0    31
                4.0     5
                3.0     1
                2.0     1
                1.0     1
                Name: Movie111, dtype: int64
                ************************************************************************
                ******************************
                Movie112: [nan  5.]
                Total No.of.unique : 1
                Movie112:float64
                Total.No.Of.Value Count
                 5.0     2
                Name: Movie112, dtype: int64
                ************************************************************************
```

```
                        ******************************
                        Movie113: [nan  5.  2.  3.]
                        Total No.of.unique : 3
                        Movie113:float64
                        Total.No.Of.Value Count
                         5.0    2
                        2.0    1
                        3.0    1
                        Name: Movie113, dtype: int64
                        **************************************************************
                        ******************************
                        Movie114: [nan  5.  2.  4.]
                        Total No.of.unique : 3
                        Movie114:float64
                        Total.No.Of.Value Count
                         5.0    5
                        2.0    1
                        4.0    1
                        Name: Movie114, dtype: int64
                        **************************************************************
                        ******************************
                        Movie115: [nan  4.]
                        Total No.of.unique : 1
                        Movie115:float64
                        Total.No.Of.Value Count
                         4.0    1
                        Name: Movie115, dtype: int64
                        **************************************************************
                        ******************************
                        Movie116: [nan  5.]
                        Total No.of.unique : 1
                        Movie116:float64
                        Total.No.Of.Value Count
                         5.0    1
                        Name: Movie116, dtype: int64
                        **************************************************************
                        ******************************
                        Movie117: [nan  5.  2.]
                        Total No.of.unique : 2
                        Movie117:float64
                        Total.No.Of.Value Count
                         5.0   10
                        2.0    1
                        Name: Movie117, dtype: int64
                        **************************************************************
                        ******************************
                        Movie118: [nan  5.]
                        Total No.of.unique : 1
                        Movie118:float64
                        Total.No.Of.Value Count
                         5.0    5
                        Name: Movie118, dtype: int64
                        **************************************************************
                        ******************************
                        Movie119: [nan  5.  2.  3.]
                        Total No.of.unique : 3
                        Movie119:float64
                        Total.No.Of.Value Count
                         5.0    6
                        2.0    1
```

```
3.0    1
Name: Movie119, dtype: int64
**************************************************************************
*****************************
Movie120: [nan  5.]
Total No.of.unique : 1
Movie120:float64
Total.No.Of.Value Count
 5.0    3
Name: Movie120, dtype: int64
**************************************************************************
*****************************
Movie121: [nan  4.  3.  5.]
Total No.of.unique : 3
Movie121:float64
Total.No.Of.Value Count
 5.0    2
4.0    1
3.0    1
Name: Movie121, dtype: int64
**************************************************************************
*****************************
Movie122: [nan  5.]
Total No.of.unique : 1
Movie122:float64
Total.No.Of.Value Count
 5.0    4
Name: Movie122, dtype: int64
**************************************************************************
*****************************
Movie123: [nan  5.]
Total No.of.unique : 1
Movie123:float64
Total.No.Of.Value Count
 5.0    1
Name: Movie123, dtype: int64
**************************************************************************
*****************************
Movie124: [nan  5.  4.]
Total No.of.unique : 2
Movie124:float64
Total.No.Of.Value Count
 5.0    3
4.0    1
Name: Movie124, dtype: int64
**************************************************************************
*****************************
Movie125: [nan  5.  4.]
Total No.of.unique : 2
Movie125:float64
Total.No.Of.Value Count
 5.0    4
4.0    1
Name: Movie125, dtype: int64
**************************************************************************
*****************************
Movie126: [nan  4.  5.]
Total No.of.unique : 2
Movie126:float64
Total.No.Of.Value Count
```

```
 4.0    1
5.0    1
Name: Movie126, dtype: int64
**************************************************************************
*****************************
Movie127: [nan  4.   5.   3.   2.   1.]
Total No.of.unique : 5
Movie127:float64
Total.No.Of.Value Count
 5.0    1512
1.0     277
4.0     236
3.0     154
2.0     134
Name: Movie127, dtype: int64
**************************************************************************
*****************************
Movie128: [nan   5.]
Total No.of.unique : 1
Movie128:float64
Total.No.Of.Value Count
 5.0    3
Name: Movie128, dtype: int64
**************************************************************************
*****************************
Movie129: [nan   5.   2.]
Total No.of.unique : 2
Movie129:float64
Total.No.Of.Value Count
 5.0    2
2.0    1
Name: Movie129, dtype: int64
**************************************************************************
*****************************
Movie130: [nan   5.   3.]
Total No.of.unique : 2
Movie130:float64
Total.No.Of.Value Count
 5.0    3
3.0    1
Name: Movie130, dtype: int64
**************************************************************************
*****************************
Movie131: [nan   5.]
Total No.of.unique : 1
Movie131:float64
Total.No.Of.Value Count
 5.0    4
Name: Movie131, dtype: int64
**************************************************************************
*****************************
Movie132: [nan   5.]
Total No.of.unique : 1
Movie132:float64
Total.No.Of.Value Count
 5.0    3
Name: Movie132, dtype: int64
**************************************************************************
*****************************
Movie133: [nan   5.]
```

```
Total No.of.unique : 1
Movie133:float64
Total.No.Of.Value Count
 5.0    1
Name: Movie133, dtype: int64
************************************************************************
******************************
Movie134: [nan  2.   3.   4.   5.]
Total No.of.unique : 4
Movie134:float64
Total.No.Of.Value Count
 5.0    3
2.0    1
3.0    1
4.0    1
Name: Movie134, dtype: int64
************************************************************************
******************************
Movie135: [nan  5.]
Total No.of.unique : 1
Movie135:float64
Total.No.Of.Value Count
 5.0    1
Name: Movie135, dtype: int64
************************************************************************
******************************
Movie136: [nan  5.]
Total No.of.unique : 1
Movie136:float64
Total.No.Of.Value Count
 5.0    2
Name: Movie136, dtype: int64
************************************************************************
******************************
Movie137: [nan  5.   2.]
Total No.of.unique : 2
Movie137:float64
Total.No.Of.Value Count
 5.0    2
2.0    1
Name: Movie137, dtype: int64
************************************************************************
******************************
Movie138: [nan  3.   5.   1.   4.   2.]
Total No.of.unique : 5
Movie138:float64
Total.No.Of.Value Count
 5.0    8
3.0    2
1.0    1
4.0    1
2.0    1
Name: Movie138, dtype: int64
************************************************************************
******************************
Movie139: [nan  5.]
Total No.of.unique : 1
Movie139:float64
Total.No.Of.Value Count
 5.0    4
```

```
Name: Movie139, dtype: int64
*************************************************************************
*****************************
Movie140: [nan  5.  4.  3.  2.  1.]
Total No.of.unique : 5
Movie140:float64
Total.No.Of.Value Count
 5.0    523
4.0     33
3.0     10
1.0      7
2.0      5
Name: Movie140, dtype: int64
*************************************************************************
*****************************
Movie141: [nan  5.  3.  4.  2.]
Total No.of.unique : 4
Movie141:float64
Total.No.Of.Value Count
 5.0    4
3.0    1
4.0    1
2.0    1
Name: Movie141, dtype: int64
*************************************************************************
*****************************
Movie142: [nan  5.]
Total No.of.unique : 1
Movie142:float64
Total.No.Of.Value Count
 5.0    1
Name: Movie142, dtype: int64
*************************************************************************
*****************************
Movie143: [nan  5.]
Total No.of.unique : 1
Movie143:float64
Total.No.Of.Value Count
 5.0    1
Name: Movie143, dtype: int64
*************************************************************************
*****************************
Movie144: [nan  1.]
Total No.of.unique : 1
Movie144:float64
Total.No.Of.Value Count
 1.0    1
Name: Movie144, dtype: int64
*************************************************************************
*****************************
Movie145: [nan  5.]
Total No.of.unique : 1
Movie145:float64
Total.No.Of.Value Count
 5.0    1
Name: Movie145, dtype: int64
*************************************************************************
*****************************
Movie146: [nan  4.]
Total No.of.unique : 1
```

```
Movie146:float64
Total.No.Of.Value Count
 4.0    1
Name: Movie146, dtype: int64
***********************************************************************
******************************
Movie147: [nan  5.]
Total No.of.unique : 1
Movie147:float64
Total.No.Of.Value Count
 5.0    1
Name: Movie147, dtype: int64
***********************************************************************
******************************
Movie148: [nan  5.]
Total No.of.unique : 1
Movie148:float64
Total.No.Of.Value Count
 5.0    2
Name: Movie148, dtype: int64
***********************************************************************
******************************
Movie149: [nan  5.]
Total No.of.unique : 1
Movie149:float64
Total.No.Of.Value Count
 5.0    1
Name: Movie149, dtype: int64
***********************************************************************
******************************
Movie150: [nan  5.]
Total No.of.unique : 1
Movie150:float64
Total.No.Of.Value Count
 5.0    3
Name: Movie150, dtype: int64
***********************************************************************
******************************
Movie151: [nan  5.  4.]
Total No.of.unique : 2
Movie151:float64
Total.No.Of.Value Count
 5.0    1
4.0    1
Name: Movie151, dtype: int64
***********************************************************************
******************************
Movie152: [nan  5.]
Total No.of.unique : 1
Movie152:float64
Total.No.Of.Value Count
 5.0    1
Name: Movie152, dtype: int64
***********************************************************************
******************************
Movie153: [nan  5.]
Total No.of.unique : 1
Movie153:float64
Total.No.Of.Value Count
 5.0    1
```

```
                    Name: Movie153, dtype: int64
                    ***********************************************************************
                    ******************************
                    Movie154: [nan  1.]
                    Total No.of.unique : 1
                    Movie154:float64
                    Total.No.Of.Value Count
                     1.0    1
                    Name: Movie154, dtype: int64
                    ***********************************************************************
                    ******************************
                    Movie155: [nan  3.  5.]
                    Total No.of.unique : 2
                    Movie155:float64
                    Total.No.Of.Value Count
                     3.0    1
                    5.0    1
                    Name: Movie155, dtype: int64
                    ***********************************************************************
                    ******************************
                    Movie156: [nan  4.]
                    Total No.of.unique : 1
                    Movie156:float64
                    Total.No.Of.Value Count
                     4.0    1
                    Name: Movie156, dtype: int64
                    ***********************************************************************
                    ******************************
                    Movie157: [nan  5.]
                    Total No.of.unique : 1
                    Movie157:float64
                    Total.No.Of.Value Count
                     5.0    4
                    Name: Movie157, dtype: int64
                    ***********************************************************************
                    ******************************
                    Movie158: [nan  5.  3.  4.  1.]
                    Total No.of.unique : 4
                    Movie158:float64
                    Total.No.Of.Value Count
                     5.0    59
                    4.0     4
                    3.0     2
                    1.0     1
                    Name: Movie158, dtype: int64
                    ***********************************************************************
                    ******************************
                    Movie159: [nan  4.  2.]
                    Total No.of.unique : 2
                    Movie159:float64
                    Total.No.Of.Value Count
                     4.0    1
                    2.0    1
                    Name: Movie159, dtype: int64
                    ***********************************************************************
                    ******************************
                    Movie160: [nan  5.  4.]
                    Total No.of.unique : 2
                    Movie160:float64
                    Total.No.Of.Value Count
```

```
 5.0    4
4.0    2
Name: Movie160, dtype: int64
************************************************************************
*****************************
Movie161: [nan  5.  3.  4.]
Total No.of.unique : 3
Movie161:float64
Total.No.Of.Value Count
 5.0    18
4.0     4
3.0     3
Name: Movie161, dtype: int64
************************************************************************
*****************************
Movie162: [nan  5.  3.]
Total No.of.unique : 2
Movie162:float64
Total.No.Of.Value Count
 5.0    14
3.0     1
Name: Movie162, dtype: int64
************************************************************************
*****************************
Movie163: [nan  5.  3.  4.]
Total No.of.unique : 3
Movie163:float64
Total.No.Of.Value Count
 5.0    9
3.0    3
4.0    1
Name: Movie163, dtype: int64
************************************************************************
*****************************
Movie164: [nan  5.]
Total No.of.unique : 1
Movie164:float64
Total.No.Of.Value Count
 5.0    4
Name: Movie164, dtype: int64
************************************************************************
*****************************
Movie165: [nan  5.]
Total No.of.unique : 1
Movie165:float64
Total.No.Of.Value Count
 5.0    1
Name: Movie165, dtype: int64
************************************************************************
*****************************
Movie166: [nan  4.]
Total No.of.unique : 1
Movie166:float64
Total.No.Of.Value Count
 4.0    2
Name: Movie166, dtype: int64
************************************************************************
*****************************
Movie167: [nan  5.]
Total No.of.unique : 1
```

```
Movie167:float64
Total.No.Of.Value Count
 5.0    4
Name: Movie167, dtype: int64
*************************************************************************
*****************************
Movie168: [nan  5.]
Total No.of.unique : 1
Movie168:float64
Total.No.Of.Value Count
 5.0    4
Name: Movie168, dtype: int64
*************************************************************************
*****************************
Movie169: [nan  5.]
Total No.of.unique : 1
Movie169:float64
Total.No.Of.Value Count
 5.0    4
Name: Movie169, dtype: int64
*************************************************************************
*****************************
Movie170: [nan  5.  3.]
Total No.of.unique : 2
Movie170:float64
Total.No.Of.Value Count
 5.0    2
3.0    1
Name: Movie170, dtype: int64
*************************************************************************
*****************************
Movie171: [nan  2.]
Total No.of.unique : 1
Movie171:float64
Total.No.Of.Value Count
 2.0    1
Name: Movie171, dtype: int64
*************************************************************************
*****************************
Movie172: [nan  5.  4.]
Total No.of.unique : 2
Movie172:float64
Total.No.Of.Value Count
 5.0    1
4.0    1
Name: Movie172, dtype: int64
*************************************************************************
*****************************
Movie173: [nan  5.  3.]
Total No.of.unique : 2
Movie173:float64
Total.No.Of.Value Count
 5.0    13
3.0    2
Name: Movie173, dtype: int64
*************************************************************************
*****************************
Movie174: [nan  5.  4.]
Total No.of.unique : 2
Movie174:float64
```

```
Total.No.Of.Value Count
 5.0    3
4.0    1
Name: Movie174, dtype: int64
************************************************************************
******************************
Movie175: [nan  5.]
Total No.of.unique : 1
Movie175:float64
Total.No.Of.Value Count
 5.0    1
Name: Movie175, dtype: int64
************************************************************************
******************************
Movie176: [nan  5.]
Total No.of.unique : 1
Movie176:float64
Total.No.Of.Value Count
 5.0    1
Name: Movie176, dtype: int64
************************************************************************
******************************
Movie177: [nan  5.]
Total No.of.unique : 1
Movie177:float64
Total.No.Of.Value Count
 5.0    1
Name: Movie177, dtype: int64
************************************************************************
******************************
Movie178: [nan  5.]
Total No.of.unique : 1
Movie178:float64
Total.No.Of.Value Count
 5.0    1
Name: Movie178, dtype: int64
************************************************************************
******************************
Movie179: [nan  5.  3.]
Total No.of.unique : 2
Movie179:float64
Total.No.Of.Value Count
 5.0    6
3.0    1
Name: Movie179, dtype: int64
************************************************************************
******************************
Movie180: [nan  5.]
Total No.of.unique : 1
Movie180:float64
Total.No.Of.Value Count
 5.0    1
Name: Movie180, dtype: int64
************************************************************************
******************************
Movie181: [nan  5.]
Total No.of.unique : 1
Movie181:float64
Total.No.Of.Value Count
 5.0    2
```

```
Name: Movie181, dtype: int64
*************************************************************************
******************************
Movie182: [nan  4.  5.  2.]
Total No.of.unique : 3
Movie182:float64
Total.No.Of.Value Count
 5.0    24
4.0     5
2.0     1
Name: Movie182, dtype: int64
*************************************************************************
******************************
Movie183: [nan  5.]
Total No.of.unique : 1
Movie183:float64
Total.No.Of.Value Count
 5.0    1
Name: Movie183, dtype: int64
*************************************************************************
******************************
Movie184: [nan  5.  4.  3.]
Total No.of.unique : 3
Movie184:float64
Total.No.Of.Value Count
 5.0    15
4.0     1
3.0     1
Name: Movie184, dtype: int64
*************************************************************************
******************************
Movie185: [nan  3.  5.  4.]
Total No.of.unique : 3
Movie185:float64
Total.No.Of.Value Count
 5.0    20
4.0     3
3.0     1
Name: Movie185, dtype: int64
*************************************************************************
******************************
Movie186: [nan  5.]
Total No.of.unique : 1
Movie186:float64
Total.No.Of.Value Count
 5.0    9
Name: Movie186, dtype: int64
*************************************************************************
******************************
Movie187: [nan  5.]
Total No.of.unique : 1
Movie187:float64
Total.No.Of.Value Count
 5.0    1
Name: Movie187, dtype: int64
*************************************************************************
******************************
Movie188: [nan  5.]
Total No.of.unique : 1
Movie188:float64
```

```
Total.No.Of.Value Count
 5.0    6
Name: Movie188, dtype: int64
***********************************************************************
*****************************
Movie189: [nan  5.]
Total No.of.unique : 1
Movie189:float64
Total.No.Of.Value Count
 5.0    5
Name: Movie189, dtype: int64
***********************************************************************
*****************************
Movie190: [nan  5.  3.]
Total No.of.unique : 2
Movie190:float64
Total.No.Of.Value Count
 5.0    6
3.0    1
Name: Movie190, dtype: int64
***********************************************************************
*****************************
Movie191: [nan  5.]
Total No.of.unique : 1
Movie191:float64
Total.No.Of.Value Count
 5.0    6
Name: Movie191, dtype: int64
***********************************************************************
*****************************
Movie192: [nan  5.  4.  3.]
Total No.of.unique : 3
Movie192:float64
Total.No.Of.Value Count
 5.0    6
4.0    3
3.0    1
Name: Movie192, dtype: int64
***********************************************************************
*****************************
Movie193: [nan  3.  5.  4.]
Total No.of.unique : 3
Movie193:float64
Total.No.Of.Value Count
 5.0    5
3.0    1
4.0    1
Name: Movie193, dtype: int64
***********************************************************************
*****************************
Movie194: [nan  5.  4.]
Total No.of.unique : 2
Movie194:float64
Total.No.Of.Value Count
 5.0    5
4.0    2
Name: Movie194, dtype: int64
***********************************************************************
*****************************
Movie195: [nan  4.]
```

```
                    Total No.of.unique : 1
                    Movie195:float64
                    Total.No.Of.Value Count
                     4.0    1
                    Name: Movie195, dtype: int64
                    **************************************************************
                    *****************************
                    Movie196: [nan  5.  4.]
                    Total No.of.unique : 2
                    Movie196:float64
                    Total.No.Of.Value Count
                     5.0    8
                    4.0    1
                    Name: Movie196, dtype: int64
                    **************************************************************
                    *****************************
                    Movie197: [nan  4.  5.  1.]
                    Total No.of.unique : 3
                    Movie197:float64
                    Total.No.Of.Value Count
                     4.0    2
                    5.0    2
                    1.0    1
                    Name: Movie197, dtype: int64
                    **************************************************************
                    *****************************
                    Movie198: [nan  5.]
                    Total No.of.unique : 1
                    Movie198:float64
                    Total.No.Of.Value Count
                     5.0    2
                    Name: Movie198, dtype: int64
                    **************************************************************
                    *****************************
                    Movie199: [nan  5.]
                    Total No.of.unique : 1
                    Movie199:float64
                    Total.No.Of.Value Count
                     5.0    1
                    Name: Movie199, dtype: int64
                    **************************************************************
                    *****************************
                    Movie200: [nan  5.  4.]
                    Total No.of.unique : 2
                    Movie200:float64
                    Total.No.Of.Value Count
                     5.0    5
                    4.0    3
                    Name: Movie200, dtype: int64
                    **************************************************************
                    *****************************
                    Movie201: [nan  5.  3.]
                    Total No.of.unique : 2
                    Movie201:float64
                    Total.No.Of.Value Count
                     5.0    2
                    3.0    1
                    Name: Movie201, dtype: int64
                    **************************************************************
                    *****************************
```

```
Movie202: [nan  5.  1.]
Total No.of.unique : 2
Movie202:float64
Total.No.Of.Value Count
 5.0    5
1.0    1
Name: Movie202, dtype: int64
***********************************************************************
******************************
Movie203: [nan  3.]
Total No.of.unique : 1
Movie203:float64
Total.No.Of.Value Count
 3.0    1
Name: Movie203, dtype: int64
```

In [ ]: `data.describe().T`

Out[ ]:

	count	mean	std	min	25%	50%	75%	max
Movie1	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie2	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie3	1.0	2.000000	NaN	2.0	2.00	2.0	2.00	2.0
Movie4	2.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0
Movie5	29.0	4.103448	1.496301	1.0	4.00	5.0	5.00	5.0
Movie6	1.0	4.000000	NaN	4.0	4.00	4.0	4.00	4.0
Movie7	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie8	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie9	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie10	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie11	2.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0
Movie12	5.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0
Movie13	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie14	1.0	4.000000	NaN	4.0	4.00	4.0	4.00	4.0
Movie15	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie16	320.0	4.518750	0.795535	1.0	4.00	5.0	5.00	5.0
Movie17	1.0	3.000000	NaN	3.0	3.00	3.0	3.00	3.0
Movie18	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie19	2.0	3.500000	2.121320	2.0	2.75	3.5	4.25	5.0
Movie20	1.0	3.000000	NaN	3.0	3.00	3.0	3.00	3.0
Movie21	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie22	2.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0
Movie23	3.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0
Movie24	5.0	4.400000	1.341641	2.0	5.00	5.0	5.00	5.0
Movie25	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie26	3.0	3.000000	1.732051	1.0	2.50	4.0	4.00	4.0
Movie27	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie28	3.0	3.333333	1.527525	2.0	2.50	3.0	4.00	5.0
Movie29	243.0	4.806584	0.655269	1.0	5.00	5.0	5.00	5.0
Movie30	2.0	4.500000	0.707107	4.0	4.25	4.5	4.75	5.0
Movie31	2.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0
Movie32	2.0	4.500000	0.707107	4.0	4.25	4.5	4.75	5.0
Movie33	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie34	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie35	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie36	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0

	count	mean	std	min	25%	50%	75%	max
Movie37	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie38	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie39	4.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0
Movie40	3.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0
Movie41	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie42	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie43	7.0	4.857143	0.377964	4.0	5.00	5.0	5.00	5.0
Movie44	2.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0
Movie45	1.0	1.000000	NaN	1.0	1.00	1.0	1.00	1.0
Movie46	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie47	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie48	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie49	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie50	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie51	2.0	4.500000	0.707107	4.0	4.25	4.5	4.75	5.0
Movie52	17.0	3.470588	1.545867	1.0	2.00	4.0	5.00	5.0
Movie53	3.0	2.000000	1.732051	1.0	1.00	1.0	2.50	4.0
Movie54	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie55	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie56	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie57	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie58	1.0	1.000000	NaN	1.0	1.00	1.0	1.00	1.0
Movie59	1.0	2.000000	NaN	2.0	2.00	2.0	2.00	2.0
Movie60	1.0	1.000000	NaN	1.0	1.00	1.0	1.00	1.0
Movie61	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie62	4.0	3.000000	2.309401	1.0	1.00	3.0	5.00	5.0
Movie63	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie64	1.0	3.000000	NaN	3.0	3.00	3.0	3.00	3.0
Movie65	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie66	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie67	1.0	1.000000	NaN	1.0	1.00	1.0	1.00	1.0
Movie68	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie69	1.0	1.000000	NaN	1.0	1.00	1.0	1.00	1.0
Movie70	2.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0
Movie71	1.0	4.000000	NaN	4.0	4.00	4.0	4.00	4.0
Movie72	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie73	1.0	2.000000	NaN	2.0	2.00	2.0	2.00	2.0
Movie74	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0

	count	mean	std	min	25%	50%	75%	max
Movie75	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie76	2.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0
Movie77	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie78	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie79	2.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0
Movie80	1.0	4.000000	NaN	4.0	4.00	4.0	4.00	4.0
Movie81	12.0	4.416667	1.164500	1.0	4.00	5.0	5.00	5.0
Movie82	2.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0
Movie83	1.0	3.000000	NaN	3.0	3.00	3.0	3.00	3.0
Movie84	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie85	3.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0
Movie86	21.0	4.666667	0.966092	1.0	5.00	5.0	5.00	5.0
Movie87	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie88	1.0	4.000000	NaN	4.0	4.00	4.0	4.00	4.0
Movie89	83.0	4.578313	0.912254	1.0	5.00	5.0	5.00	5.0
Movie90	18.0	1.833333	1.504894	1.0	1.00	1.0	1.75	5.0
Movie91	128.0	4.578125	1.000861	1.0	5.00	5.0	5.00	5.0
Movie92	101.0	4.772277	0.630574	2.0	5.00	5.0	5.00	5.0
Movie93	2.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0
Movie94	3.0	4.333333	0.577350	4.0	4.00	4.0	4.50	5.0
Movie95	6.0	3.333333	1.966384	1.0	1.50	4.0	5.00	5.0
Movie96	3.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0
Movie97	5.0	4.800000	0.447214	4.0	5.00	5.0	5.00	5.0
Movie98	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie99	2.0	4.000000	1.414214	3.0	3.50	4.0	4.50	5.0
Movie100	1.0	4.000000	NaN	4.0	4.00	4.0	4.00	4.0
Movie101	5.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0
Movie102	2.0	4.000000	1.414214	3.0	3.50	4.0	4.50	5.0
Movie103	272.0	4.562500	1.039688	1.0	5.00	5.0	5.00	5.0
Movie104	4.0	4.500000	0.577350	4.0	4.00	4.5	5.00	5.0
Movie105	3.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0
Movie106	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie107	39.0	4.000000	1.468977	1.0	3.50	5.0	5.00	5.0
Movie108	54.0	4.666667	0.752355	1.0	5.00	5.0	5.00	5.0
Movie109	13.0	4.384615	1.043908	2.0	4.00	5.0	5.00	5.0
Movie110	8.0	4.875000	0.353553	4.0	5.00	5.0	5.00	5.0
Movie111	39.0	4.641026	0.873203	1.0	5.00	5.0	5.00	5.0
Movie112	2.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0

	count	mean	std	min	25%	50%	75%	max
Movie113	4.0	3.750000	1.500000	2.0	2.75	4.0	5.00	5.0
Movie114	7.0	4.428571	1.133893	2.0	4.50	5.0	5.00	5.0
Movie115	1.0	4.000000	NaN	4.0	4.00	4.0	4.00	4.0
Movie116	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie117	11.0	4.727273	0.904534	2.0	5.00	5.0	5.00	5.0
Movie118	5.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0
Movie119	8.0	4.375000	1.187735	2.0	4.50	5.0	5.00	5.0
Movie120	3.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0
Movie121	4.0	4.250000	0.957427	3.0	3.75	4.5	5.00	5.0
Movie122	4.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0
Movie123	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie124	4.0	4.750000	0.500000	4.0	4.75	5.0	5.00	5.0
Movie125	5.0	4.800000	0.447214	4.0	5.00	5.0	5.00	5.0
Movie126	2.0	4.500000	0.707107	4.0	4.25	4.5	4.75	5.0
Movie127	2313.0	4.111976	1.420621	1.0	4.00	5.0	5.00	5.0
Movie128	3.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0
Movie129	3.0	4.000000	1.732051	2.0	3.50	5.0	5.00	5.0
Movie130	4.0	4.500000	1.000000	3.0	4.50	5.0	5.00	5.0
Movie131	4.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0
Movie132	3.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0
Movie133	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie134	6.0	4.000000	1.264911	2.0	3.25	4.5	5.00	5.0
Movie135	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie136	2.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0
Movie137	3.0	4.000000	1.732051	2.0	3.50	5.0	5.00	5.0
Movie138	13.0	4.076923	1.382120	1.0	3.00	5.0	5.00	5.0
Movie139	4.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0
Movie140	578.0	4.833910	0.609081	1.0	5.00	5.0	5.00	5.0
Movie141	7.0	4.142857	1.214986	2.0	3.50	5.0	5.00	5.0
Movie142	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie143	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie144	1.0	1.000000	NaN	1.0	1.00	1.0	1.00	1.0
Movie145	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie146	1.0	4.000000	NaN	4.0	4.00	4.0	4.00	4.0
Movie147	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie148	2.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0
Movie149	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie150	3.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0

	count	mean	std	min	25%	50%	75%	max
Movie151	2.0	4.500000	0.707107	4.0	4.25	4.5	4.75	5.0
Movie152	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie153	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie154	1.0	1.000000	NaN	1.0	1.00	1.0	1.00	1.0
Movie155	2.0	4.000000	1.414214	3.0	3.50	4.0	4.50	5.0
Movie156	1.0	4.000000	NaN	4.0	4.00	4.0	4.00	4.0
Movie157	4.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0
Movie158	66.0	4.818182	0.630240	1.0	5.00	5.0	5.00	5.0
Movie159	2.0	3.000000	1.414214	2.0	2.50	3.0	3.50	4.0
Movie160	6.0	4.666667	0.516398	4.0	4.25	5.0	5.00	5.0
Movie161	25.0	4.600000	0.707107	3.0	4.00	5.0	5.00	5.0
Movie162	15.0	4.866667	0.516398	3.0	5.00	5.0	5.00	5.0
Movie163	13.0	4.461538	0.877058	3.0	4.00	5.0	5.00	5.0
Movie164	4.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0
Movie165	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie166	2.0	4.000000	0.000000	4.0	4.00	4.0	4.00	4.0
Movie167	4.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0
Movie168	4.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0
Movie169	4.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0
Movie170	3.0	4.333333	1.154701	3.0	4.00	5.0	5.00	5.0
Movie171	1.0	2.000000	NaN	2.0	2.00	2.0	2.00	2.0
Movie172	2.0	4.500000	0.707107	4.0	4.25	4.5	4.75	5.0
Movie173	15.0	4.733333	0.703732	3.0	5.00	5.0	5.00	5.0
Movie174	4.0	4.750000	0.500000	4.0	4.75	5.0	5.00	5.0
Movie175	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie176	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie177	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie178	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie179	7.0	4.714286	0.755929	3.0	5.00	5.0	5.00	5.0
Movie180	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie181	2.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0
Movie182	30.0	4.733333	0.639684	2.0	5.00	5.0	5.00	5.0
Movie183	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie184	17.0	4.823529	0.528594	3.0	5.00	5.0	5.00	5.0
Movie185	24.0	4.791667	0.508977	3.0	5.00	5.0	5.00	5.0
Movie186	9.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0
Movie187	1.0	5.000000	NaN	5.0	5.00	5.0	5.00	5.0
Movie188	6.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0

	count	mean	std	min	25%	50%	75%	max
Movie189	5.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0
Movie190	7.0	4.714286	0.755929	3.0	5.00	5.0	5.00	5.0
Movie191	6.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0
Movie192	10.0	4.500000	0.707107	3.0	4.00	5.0	5.00	5.0
Movie193	7.0	4.571429	0.786796	3.0	4.50	5.0	5.00	5.0
Movie194	7.0	4.714286	0.487950	4.0	4.50	5.0	5.00	5.0
Movie195	1.0	4.000000	NaN	4.0	4.00	4.0	4.00	4.0
Movie196	9.0	4.888889	0.333333	4.0	5.00	5.0	5.00	5.0
Movie197	5.0	3.800000	1.643168	1.0	4.00	4.0	5.00	5.0
Movie198	2.0	5.000000	0.000000	5.0	5.00	5.0	5.00	5.0

Which movies have maximum views/ratings?

```
In [ ]:  #highest views
         data.describe().T['count'].sort_values(ascending=False)[:1].to_frame()
```

Out[ ]:

	count
Movie127	2313.0

```
In [ ]:  #highest rating
         data.drop('user_id',axis=1).sum().sort_values(ascending=False)[:1].to_fra
         me()
```

Out[ ]:

	0
Movie127	9511.0

What is the average rating for each movie? Define the top 5 movies with the maximum ratings.

```
In [ ]:  data.drop('user_id',axis=1).mean().sort_values(ascending=False)[:5].to_fr
         ame()
```

Out[ ]:

	0
Movie1	5.0
Movie66	5.0
Movie76	5.0
Movie75	5.0
Movie74	5.0

Define the top 5 movies with the least audience.

In [ ]: ```python
data.describe().T['count'].sort_values(ascending=True)[:5].to_frame()
```

Out[ ]:

	count
Movie1	1.0
Movie71	1.0
Movie145	1.0
Movie69	1.0
Movie68	1.0

In [ ]: ```python
data.columns[0]
```

Out[ ]: `'user_id'`

In [ ]: ```python
data.columns[1:]
```

Out[ ]:
```
Index(['Movie1', 'Movie2', 'Movie3', 'Movie4', 'Movie5', 'Movie6', 'Movi
e7',
       'Movie8', 'Movie9', 'Movie10',
       ...
       'Movie197', 'Movie198', 'Movie199', 'Movie200', 'Movie201', 'Movi
e202',
       'Movie203', 'Movie204', 'Movie205', 'Movie206'],
      dtype='object', length=206)
```

In [ ]: ```python
data_melt=pd.melt(data,id_vars=['user_id'],value_vars=data.columns[1:],va
r_name="Movies",value_name="Rating")
```

In [ ]: ```python
data = pd.melt(data,id_vars=['user_id'],value_vars=data.columns[1:],var_n
ame="Movies",value_name="Rating")
```

In [ ]: ```python
data.head()
```

Out[ ]:

|  | user_id | Movies | Rating |
|---|---|---|---|
| **0** | A3R5OBKS7OM2IR | Movie1 | 5.0 |
| **1** | AH3QC2PC1VTGP | Movie1 | NaN |
| **2** | A3LKP6WPMP9UKX | Movie1 | NaN |
| **3** | AVIY68KEPQ5ZD | Movie1 | NaN |
| **4** | A1CV1WROP5KTTW | Movie1 | NaN |

```
In [ ]: for column in data:
            print(f'{column}: {data[column].unique()}')
            print(f'Total No.of.unique : {data[column].nunique()}')
            print(f'{column}:{data[column].dtypes}')
            print(f'{column}:{data[column].isnull().any()}')
            print('**********************************************************
        **************************************')
```

```
user_id: ['A3R5OBKS7OM2IR' 'AH3QC2PC1VTGP' 'A3LKP6WPMP9UKX' ... 'A5HG6WF
ZLO10D'
 'A3UU690TWXCG1X' 'AI4J762YI6S06']
Total No.of.unique : 4848
user_id:object
user_id:False
****************************************************************************
******************************
Movies: ['Movie1' 'Movie2' 'Movie3' 'Movie4' 'Movie5' 'Movie6' 'Movie7'
'Movie8'
 'Movie9' 'Movie10' 'Movie11' 'Movie12' 'Movie13' 'Movie14' 'Movie15'
 'Movie16' 'Movie17' 'Movie18' 'Movie19' 'Movie20' 'Movie21' 'Movie22'
 'Movie23' 'Movie24' 'Movie25' 'Movie26' 'Movie27' 'Movie28' 'Movie29'
 'Movie30' 'Movie31' 'Movie32' 'Movie33' 'Movie34' 'Movie35' 'Movie36'
 'Movie37' 'Movie38' 'Movie39' 'Movie40' 'Movie41' 'Movie42' 'Movie43'
 'Movie44' 'Movie45' 'Movie46' 'Movie47' 'Movie48' 'Movie49' 'Movie50'
 'Movie51' 'Movie52' 'Movie53' 'Movie54' 'Movie55' 'Movie56' 'Movie57'
 'Movie58' 'Movie59' 'Movie60' 'Movie61' 'Movie62' 'Movie63' 'Movie64'
 'Movie65' 'Movie66' 'Movie67' 'Movie68' 'Movie69' 'Movie70' 'Movie71'
 'Movie72' 'Movie73' 'Movie74' 'Movie75' 'Movie76' 'Movie77' 'Movie78'
 'Movie79' 'Movie80' 'Movie81' 'Movie82' 'Movie83' 'Movie84' 'Movie85'
 'Movie86' 'Movie87' 'Movie88' 'Movie89' 'Movie90' 'Movie91' 'Movie92'
 'Movie93' 'Movie94' 'Movie95' 'Movie96' 'Movie97' 'Movie98' 'Movie99'
 'Movie100' 'Movie101' 'Movie102' 'Movie103' 'Movie104' 'Movie105'
 'Movie106' 'Movie107' 'Movie108' 'Movie109' 'Movie110' 'Movie111'
 'Movie112' 'Movie113' 'Movie114' 'Movie115' 'Movie116' 'Movie117'
 'Movie118' 'Movie119' 'Movie120' 'Movie121' 'Movie122' 'Movie123'
 'Movie124' 'Movie125' 'Movie126' 'Movie127' 'Movie128' 'Movie129'
 'Movie130' 'Movie131' 'Movie132' 'Movie133' 'Movie134' 'Movie135'
 'Movie136' 'Movie137' 'Movie138' 'Movie139' 'Movie140' 'Movie141'
 'Movie142' 'Movie143' 'Movie144' 'Movie145' 'Movie146' 'Movie147'
 'Movie148' 'Movie149' 'Movie150' 'Movie151' 'Movie152' 'Movie153'
 'Movie154' 'Movie155' 'Movie156' 'Movie157' 'Movie158' 'Movie159'
 'Movie160' 'Movie161' 'Movie162' 'Movie163' 'Movie164' 'Movie165'
 'Movie166' 'Movie167' 'Movie168' 'Movie169' 'Movie170' 'Movie171'
 'Movie172' 'Movie173' 'Movie174' 'Movie175' 'Movie176' 'Movie177'
 'Movie178' 'Movie179' 'Movie180' 'Movie181' 'Movie182' 'Movie183'
 'Movie184' 'Movie185' 'Movie186' 'Movie187' 'Movie188' 'Movie189'
 'Movie190' 'Movie191' 'Movie192' 'Movie193' 'Movie194' 'Movie195'
 'Movie196' 'Movie197' 'Movie198' 'Movie199' 'Movie200' 'Movie201'
 'Movie202' 'Movie203' 'Movie204' 'Movie205' 'Movie206']
Total No.of.unique : 206
Movies:object
Movies:False
****************************************************************************
******************************
Rating: [ 5. nan  2.  1.  4.  3.]
Total No.of.unique : 5
Rating:float64
Rating:True
****************************************************************************
******************************
```

In [ ]: `data.shape`

Out[ ]: (998688, 3)

In [ ]: `data = data.fillna(0)`

```
In [ ]:  for column in data:
            print(f'{column}: {data[column].unique()}')
            print(f'Total No.of.unique : {data[column].nunique()}')
            print(f'{column}:{data[column].dtypes}')
            print(f'{column}:{data[column].isnull().any()}')
            print('****************************************************************
        **************************************')
```

```
user_id: ['A3R5OBKS7OM2IR' 'AH3QC2PC1VTGP' 'A3LKP6WPMP9UKX' ... 'A5HG6WF
ZLO10D'
  'A3UU690TWXCG1X' 'AI4J762YI6S06']
Total No.of.unique : 4848
user_id:object
user_id:False
****************************************************************************
******************************
Movies: ['Movie1' 'Movie2' 'Movie3' 'Movie4' 'Movie5' 'Movie6' 'Movie7'
'Movie8'
  'Movie9' 'Movie10' 'Movie11' 'Movie12' 'Movie13' 'Movie14' 'Movie15'
  'Movie16' 'Movie17' 'Movie18' 'Movie19' 'Movie20' 'Movie21' 'Movie22'
  'Movie23' 'Movie24' 'Movie25' 'Movie26' 'Movie27' 'Movie28' 'Movie29'
  'Movie30' 'Movie31' 'Movie32' 'Movie33' 'Movie34' 'Movie35' 'Movie36'
  'Movie37' 'Movie38' 'Movie39' 'Movie40' 'Movie41' 'Movie42' 'Movie43'
  'Movie44' 'Movie45' 'Movie46' 'Movie47' 'Movie48' 'Movie49' 'Movie50'
  'Movie51' 'Movie52' 'Movie53' 'Movie54' 'Movie55' 'Movie56' 'Movie57'
  'Movie58' 'Movie59' 'Movie60' 'Movie61' 'Movie62' 'Movie63' 'Movie64'
  'Movie65' 'Movie66' 'Movie67' 'Movie68' 'Movie69' 'Movie70' 'Movie71'
  'Movie72' 'Movie73' 'Movie74' 'Movie75' 'Movie76' 'Movie77' 'Movie78'
  'Movie79' 'Movie80' 'Movie81' 'Movie82' 'Movie83' 'Movie84' 'Movie85'
  'Movie86' 'Movie87' 'Movie88' 'Movie89' 'Movie90' 'Movie91' 'Movie92'
  'Movie93' 'Movie94' 'Movie95' 'Movie96' 'Movie97' 'Movie98' 'Movie99'
  'Movie100' 'Movie101' 'Movie102' 'Movie103' 'Movie104' 'Movie105'
  'Movie106' 'Movie107' 'Movie108' 'Movie109' 'Movie110' 'Movie111'
  'Movie112' 'Movie113' 'Movie114' 'Movie115' 'Movie116' 'Movie117'
  'Movie118' 'Movie119' 'Movie120' 'Movie121' 'Movie122' 'Movie123'
  'Movie124' 'Movie125' 'Movie126' 'Movie127' 'Movie128' 'Movie129'
  'Movie130' 'Movie131' 'Movie132' 'Movie133' 'Movie134' 'Movie135'
  'Movie136' 'Movie137' 'Movie138' 'Movie139' 'Movie140' 'Movie141'
  'Movie142' 'Movie143' 'Movie144' 'Movie145' 'Movie146' 'Movie147'
  'Movie148' 'Movie149' 'Movie150' 'Movie151' 'Movie152' 'Movie153'
  'Movie154' 'Movie155' 'Movie156' 'Movie157' 'Movie158' 'Movie159'
  'Movie160' 'Movie161' 'Movie162' 'Movie163' 'Movie164' 'Movie165'
  'Movie166' 'Movie167' 'Movie168' 'Movie169' 'Movie170' 'Movie171'
  'Movie172' 'Movie173' 'Movie174' 'Movie175' 'Movie176' 'Movie177'
  'Movie178' 'Movie179' 'Movie180' 'Movie181' 'Movie182' 'Movie183'
  'Movie184' 'Movie185' 'Movie186' 'Movie187' 'Movie188' 'Movie189'
  'Movie190' 'Movie191' 'Movie192' 'Movie193' 'Movie194' 'Movie195'
  'Movie196' 'Movie197' 'Movie198' 'Movie199' 'Movie200' 'Movie201'
  'Movie202' 'Movie203' 'Movie204' 'Movie205' 'Movie206']
Total No.of.unique : 206
Movies:object
Movies:False
****************************************************************************
******************************
Rating: [5. 0. 2. 1. 4. 3.]
Total No.of.unique : 6
Rating:float64
Rating:False
****************************************************************************
******************************
```

```
In [ ]: from surprise import Reader
        from surprise import accuracy
        from surprise import Dataset
        from surprise.model_selection import train_test_split
        from surprise import SVD
        from surprise.model_selection import cross_validate
```

```
In [ ]: rd = Reader()
        data = Dataset.load_from_df(data,reader=rd)
        data
```

Out[ ]: <surprise.dataset.DatasetAutoFolds at 0x7eff63249690>

```
In [ ]: train_data, test_data = train_test_split(data,test_size=0.25)
```

```
In [ ]: #Using SVD (Singular Value Descomposition)
        svd = SVD()
        svd.fit(train_data)
```

Out[ ]: <surprise.prediction_algorithms.matrix_factorization.SVD at 0x7eff61849f
        90>

```
In [ ]: pred = svd.test(test_data) #predictions
```

```
In [ ]: #RMSE(Root Mean Square Error)
        accuracy.rmse(pred)
```

RMSE: 1.0251

Out[ ]: 1.025100549456614

```
In [ ]: #MSE(Mean Absolute Error)
        accuracy.mae(pred)
```

MAE: 1.0116

Out[ ]: 1.011627022218822

```
In [ ]: cross_validate(svd,data,measures=['RMSE','MAE'],cv=3, verbose=True)
```

Evaluating RMSE, MAE of algorithm SVD on 3 split(s).

```
                 Fold 1  Fold 2  Fold 3  Mean    Std
RMSE (testset)   1.0263  1.0260  1.0263  1.0262  0.0001
MAE (testset)    1.0121  1.0120  1.0121  1.0121  0.0000
Fit time         42.79   40.98   40.54   41.44   0.98
Test time        3.97    3.47    3.94    3.80    0.23
```

Out[ ]: {'fit_time': (42.79398226737976, 40.978816986083984, 40.54198789596557
        6),
         'test_mae': array([1.01207576, 1.01204471, 1.01214159]),
         'test_rmse': array([1.02627851, 1.02596885, 1.02629487]),
         'test_time': (3.972747564315796, 3.4738693237304688, 3.943306446075439
        5)}

```python
In [ ]: def repeat(ML_Type,Data_F):
            rd = Reader()
            data = Dataset.load_from_df(Data_F,reader=rd)
            print(cross_validate(ML_Type, data, measures = ['RMSE', 'MAE'], cv =
        3, verbose = True))
            print("--"*15)
            usr_id = 'A3R5OBKS7OM2IR'
            mv = 'Movie1'
            r_u = 5.0
            print(ML_Type.predict(usr_id,mv,r_ui = r_u,verbose=True))
            print("--"*15)
```

```python
In [ ]: repeat(SVD(),data_melt.fillna(data_melt['Rating'].mean()))
```

```
Evaluating RMSE, MAE of algorithm SVD on 3 split(s).

                   Fold 1  Fold 2  Fold 3  Mean    Std
RMSE (testset)     0.0883  0.0858  0.0844  0.0862  0.0016
MAE (testset)      0.0098  0.0102  0.0100  0.0100  0.0002
Fit time           40.82   39.18   39.01   39.67   0.82
Test time          3.77    4.06    3.54    3.79    0.21
{'test_rmse': array([0.08828181, 0.08577409, 0.08443687]), 'test_mae': a
rray([0.00979313, 0.0102259 , 0.01000585]), 'fit_time': (40.821784496307
37, 39.18067193031311, 39.01208472251892), 'test_time': (3.7724840641021
73, 4.0598225593566895, 3.5356693267822266)}
------------------------------
user: A3R5OBKS7OM2IR item: Movie1    r_ui = 5.00   est = 4.39   {'was_i
mpossible': False}
user: A3R5OBKS7OM2IR item: Movie1    r_ui = 5.00   est = 4.39   {'was_i
mpossible': False}
------------------------------
```

```python
In [ ]: #trying grid search and find optimum hyperparameter value for n_factors
        from surprise.model_selection import GridSearchCV
```

```python
In [ ]: param_grid = {'n_epochs':[20,30],
                      'lr_all':[0.005,0.001],
                      'n_factors':[50,100]}

        GS = GridSearchCV(SVD,param_grid,measures=['rmse','mae'],cv=3)
        data2 = Dataset.load_from_df(data_melt.fillna(data_melt['Rating'].mean
        ()),reader=rd)
        GS.fit(data2)
```

```python
In [ ]: print(GS.best_score["rmse"])
        print(GS.best_params["rmse"])
```

```
0.08482017649263586
{'n_epochs': 30, 'lr_all': 0.001, 'n_factors': 50}
```