Netflix Dataset

Big-Data Analysis with Python



This Netflix Dataset has information about the TV Shows and Movies available on Netflix till 2021.

This dataset is collected from Flixable which is a third-party Netflix search engine, and available on Kaggle website for free.

```
# Importing the dataset
import pandas as pd
data = pd.read csv(r"C:\Users\mande\Desktop\Netflix - Project\Netflix
Dataset.csv")
                               # to import pandas library
data
     Show_Id Category
                                                          Title \
          s1 TV Show
0
                                                              3%
1
          s2
                Movie
                                                          07:19
2
                Movie
                                                           23:59
          s3
3
          s4
                Movie
                                                              9
4
          s5
                Movie
                                                              21
         . . .
                 . . .
                                                             . . .
7784
     s7783
                Movie
                                                            Zozo
                                                          Zubaan
7785
       s7784
                Movie
7786
       s7785
                Movie
                                              Zulu Man in Japan
                                          Zumbo's Just Desserts
7787
       s7786 TV Show
7788
       s7787
                Movie ZZ TOP: THAT LITTLE OL' BAND FROM TEXAS
```

```
Director
                                                                        Cast \
                          João Miguel, Bianca Comparato, Michel Gomes, R...
0
                    NaN
                          Demián Bichir, Héctor Bonilla, Oscar Serrano, ...
      Jorge Michel Grau
1
2
           Gilbert Chan
                          Tedd Chan, Stella Chung, Henley Hii, Lawrence ...
                          Elijah Wood, John C. Reilly, Jennifer Connelly...
3
            Shane Acker
4
         Robert Luketic
                          Jim Sturgess, Kevin Spacey, Kate Bosworth, Aar...
                          Imad Creidi, Antoinette Turk, Elias Gergi, Car...
7784
            Josef Fares
            Mozez Singh
                          Vicky Kaushal, Sarah-Jane Dias, Raaghav Chanan...
7785
7786
                    NaN
                                                                     Nasty C
7787
                    NaN
                                                  Adriano Zumbo, Rachel Khoo
7788
               Sam Dunn
                                                                          NaN
                                                  Country
                                                                 Release_Date
0
                                                   Brazil
                                                              August 14, 2020
1
                                                   Mexico
                                                            December 23, 2016
2
                                                            December 20, 2018
                                                Singapore
3
                                           United States
                                                            November 16, 2017
4
                                           United States
                                                              January 1, 2020
                                                             October 19, 2020
7784
      Sweden, Czech Republic, United Kingdom, Denmar...
                                                                March 2, 2019
7785
                                                    India
7786
                                                           September 25, 2020
                                                      NaN
                                                             October 31, 2020
7787
                                                Australia
7788
                  United Kingdom, Canada, United States
                                                                March 1, 2020
     Rating
              Duration
                                                                        Type
             4 Seasons
                         International TV Shows, TV Dramas, TV Sci-Fi &...
0
      TV-MA
                93 min
1
      TV-MA
                                              Dramas, International Movies
2
                78 min
                                       Horror Movies, International Movies
          R
                        Action & Adventure, Independent Movies, Sci-Fi...
3
      PG-13
                80 min
4
      PG-13
               123 min
                                                                     Dramas
      TV-MA
                                              Dramas, International Movies
7784
                99 min
                            Dramas, International Movies, Music & Musicals
      TV-14
7785
               111 min
      TV-MA
                         Documentaries, International Movies, Music & M...
7786
                44 min
      TV-PG
                                        International TV Shows, Reality TV
7787
              1 Season
                                           Documentaries, Music & Musicals
7788
      TV-MA
                90 min
                                             Description
      In a future where the elite inhabit an island ...
0
1
      After a devastating earthquake hits Mexico Cit...
      When an army recruit is found dead, his fellow...
3
      In a postapocalyptic world, rag-doll robots hi...
4
      A brilliant group of students become card-coun...
      When Lebanon's Civil War deprives Zozo of his ...
7784
```

```
7785 A scrappy but poor boy worms his way into a ty...
7786 In this documentary, South African rapper Nast...
      Dessert wizard Adriano Zumbo looks for the nex...
7787
     This documentary delves into the mystique behi...
7788
[7789 rows x 11 columns]
Getting some basic information about the dataset
1. head()
data.head()
                                                # to show top-5 records of
the dataset
  Show Id Category
                    Title
                                    Director \
0
       s1
         TV Show
                       3%
                                         NaN
                           Jorge Michel Grau
1
       s2
            Movie 07:19
2
       53
            Movie 23:59
                                Gilbert Chan
       s4
3
            Movie
                        9
                                 Shane Acker
                              Robert Luketic
       s5
             Movie
                       21
                                                Cast
                                                            Country \
0 João Miguel, Bianca Comparato, Michel Gomes, R...
                                                             Brazil
1 Demián Bichir, Héctor Bonilla, Oscar Serrano, ...
                                                             Mexico
2 Tedd Chan, Stella Chung, Henley Hii, Lawrence ...
                                                          Singapore
3 Elijah Wood, John C. Reilly, Jennifer Connelly...
                                                      United States
4 Jim Sturgess, Kevin Spacey, Kate Bosworth, Aar...
                                                      United States
        Release_Date Rating
                              Duration \
     August 14, 2020
                     TV-MA
                             4 Seasons
  December 23, 2016
                      TV-MA
                                93 min
1
2 December 20, 2018
                                78 min
  November 16, 2017
3
                      PG-13
                                80 min
     January 1, 2020
                      PG-13
                               123 min
                                                Type \
   International TV Shows, TV Dramas, TV Sci-Fi &...
1
                        Dramas, International Movies
                 Horror Movies, International Movies
2
3
  Action & Adventure, Independent Movies, Sci-Fi...
4
                                              Dramas
                                         Description
0 In a future where the elite inhabit an island ...
1 After a devastating earthquake hits Mexico Cit...
2 When an army recruit is found dead, his fellow...
3 In a postapocalyptic world, rag-doll robots hi...
4 A brilliant group of students become card-coun...
```

```
2. tail()
                                                  # to show bottom-5 records
data.tail()
of dataset
                                                          Title
     Show Id Category
                                                                    Director
7784
                                                                 Josef Fares
       s7783
                Movie
                                                           Zozo
7785
       57784
                Movie
                                                         Zubaan
                                                                 Mozez Singh
7786
       s7785
                Movie
                                             Zulu Man in Japan
                                                                         NaN
7787
                                          Zumbo's Just Desserts
                                                                         NaN
       s7786
             TV Show
7788
       s7787
                Movie ZZ TOP: THAT LITTLE OL' BAND FROM TEXAS
                                                                    Sam Dunn
                                                    Cast \
      Imad Creidi, Antoinette Turk, Elias Gergi, Car...
7785 Vicky Kaushal, Sarah-Jane Dias, Raaghav Chanan...
7786
                                                 Nasty C
7787
                             Adriano Zumbo, Rachel Khoo
7788
                                                     NaN
                                                 Country
                                                                Release_Date
     Sweden, Czech Republic, United Kingdom, Denmar...
7784
                                                            October 19, 2020
7785
                                                               March 2, 2019
                                                   India
7786
                                                          September 25, 2020
                                                     NaN
7787
                                               Australia
                                                            October 31, 2020
7788
                  United Kingdom, Canada, United States
                                                               March 1, 2020
            Duration
     Rating
                                                                     Type \
7784 TV-MA
               99 min
                                            Dramas, International Movies
7785
     TV-14
              111 min
                          Dramas, International Movies, Music & Musicals
7786 TV-MA
               44 min
                       Documentaries, International Movies, Music & M...
                                      International TV Shows, Reality TV
7787 TV-PG
             1 Season
                                          Documentaries, Music & Musicals
7788 TV-MA
               90 min
                                             Description
7784 When Lebanon's Civil War deprives Zozo of his ...
7785 A scrappy but poor boy worms his way into a ty...
7786 In this documentary, South African rapper Nast...
7787 Dessert wizard Adriano Zumbo looks for the nex...
7788 This documentary delves into the mystique behi...
3. shape
                                                 # to show the No. of Rows and
data.shape
Columns
(7789, 11)
4. size
data.size
                                               # to show No. of total
values(elements) in the dataset
```

```
5. columns
data.columns
                                               # to show each Column Name
Index(['Show_Id', 'Category', 'Title', 'Director', 'Cast', 'Country',
       'Release_Date', 'Rating', 'Duration', 'Type', 'Description'],
      dtype='object')
7. dtypes
data.dtypes
                                               # to show the data-type of
each column
Show_Id
                object
Category
                object
                object
Title
Director
                object
Cast
                object
Country
                object
Release_Date
                object
Rating
                object
Duration
                object
Type
                object
Description
                object
dtype: object
8. info()
                                              # To show indexes, columns,
data.info()
data-types of each column, memory at once
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 7789 entries, 0 to 7788
Data columns (total 11 columns):
 #
     Column
                   Non-Null Count Dtype
    -----
                   -----
                                   _ _ _ _
 0
    Show Id
                   7789 non-null
                                   object
 1
                                   object
    Category
                   7789 non-null
 2
    Title
                   7789 non-null
                                   object
 3
    Director
                                   object
                   5401 non-null
 4
    Cast
                   7071 non-null
                                   object
 5
    Country
                   7282 non-null
                                   object
 6
    Release_Date 7779 non-null
                                   object
 7
                   7782 non-null
                                   object
    Rating
     Duration
                   7789 non-null
                                   object
 9
     Type
                   7789 non-null
                                   object
 10 Description
                   7789 non-null
                                   object
dtypes: object(11)
memory usage: 669.5+ KB
```

Task.1. Is there any Duplicate Record in this dataset? If yes, then remove the duplicate records.

duplicate()

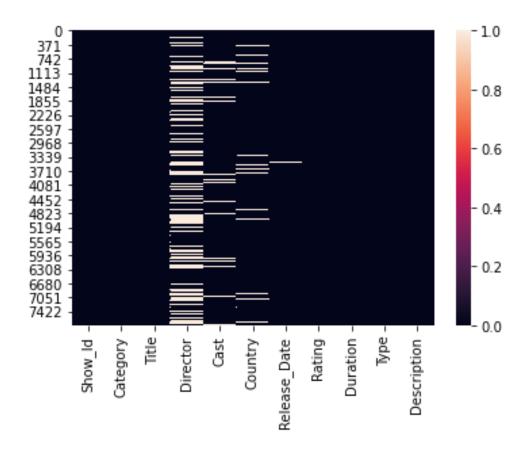
```
data.head()
  Show Id Category Title
                                    Director \
0
       s1 TV Show
                       3%
                                         NaN
1
       s2
            Movie 07:19 Jorge Michel Grau
2
       s3
            Movie 23:59
                                Gilbert Chan
3
       s4
            Movie
                       9
                                 Shane Acker
4
       s5
            Movie
                       21
                              Robert Luketic
                                                Cast
                                                            Country \
0 João Miguel, Bianca Comparato, Michel Gomes, R...
                                                             Brazil
1 Demián Bichir, Héctor Bonilla, Oscar Serrano, ...
                                                             Mexico
2 Tedd Chan, Stella Chung, Henley Hii, Lawrence ...
                                                          Singapore
3 Elijah Wood, John C. Reilly, Jennifer Connelly... United States
4 Jim Sturgess, Kevin Spacey, Kate Bosworth, Aar... United States
        Release Date Rating
                              Duration
     August 14, 2020
0
                     TV-MA
                             4 Seasons
  December 23, 2016
                      TV-MA
                                93 min
  December 20, 2018
                                78 min
                          R
3 November 16, 2017
                      PG-13
                                80 min
4
     January 1, 2020
                     PG-13
                               123 min
                                                Type \
0
  International TV Shows, TV Dramas, TV Sci-Fi &...
1
                        Dramas, International Movies
                 Horror Movies, International Movies
2
3
  Action & Adventure, Independent Movies, Sci-Fi...
                                              Dramas
                                         Description
0 In a future where the elite inhabit an island ...
1 After a devastating earthquake hits Mexico Cit...
2 When an army recruit is found dead, his fellow...
3 In a postapocalyptic world, rag-doll robots hi...
4 A brilliant group of students become card-coun...
data.shape
(7789, 11)
                                                                # To check
data[data.duplicated()]
row wise and detect the Duplicate rows
     Show Id Category
                                   Title
                                                Director
6300
        s684
                Movie
                                Backfire
                                             Dave Patten
```

```
Movie The Lost Okoroshi Abba T. Makama
6622
       s6621
                                                   Cast
                                                                Country
      Black Deniro, Byron "Squally" Vinson, Dominic ... United States
6622
      Seun Ajayi, Judith Audu, Tope Tedela, Ifu Enna...
                                                                Nigeria
           Release Date Rating Duration
6300
          April 5, 2019 TV-MA
                                 97 min
6622
      September 4, 2020 TV-MA
                                 94 min
                                       Type \
      Dramas, Independent Movies, Thrillers
6300
6622
       Comedies, Dramas, Independent Movies
                                            Description
6300
     When two would-be robbers accidentally kill a ...
6622 A disillusioned security guard transforms into...
data.drop_duplicates(inplace = True)
                                                                     # To
Remove the Duplicate rows permanently
data[data.duplicated()]
Empty DataFrame
Columns: [Show_Id, Category, Title, Director, Cast, Country, Release_Date,
Rating, Duration, Type, Description]
Index: []
data.shape
(7787, 11)
Task.2. Is there any Null Value present in any column? Show with Heat-map.
isnull()
data.head()
  Show Id Category
                    Title
                                    Director
0
       s1 TV Show
                       3%
                                         NaN
1
       s2
             Movie 07:19
                           Jorge Michel Grau
2
       s3
             Movie 23:59
                                Gilbert Chan
3
       s4
                       9
                                 Shane Acker
             Movie
       s5
                              Robert Luketic
             Movie
                       21
                                                Cast
                                                             Country \
0 João Miguel, Bianca Comparato, Michel Gomes, R...
                                                              Brazil
1 Demián Bichir, Héctor Bonilla, Oscar Serrano, ...
                                                             Mexico
2 Tedd Chan, Stella Chung, Henley Hii, Lawrence ...
                                                           Singapore
3 Elijah Wood, John C. Reilly, Jennifer Connelly... United States
```

```
Jim Sturgess, Kevin Spacey, Kate Bosworth, Aar... United States
        Release Date Rating
                               Duration
     August 14, 2020
0
                      TV-MA
                              4 Seasons
  December 23, 2016
                      TV-MA
                                 93 min
  December 20, 2018
                                 78 min
                           R
  November 16, 2017
                      PG-13
                                 80 min
     January 1, 2020
                      PG-13
                                123 min
                                                  Type \
   International TV Shows, TV Dramas, TV Sci-Fi &...
1
                         Dramas, International Movies
2
                 Horror Movies, International Movies
3
  Action & Adventure, Independent Movies, Sci-Fi...
                                          Description
  In a future where the elite inhabit an island ...
  After a devastating earthquake hits Mexico Cit...
2 When an army recruit is found dead, his fellow...
  In a postapocalyptic world, rag-doll robots hi...
4 A brilliant group of students become card-coun...
                                                              # To show where
data.isnull()
Null value is present
      Show Id Category Title Director
                                            Cast
                                                   Country
                                                            Release_Date
        False
                  False False
                                                                   False
0
                                     True
                                           False
                                                     False
                  False False
1
        False
                                    False
                                           False
                                                     False
                                                                    False
2
        False
                  False False
                                    False False
                                                     False
                                                                   False
3
        False
                  False False
                                    False False
                                                     False
                                                                   False
4
        False
                  False False
                                    False False
                                                     False
                                                                    False
                     . . .
                                      . . .
          . . .
                            . . .
                                              . . .
                                                       . . .
                                                                      . . .
7784
        False
                  False False
                                    False
                                           False
                                                     False
                                                                    False
                  False False
                                                     False
7785
        False
                                    False
                                          False
                                                                    False
                  False False
                                                     True
7786
        False
                                     True False
                                                                    False
7787
        False
                  False False
                                           False
                                                     False
                                                                    False
                                     True
7788
        False
                  False False
                                    False
                                            True
                                                     False
                                                                   False
                         Type Description
      Rating Duration
0
       False
                 False
                        False
                                      False
1
       False
                 False
                        False
                                      False
2
       False
                 False
                        False
                                      False
3
       False
                 False False
                                      False
4
       False
                 False False
                                      False
         . . .
                    . . .
                           . . .
                                         . . .
7784
       False
                 False
                        False
                                      False
       False
                 False False
                                      False
7785
                 False
                        False
                                      False
7786
       False
7787
       False
                 False False
                                      False
```

```
7788 False False False
                                   False
[7787 rows x 11 columns]
data.isnull().sum()
                                                                # To show
the count of Null values in each column
Show_Id
                  0
Category
                  0
Title
                  0
Director
               2388
Cast
               718
Country
               507
Release_Date
                10
                  7
Rating
Duration
                  0
                  0
Type
Description
                  0
dtype: int64
seaborn library (heat-map)
import seaborn as sns
                                                                  # To
import Seaborn Library
sns.heatmap(data.isnull())
                                                                       #
Using heat-map to show null values count
```

<matplotlib.axes._subplots.AxesSubplot at 0x2d34665f550>



Q.1. For 'House of Cards', what is the Show Id and Who is the Director of this show?

isin()

data.head()

```
Show Id Category
                    Title
                                    Director
0
       s1
          TV Show
                       3%
1
       s2
             Movie 07:19
                           Jorge Michel Grau
2
       s3
             Movie 23:59
                                Gilbert Chan
3
                                 Shane Acker
       s4
             Movie
                        9
4
       s5
             Movie
                       21
                              Robert Luketic
                                                 Cast
                                                             Country \
   João Miguel, Bianca Comparato, Michel Gomes, R...
                                                              Brazil
  Demián Bichir, Héctor Bonilla, Oscar Serrano, ...
1
                                                              Mexico
  Tedd Chan, Stella Chung, Henley Hii, Lawrence ...
                                                           Singapore
  Elijah Wood, John C. Reilly, Jennifer Connelly... United States
   Jim Sturgess, Kevin Spacey, Kate Bosworth, Aar... United States
        Release_Date Rating
                              Duration
0
     August 14, 2020 TV-MA 4 Seasons
```

```
1 December 23, 2016 TV-MA
                               93 min
2 December 20, 2018
                               78 min
                         R
3 November 16, 2017 PG-13
                               80 min
    January 1, 2020 PG-13
                              123 min
                                               Type \
0 International TV Shows, TV Dramas, TV Sci-Fi &...
1
                       Dramas, International Movies
                Horror Movies, International Movies
3 Action & Adventure, Independent Movies, Sci-Fi...
                                             Dramas
                                        Description
0 In a future where the elite inhabit an island ...
1 After a devastating earthquake hits Mexico Cit...
2 When an army recruit is found dead, his fellow...
3 In a postapocalyptic world, rag-doll robots hi...
4 A brilliant group of students become card-coun...
data[data['Title'].isin(['House of Cards'])]  # To show all records of
a particular item in any column
    Show Id Category
                               Title \
     s2833 TV Show House of Cards
2832
2832 Robin Wright, David Fincher, Gerald McRaney, J...
                                                  Cast
                                                             Country \
2832 Kevin Spacey, Robin Wright, Kate Mara, Corey S... United States
         Release_Date Rating
                              Duration
                                                           Type \
2832 November 2, 2018 TV-MA 6 Seasons TV Dramas, TV Thrillers
                                           Description
2832 A ruthless politician will stop at nothing to ...
str.contains()
data[data['Title'].str.contains('House of Cards')]
                                                         # To show all
records of a particular string in any column
    Show Id Category
                               Title \
2832 s2833 TV Show House of Cards
                                              Director \
2832 Robin Wright, David Fincher, Gerald McRaney, J...
                                                  Cast
                                                             Country \
2832 Kevin Spacey, Robin Wright, Kate Mara, Corey S... United States
```

```
Release Date Rating
                               Duration
                                                             Type \
2832 November 2, 2018 TV-MA 6 Seasons TV Dramas, TV Thrillers
                                            Description
2832 A ruthless politician will stop at nothing to ...
Q.2. In which year highest number of the TV Shows & Movies were released? Show with Bar
Graph.
dtypes
data.dtypes
Show Id
                object
                object
Category
Title
                object
Director
                object
Cast
                object
Country
                object
                object
Release Date
Rating
                object
Duration
                object
Type
                object
Description
                object
dtype: object
to datetime
data['Date_N'] = pd.to_datetime(data['Release_Date'])
data.head()
 Show Id Category Title
                                    Director \
      s1 TV Show
                       3%
0
                                         NaN
            Movie 07:19 Jorge Michel Grau
1
      s2
2
      s3
            Movie 23:59
                               Gilbert Chan
3
      s4
            Movie
                       9
                                 Shane Acker
4
      s5
            Movie
                       21
                              Robert Luketic
                                                Cast
                                                            Country \
0 João Miguel, Bianca Comparato, Michel Gomes, R...
                                                             Brazil
1 Demián Bichir, Héctor Bonilla, Oscar Serrano, ...
                                                             Mexico
2 Tedd Chan, Stella Chung, Henley Hii, Lawrence ...
                                                          Singapore
3 Elijah Wood, John C. Reilly, Jennifer Connelly... United States
4 Jim Sturgess, Kevin Spacey, Kate Bosworth, Aar... United States
        Release Date Rating
                            Duration \
0
    August 14, 2020 TV-MA 4 Seasons
1 December 23, 2016 TV-MA
                                93 min
2 December 20, 2018
                                78 min
                          R
```

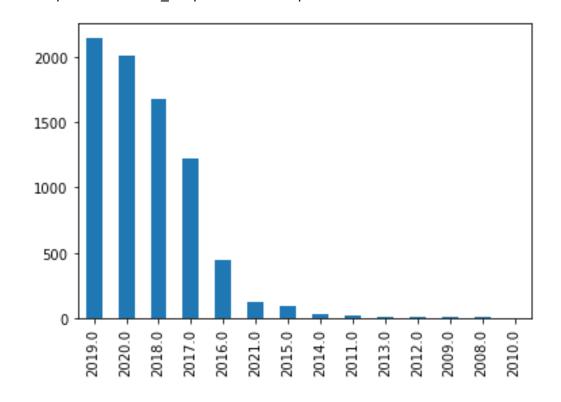
```
November 16, 2017 PG-13
                                80 min
4
     January 1, 2020 PG-13
                               123 min
                                                 Type \
  International TV Shows, TV Dramas, TV Sci-Fi &...
1
                        Dramas, International Movies
2
                 Horror Movies, International Movies
3
  Action & Adventure, Independent Movies, Sci-Fi...
                                               Dramas
                                         Description
                                                          Date N
0 In a future where the elite inhabit an island ... 2020-08-14
1 After a devastating earthquake hits Mexico Cit... 2016-12-23
2 When an army recruit is found dead, his fellow... 2018-12-20
3 In a postapocalyptic world, rag-doll robots hi... 2017-11-16
4 A brilliant group of students become card-coun... 2020-01-01
data.dtypes
Show Id
                        object
Category
                        object
Title
                        object
Director
                        object
Cast
                        object
Country
                        object
Release Date
                        object
Rating
                        object
Duration
                        object
Type
                        object
Description
                        object
Date N
                datetime64[ns]
dtype: object
dt.year.value_counts()
data['Date_N'].dt.year.value_counts()
                                                     # It counts the
occurrence of all individual Years in Date column.
2019.0
          2153
2020.0
          2009
2018.0
          1685
2017.0
          1225
2016.0
           443
2021.0
           117
2015.0
            88
            25
2014.0
2011.0
            13
            11
2013.0
2012.0
             3
2009.0
             2
```

```
2008.0 2
2010.0 1
```

Name: Date_N, dtype: int64

Bar Graph

```
data['Date_N'].dt.year.value_counts().plot(kind='bar')
<matplotlib.axes._subplots.AxesSubplot at 0x2d347300190>
```



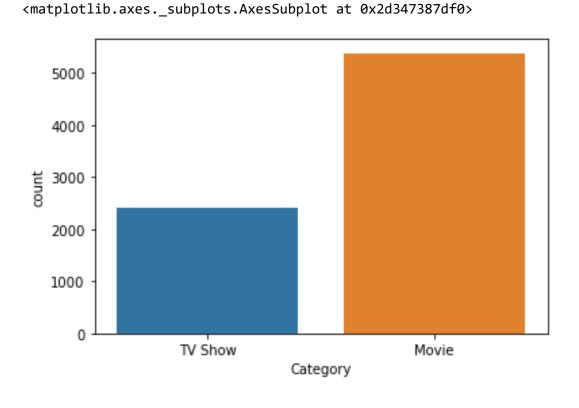
Q.3. How many Movies & TV Shows are in the dataset? Show with Bar Graph.

groupby()

data.head(2)

```
Show_Id Category Title
                                    Director
0
          TV Show
                       3%
                                         NaN
1
       s2
            Movie 07:19 Jorge Michel Grau
                                                Cast Country
  João Miguel, Bianca Comparato, Michel Gomes, R...
                                                      Brazil
  Demián Bichir, Héctor Bonilla, Oscar Serrano, ...
        Release_Date Rating
                              Duration
0
     August 14, 2020 TV-MA
                             4 Seasons
 December 23, 2016 TV-MA
                                93 min
```

```
Type \
 International TV Shows, TV Dramas, TV Sci-Fi &...
1
                       Dramas, International Movies
                                        Description
                                                        Date N
0 In a future where the elite inhabit an island ... 2020-08-14
1 After a devastating earthquake hits Mexico Cit... 2016-12-23
data.groupby('Category').Category.count()
                                                        # To group all
unique items of a column and show their count
Category
Movie
          5377
TV Show
          2410
Name: Category, dtype: int64
countplot()
sns.countplot(data['Category']) # To show the count of all unique
values of any column in the form of bar graph
```



Q.4. Show all the Movies that were released in year 2000.

Creating new column

data.head(2)

```
Director \
 Show Id Category Title
                      3%
0
       s1 TV Show
                                        NaN
1
      s2
            Movie 07:19 Jorge Michel Grau
                                               Cast Country \
0 João Miguel, Bianca Comparato, Michel Gomes, R...
                                                     Brazil
1 Demián Bichir, Héctor Bonilla, Oscar Serrano, ...
        Release Date Rating
                             Duration
    August 14, 2020 TV-MA
                            4 Seasons
0
1 December 23, 2016 TV-MA
                               93 min
                                                Type \
  International TV Shows, TV Dramas, TV Sci-Fi &...
1
                       Dramas, International Movies
                                         Description
                                                        Date N
0 In a future where the elite inhabit an island ... 2020-08-14
1 After a devastating earthquake hits Mexico Cit... 2016-12-23
# to create new Year column ; it will consider only year
data['Year'] = data['Date N'].dt.year
data.head(2)
 Show_Id Category
                   Title
                                   Director \
      s1 TV Show
                       3%
1
      s2
            Movie 07:19 Jorge Michel Grau
                                               Cast Country \
0 João Miguel, Bianca Comparato, Michel Gomes, R...
1 Demián Bichir, Héctor Bonilla, Oscar Serrano, ...
        Release Date Rating
                             Duration \
     August 14, 2020 TV-MA
                            4 Seasons
1 December 23, 2016 TV-MA
                               93 min
                                                Type \
  International TV Shows, TV Dramas, TV Sci-Fi &...
1
                       Dramas, International Movies
                                         Description
                                                        Date N
                                                                  Year
0 In a future where the elite inhabit an island ... 2020-08-14
                                                                2020.0
1 After a devastating earthquake hits Mexico Cit... 2016-12-23
Filtering
data[ (data['Category'] == 'Movie') & (data['Year']==2000) ]
```

```
Empty DataFrame
Columns: [Show_Id, Category, Title, Director, Cast, Country, Release_Date,
Rating, Duration, Type, Description, Date_N, Year]
Index: []
data[ (data['Category'] == 'Movie') & (data['Year']==2020) ]
     Show_Id Category
                                                           Title
4
                Movie
          s5
                                                              21
6
          s7
                Movie
                                                             122
14
         s15
                Movie
                                                            3022
27
                Movie
         s28
                                                          #Alive
28
         s29
                Movie
                                  #AnneFrank - Parallel Stories
                  . . .
7762
                                                       Zaki Chan
       s7761
                Movie
7783
       s7782
                Movie
                                                            Zoom
       s7783
7784
                Movie
                                                            Zozo
7786
       s7785
                Movie
                                               Zulu Man in Japan
                       ZZ TOP: THAT LITTLE OL' BAND FROM TEXAS
7788
       s7787
                Movie
                          Director \
4
                   Robert Luketic
6
                  Yasir Al Yasiri
                        John Suits
14
27
                            Cho Il
28
      Sabina Fedeli, Anna Migotto
7762
                        Wael Ihsan
7783
                      Peter Hewitt
                       Josef Fares
7784
7786
                               NaN
7788
                          Sam Dunn
                                                     Cast \
      Jim Sturgess, Kevin Spacey, Kate Bosworth, Aar...
4
6
      Amina Khalil, Ahmed Dawood, Tarek Lotfy, Ahmed...
14
      Omar Epps, Kate Walsh, Miranda Cosgrove, Angus...
27
                                Yoo Ah-in, Park Shin-hye
                             Helen Mirren, Gengher Gatti
28
     Ahmed Helmy, Yasmin Abdulaziz, Hassan Hosny, H...
7762
7783
      Tim Allen, Courteney Cox, Chevy Chase, Kate Ma...
      Imad Creidi, Antoinette Turk, Elias Gergi, Car...
7784
7786
                                                  Nasty C
7788
                                                      NaN
                                                  Country
                                                                  Release_Date
/
4
                                           United States
                                                              January 1, 2020
6
                                                                  June 1, 2020
                                                    Egypt
```

```
14
                                           United States
                                                               March 19, 2020
27
                                             South Korea
                                                            September 8, 2020
                                                                 July 1, 2020
28
                                                    Italy
                                                      . . .
                                                                 May 19, 2020
7762
                                                    Egypt
                                           United States
                                                             January 11, 2020
7783
7784
      Sweden, Czech Republic, United Kingdom, Denmar...
                                                             October 19, 2020
                                                           September 25, 2020
7786
                                                      NaN
7788
                  United Kingdom, Canada, United States
                                                                March 1, 2020
     Rating Duration
                                                                     Type
                                                                           \
      PG-13
             123 min
4
                                                                   Dramas
              95 min
6
      TV-MA
                                     Horror Movies, International Movies
                        Independent Movies, Sci-Fi & Fantasy, Thrillers
14
              91 min
27
                          Horror Movies, International Movies, Thrillers
      TV-MA
              99 min
                                     Documentaries, International Movies
28
      TV-14
              95 min
                  . . .
7762
      TV-PG
             109 min
                        Comedies, International Movies, Romantic Movies
7783
         PG
              88 min
                                      Children & Family Movies, Comedies
              99 min
                                            Dramas, International Movies
7784
      TV-MA
7786
      TV-MA
              44 min
                      Documentaries, International Movies, Music & M...
                                         Documentaries, Music & Musicals
7788
     TV-MA
              90 min
                                             Description
                                                              Date N
                                                                        Year
4
      A brilliant group of students become card-coun... 2020-01-01
                                                                       2020.0
      After an awful accident, a couple admitted to ... 2020-06-01
6
                                                                       2020.0
      Stranded when the Earth is suddenly destroyed ... 2020-03-19
14
                                                                       2020.0
27
      As a grisly virus rampages a city, a lone man ... 2020-09-08
                                                                       2020.0
28
      Through her diary, Anne Frank's story is retol... 2020-07-01
                                                                       2020.0
                                                                         . . .
     An unqualified young man has his work cut out ... 2020-05-19
7762
                                                                       2020.0
7783
      Dragged from civilian life, a former superhero... 2020-01-11
                                                                       2020.0
      When Lebanon's Civil War deprives Zozo of his ... 2020-10-19
7784
                                                                       2020.0
      In this documentary, South African rapper Nast... 2020-09-25
7786
                                                                       2020.0
      This documentary delves into the mystique behi... 2020-03-01
7788
                                                                       2020.0
[1312 rows x 13 columns]
```

Q.5. Show only the Titles of all TV Shows that were released in India only.

Filtering

```
data.head(2)
```

```
Cast Country \
0 João Miguel, Bianca Comparato, Michel Gomes, R...
1 Demián Bichir, Héctor Bonilla, Oscar Serrano, ...
        Release Date Rating
                              Duration \
0
     August 14, 2020 TV-MA
                             4 Seasons
1 December 23, 2016
                      TV-MA
                                93 min
                                                 Type \
  International TV Shows, TV Dramas, TV Sci-Fi &...
1
                        Dramas, International Movies
                                         Description
                                                                    Year
                                                         Date N
0 In a future where the elite inhabit an island ... 2020-08-14
                                                                  2020.0
1 After a devastating earthquake hits Mexico Cit... 2016-12-23
                                                                 2016.0
data[ (data['Category']=='TV Show') & (data['Country']=='India') ] ['Title']
86
              21 Sarfarosh: Saragarhi 1897
132
                                 7 (Seven)
340
                              Agent Raghav
                              Akbar Birbal
364
533
                       Anjaan: Rural Myths
6249
                      The Creative Indians
        The Golden Years with Javed Akhtar
6400
6469
                    The House That Made Me
7294
                                Typewriter
                           Yeh Meri Family
7705
Name: Title, Length: 71, dtype: object
Q.6. Show Top 10 Directors, who gave the highest number of TV Shows & Movies to Netflix?
value counts()
data.head(2)
  Show_Id Category
                                    Director \
                    Title
       s1 TV Show
                       3%
                                         NaN
             Movie 07:19 Jorge Michel Grau
       52
                                                Cast Country \
O João Miguel, Bianca Comparato, Michel Gomes, R...
                                                      Brazil
1 Demián Bichir, Héctor Bonilla, Oscar Serrano, ...
        Release_Date Rating
                              Duration
0
     August 14, 2020 TV-MA 4 Seasons
```

```
1 December 23, 2016 TV-MA
                                 93 min
                                                  Type \
  International TV Shows, TV Dramas, TV Sci-Fi &...
1
                         Dramas, International Movies
                                           Description
                                                           Date N
                                                                      Year
  In a future where the elite inhabit an island ... 2020-08-14 2020.0
1 After a devastating earthquake hits Mexico Cit... 2016-12-23 2016.0
data['Director'].value_counts().head(10)
Raúl Campos, Jan Suter
                           18
Marcus Raboy
                           16
Jay Karas
                           14
Cathy Garcia-Molina
                           13
Youssef Chahine
                           12
Martin Scorsese
                           12
Jay Chapman
                           12
Steven Spielberg
                           10
David Dhawan
                            9
Hakan Algül
Name: Director, dtype: int64
Q.7. Show all the Records, where "Category is Movie and Type is Comedies" or "Country is
United Kingdom".
Filtering (And, Or Operators)
data.head(2)
  Show Id Category Title
                                     Director \
0
       s1 TV Show
                        3%
1
       s2
             Movie 07:19 Jorge Michel Grau
                                                  Cast Country \
  João Miguel, Bianca Comparato, Michel Gomes, R...
  Demián Bichir, Héctor Bonilla, Oscar Serrano, ... Mexico
        Release_Date Rating
                               Duration
     August 14, 2020 TV-MA
                              4 Seasons
  December 23, 2016 TV-MA
                                 93 min
                                                  Type
  International TV Shows, TV Dramas, TV Sci-Fi &...
                         Dramas, International Movies
1
                                           Description
                                                           \mathsf{Date}_{\mathsf{N}}
                                                                      Year
```

```
0 In a future where the elite inhabit an island ... 2020-08-14
1 After a devastating earthquake hits Mexico Cit... 2016-12-23
                                                                    2016.0
data[ (data['Category']=='Movie') & (data['Type']=='Comedies') ]
     Show Id Category
                                               Title
                                                                     Director
33
                                       #realityhigh
         s34
                Movie
                                                             Fernando Lebrija
         s73
72
                Movie
                                            17 Again
                                                                  Burr Steers
84
         s85
                Movie
                                           21 & Over
                                                      Jon Lucas, Scott Moore
148
                                                      Jon Lucas, Scott Moore
        s149
                               A Bad Moms Christmas
                Movie
174
        s175
                Movie
                        A Futile and Stupid Gesture
                                                                   David Wain
. . .
         . . .
                               Undercover Brother 2
                                                                 Leslie Small
7341
       s7340
                Movie
7590
       s7589
                Movie
                                  Where's the Money
                                                             Scott Zabielski
7623
       s7622
                Movie
                                           Wild Oats
                                                                 Andy Tennant
7634
                Movie
                                       Wine Country
                                                                  Amy Poehler
       s7633
       s7663
7664
                Movie
                                             Work It
                                                                Laura Terruso
                                                     Cast \
33
      Nesta Cooper, Kate Walsh, John Michael Higgins...
72
      Zac Efron, Leslie Mann, Matthew Perry, Thomas ...
84
      Miles Teller, Skylar Astin, Justin Chon, Sarah...
      Mila Kunis, Kristen Bell, Kathryn Hahn, Susan ...
148
      Will Forte, Domhnall Gleeson, Martin Mull, Joe...
174
. . .
      Michael Jai White, Vince Swann, Barry Bostwick...
7341
      Andrew Bachelor, Kat Graham, Mike Epps, Terry ...
7590
      Shirley MacLaine, Jessica Lange, Billy Connoll...
7623
7634
      Amy Poehler, Maya Rudolph, Ana Gasteyer, Rache...
      Sabrina Carpenter, Jordan Fisher, Liza Koshy, ...
7664
                                     Release Date Rating Duration
                                                                        Type
                      Country
33
               United States
                               September 8, 2017
                                                   TV-14
                                                                    Comedies
                                                            99 min
72
               United States
                                 January 1, 2021
                                                   PG-13
                                                           102 min
                                                                    Comedies
84
               United States
                                  April 16, 2019
                                                       R
                                                           93 min
                                                                    Comedies
148
        United States, China
                               February 14, 2020
                                                       R
                                                          104 min
                                                                    Comedies
               United States
                                January 26, 2018
174
                                                   TV-MA
                                                           102 min
                                                                    Comedies
                                                               . . .
. . .
                                                     . . .
               United States
                                November 5, 2019
7341
                                                       R
                                                            85 min
                                                                    Comedies
               United States
                                January 22, 2018
                                                            86 min
                                                                    Comedies
7590
                                                       R
7623
      Germany, United States
                                    May 13, 2017
                                                            86 min
                                                   PG-13
                                                                    Comedies
7634
               United States
                                    May 10, 2019
                                                       R
                                                          104 min
                                                                    Comedies
7664
               United States
                                  August 7, 2020
                                                            94 min
                                                                    Comedies
                                                   TV-14
                                              Description
                                                               Date N
                                                                         Year
33
      When nerdy high schooler Dani finally attracts... 2017-09-08
                                                                       2017.0
      Nearing a midlife crisis, thirty-something Mik... 2021-01-01
72
                                                                       2021.0
84
      Jeff's straight-and-narrow life changes abrupt... 2019-04-16
                                                                       2019.0
148
      Stressed-out moms Amy, Carla and Kiki are back... 2020-02-14
                                                                       2020.0
      In a brief life full of triumph and failure, "... 2018-01-26
174
                                                                       2018.0
```

```
When a beloved secret agent falls deep into a ... 2019-11-05
7341
                                                                       2019.0
     Hunting for a stash of stolen money, a sharp-w... 2018-01-22
7590
                                                                       2018.0
     When insurance accidentally pays her millions,... 2017-05-13
7623
                                                                       2017.0
     When longtime friends meet up for a wine-soake... 2019-05-10
7634
                                                                       2019.0
7664 A brilliant but clumsy high school senior vows... 2020-08-07
                                                                       2020.0
[97 rows x 13 columns]
data[ (data['Category']=='Movie') & (data['Type']=='Comedies') |
(data['Country'] == 'United Kingdom')]
     Show_Id Category
                                         Title
                                                         Director
19
                Movie
                                            '89
         s20
                                                               NaN
33
         s34
                Movie
                                  #realityhigh
                                                 Fernando Lebrija
58
         s59
              TV Show
                                   100% Hotter
                                                               NaN
72
         s73
                                      17 Again
                                                      Burr Steers
                Movie
82
         s83
                Movie
                           2036 Origin Unknown
                                                    Hasraf Dulull
         . . .
                       World War II in Colour
7670
       s7669
              TV Show
                                                               NaN
              TV Show
                       World's Busiest Cities
7671
       s7670
                                                              NaN
7688
                       XV: Beyond the Tryline
       s7687
                Movie
                                                Pierre Deschamps
                                  You Can Tutu
7725
       s7724
                Movie
                                                      James Brown
       s7739
7740
              TV Show
                               Young Wallander
                                                              NaN
                                                                   Country
                                                     Cast
19
                      Lee Dixon, Ian Wright, Paul Merson
                                                           United Kingdom
33
      Nesta Cooper, Kate Walsh, John Michael Higgins...
                                                            United States
58
      Daniel Palmer, Melissa Sophia, Karen Williams,...
                                                           United Kingdom
      Zac Efron, Leslie Mann, Matthew Perry, Thomas ...
72
                                                            United States
82
      Katee Sackhoff, Ray Fearon, Julie Cox, Steven ...
                                                           United Kingdom
7670
                                            Robert Powell
                                                           United Kingdom
                      Anita Rani, Ade Adepitan, Dan Snow
                                                           United Kingdom
7671
7688
                                                           United Kingdom
                                                      NaN
7725
      Lily O'Regan, Jeannettsy Enriquez Borges, Joel...
                                                           United Kingdom
7740
     Adam Pålsson, Richard Dillane, Leanne Best, El...
                                                           United Kingdom
           Release Date Rating
                                 Duration
19
           May 16, 2018
                          TV-PG
                                   87 min
33
      September 8, 2017
                                   99 min
                          TV-14
58
       November 1, 2019
                          TV-14
                                 1 Season
72
        January 1, 2021
                          PG-13
                                  102 min
82
      December 20, 2018
                          TV-14
                                   95 min
                            . . .
                                       . . .
7670
         August 1, 2017
                          TV-MA
                                 1 Season
       February 1, 2019
                          TV-PG
                                 1 Season
7671
         March 18, 2020
                          TV-14
                                   91 min
7688
7725
      December 31, 2017
                           TV-G
                                   87 min
```

```
7740 September 3, 2020 TV-MA 1 Season
                                                    Type \
19
                                          Sports Movies
33
                                               Comedies
58
      British TV Shows, International TV Shows, Real...
72
                                               Comedies
82
                                       Sci-Fi & Fantasy
     British TV Shows, Docuseries, International TV...
7670
                           British TV Shows, Docuseries
7671
7688
                           Documentaries, Sports Movies
                               Children & Family Movies
7725
7740 Crime TV Shows, International TV Shows, TV Dramas
                                            Description
                                                             Date N
                                                                       Year
19
      Mixing old footage with interviews, this is th... 2018-05-16
                                                                     2018.0
33
      When nerdy high schooler Dani finally attracts... 2017-09-08
                                                                     2017.0
58
      A stylist, a hair designer and a makeup artist... 2019-11-01
                                                                     2019.0
      Nearing a midlife crisis, thirty-something Mik... 2021-01-01
72
                                                                     2021.0
82
      Working with an artificial intelligence to inv... 2018-12-20
                                                                     2018.0
     Footage of the most dramatic moments from Worl... 2017-08-01
7670
                                                                     2017.0
      From Moscow to Mexico City, three BBC journali... 2019-02-01
7671
                                                                     2019.0
7688
      Set against the 2015 Rugby World Cup, this doc... 2020-03-18
                                                                     2020.0
      A gifted young ballet dancer struggles to find... 2017-12-31
7725
                                                                     2017.0
7740
     An incendiary hate crime stirs civil unrest, f... 2020-09-03
                                                                     2020.0
[485 rows x 13 columns]
Q.8. In how many movies/shows, Tom Cruise was cast?
data.head(2)
  Show Id Category
                    Title
                                    Director
       s1
          TV Show
                       3%
                                         NaN
1
       s2
             Movie 07:19
                          Jorge Michel Grau
                                                Cast Country \
  João Miguel, Bianca Comparato, Michel Gomes, R...
                                                       Brazil
1 Demián Bichir, Héctor Bonilla, Oscar Serrano, ...
        Release_Date Rating
                              Duration
     August 14, 2020
                     TV-MA
                             4 Seasons
  December 23, 2016
                      TV-MA
                                93 min
                                                 Type \
```

0 International TV Shows, TV Dramas, TV Sci-Fi &...

```
Description
                                                         Date N
                                                                    Year
0 In a future where the elite inhabit an island ... 2020-08-14 2020.0
1 After a devastating earthquake hits Mexico Cit... 2016-12-23 2016.0
filtering
data[data['Cast'] == 'Tom Cruise']
Empty DataFrame
Columns: [Show_Id, Category, Title, Director, Cast, Country, Release_Date,
Rating, Duration, Type, Description, Date_N, Year]
Index: []
str.contains()
data[data['Cast'].str.contains('Tom Cruise')]
ValueError
                                          Traceback (most recent call last)
<ipython-input-47-dd5e43449832> in <module>
      1 # data[data['Cast'].str.contains('Tom Cruise')]
----> 3 data[data['Cast'].str.contains('Tom Cruise')]
~\anaconda3\lib\site-packages\pandas\core\frame.py in __getitem_(self, key)
   3012
   3013
                # Do we have a (boolean) 1d indexer?
                if com.is_bool_indexer(key):
-> 3014
                    return self._getitem_bool_array(key)
   3015
   3016
~\anaconda3\lib\site-packages\pandas\core\common.py in is_bool_indexer(key)
                            # Don't raise on e.g. ["A", "B", np.nan], see
    112
    113
test loc getitem list of labels categoricalindex with na
--> 114
                            raise ValueError(na msg)
    115
                        return False
    116
                    return True
ValueError: Cannot mask with non-boolean array containing NA / NaN values
Creating new data-frame
# It drops the rows that contains all or any missing values.
data_new = data.dropna()
data_new.head(2)
```

```
Show Id Category Title
                                   Director \
1
       s2
            Movie 07:19 Jorge Michel Grau
2
      s3
            Movie 23:59
                               Gilbert Chan
                                               Cast
                                                       Country \
1 Demián Bichir, Héctor Bonilla, Oscar Serrano, ...
                                                        Mexico
2 Tedd Chan, Stella Chung, Henley Hii, Lawrence ... Singapore
        Release Date Rating Duration
                                                                    Type \
1 December 23, 2016 TV-MA
                             93 min
                                            Dramas, International Movies
2 December 20, 2018
                             78 min Horror Movies, International Movies
                                        Description
                                                        Date N
                                                                  Year
1 After a devastating earthquake hits Mexico Cit... 2016-12-23
                                                                2016.0
2 When an army recruit is found dead, his fellow... 2018-12-20
data_new[data_new['Cast'].str.contains('Tom Cruise')]
     Show Id Category
                         Title
                                            Director \
3860
      s3861
               Movie Magnolia Paul Thomas Anderson
5071
      s5071
               Movie
                      Rain Man
                                      Barry Levinson
                                                              Country \
3860 Jeremy Blackman, Tom Cruise, Melinda Dillon, A... United States
5071 Dustin Hoffman, Tom Cruise, Valeria Golino, Ge... United States
         Release_Date Rating Duration
                                                            Type \
3860
     January 1, 2020
                          R 189 min Dramas, Independent Movies
5071
         July 1, 2019
                                          Classic Movies, Dramas
                          R 134 min
                                           Description
                                                                     Year
                                                           Date N
3860 Through chance, human action, past history and... 2020-01-01
                                                                   2020.0
5071 A fast-talking yuppie is forced to slow down w... 2019-07-01
Q.9. What are the different Ratings defined by Netflix?
nunique()
data.head(2)
 Show_Id Category Title
                                   Director \
      s1 TV Show
                      3%
                                        NaN
      s2
            Movie 07:19 Jorge Michel Grau
                                               Cast Country \
0 João Miguel, Bianca Comparato, Michel Gomes, R...
1 Demián Bichir, Héctor Bonilla, Oscar Serrano, ...
```

```
Release_Date Rating
                              Duration \
     August 14, 2020 TV-MA
0
                             4 Seasons
  December 23, 2016
                                93 min
                     TV-MA
                                                Type \
  International TV Shows, TV Dramas, TV Sci-Fi &...
1
                        Dramas, International Movies
                                         Description
                                                         Date_N
                                                                   Year
0 In a future where the elite inhabit an island ... 2020-08-14
                                                                 2020.0
1 After a devastating earthquake hits Mexico Cit... 2016-12-23
data['Rating'].nunique()
14
unique()
data['Rating'].unique()
array(['TV-MA', 'R', 'PG-13', 'TV-14', 'TV-PG', 'NR', 'TV-G', 'TV-Y', nan,
       'TV-Y7', 'PG', 'G', 'NC-17', 'TV-Y7-FV', 'UR'], dtype=object)
Q.9.1. How many Movies got the 'TV-14' rating, in Canada?
data.head(2)
  Show_Id Category
                   Title
                                    Director
       s1 TV Show
                       3%
                                         NaN
             Movie 07:19 Jorge Michel Grau
       s2
                                                Cast Country \
O João Miguel, Bianca Comparato, Michel Gomes, R...
1 Demián Bichir, Héctor Bonilla, Oscar Serrano, ...
        Release_Date Rating
                              Duration \
     August 14, 2020 TV-MA
                             4 Seasons
1 December 23, 2016 TV-MA
                                93 min
                                                Type \
  International TV Shows, TV Dramas, TV Sci-Fi &...
1
                        Dramas, International Movies
                                         Description
                                                         Date N
                                                                   Year
0 In a future where the elite inhabit an island ... 2020-08-14
                                                                 2020.0
1 After a devastating earthquake hits Mexico Cit... 2016-12-23
data[(data['Category']=='Movie') & (data['Rating']=='TV-14')].shape
```

```
(1272, 13)
data[(data['Category']=='Movie') & (data['Rating']=='TV-14') &
(data['Country']=='Canada')].shape
(11, 13)
Q.9.2. How many TV Show got the 'R' rating, after year 2018?
data.head(2)
  Show_Id Category Title
                                    Director \
       s1 TV Show
                       3%
                                         NaN
0
1
       s2
            Movie 07:19 Jorge Michel Grau
                                                Cast Country \
O João Miguel, Bianca Comparato, Michel Gomes, R...
                                                      Brazil
1 Demián Bichir, Héctor Bonilla, Oscar Serrano, ... Mexico
        Release Date Rating
                              Duration \
     August 14, 2020 TV-MA
0
                             4 Seasons
1 December 23, 2016 TV-MA
                                93 min
                                                Type \
  International TV Shows, TV Dramas, TV Sci-Fi &...
0
1
                        Dramas, International Movies
                                                                   Year
                                         Description
                                                         Date N
0 In a future where the elite inhabit an island ... 2020-08-14
                                                                 2020.0
  After a devastating earthquake hits Mexico Cit... 2016-12-23
data[(data['Category']=='TV Show') & (data['Rating']=='R')]
     Show_Id Category
                                                     Title
                                                                     Director
4497
       s4498 TV Show
                                                     Nobel
                                                                          NaN
                      The Hateful Eight: Extended Version Quentin Tarantino
6437
       s6436 TV Show
                                                   Cast Country \
4497 Aksel Hennie, Tuva Novotny, Anders Danielsen L...
                                                         Norway
      Samuel L. Jackson, Kurt Russell, Jennifer Jaso...
6437
                                                            NaN
           Release_Date Rating Duration \
4497
      December 10, 2016
                             R 1 Season
6437
         April 25, 2019
                             R 1 Season
                                                 Type \
4497
      International TV Shows, TV Dramas, TV Thrillers
6437
                                             TV Shows
```

```
Description
                                                            Date_N
                                                                     Year
4497 A series of incidents in Afghanistan set compl... 2016-12-10 2016.0
6437 Trapped at a stagecoach stop as a storm rages ... 2019-04-25
data[(data['Category']=='TV Show') & (data['Rating']=='R') & (data['Year'] >
2018)]
     Show_Id Category
                                                    Title
                                                                    Director
6437
      s6436 TV Show The Hateful Eight: Extended Version Quentin Tarantino
                                                  Cast Country \
6437 Samuel L. Jackson, Kurt Russell, Jennifer Jaso...
                                                           NaN
        Release_Date Rating Duration
                                          Type \
6437 April 25, 2019
                         R 1 Season TV Shows
                                           Description
                                                            Date N
                                                                     Year
6437 Trapped at a stagecoach stop as a storm rages ... 2019-04-25
                                                                   2019.0
Q.10. What is the maximum duration of a Movie/Show on Netflix?
data.head(2)
 Show Id Category Title
                                   Director \
      s1 TV Show
                      3%
                                        NaN
1
      s2
            Movie 07:19 Jorge Michel Grau
                                               Cast Country \
0 João Miguel, Bianca Comparato, Michel Gomes, R...
                                                     Brazil
1 Demián Bichir, Héctor Bonilla, Oscar Serrano, ... Mexico
        Release Date Rating
                             Duration
     August 14, 2020 TV-MA
0
                            4 Seasons
1 December 23, 2016 TV-MA
                                93 min
                                                Type \
  International TV Shows, TV Dramas, TV Sci-Fi &...
1
                       Dramas, International Movies
                                        Description
                                                        Date N
                                                                  Year
O In a future where the elite inhabit an island ... 2020-08-14
                                                                2020.0
1 After a devastating earthquake hits Mexico Cit... 2016-12-23
data.Duration.unique()
```

```
array(['4 Seasons', '93 min', '78 min', '80 min', '123 min', '1 Season',
                                    ['4 Seasons', '93 min', '78 min', '80 min', '123 min', '1 Season', '95 min', '119 min', '118 min', '143 min', '103 min', '89 min', '91 min', '149 min', '144 min', '124 min', '87 min', '110 min', '128 min', '117 min', '100 min', '2 Seasons', '84 min', '99 min', '90 min', '102 min', '104 min', '105 min', '56 min', '125 min', '81 min', '97 min', '106 min', '107 min', '109 min', '44 min', '75 min', '101 min', '3 Seasons', '37 min', '113 min', '114 min', '130 min', '94 min', '140 min', '135 min', '82 min', '70 min', '121 min', '92 min', '164 min', '53 min', '83 min', '116 min', '86 min', '120 min', '96 min', '126 min', '129 min', '77 min', '137 min', '148 min', '28 min', '122 min', '176 min', '85 min', '22 min', '68 min', '111 min', '29 min', '142 min', '168 min', '21 min', '59 min', '20 min', '98 min', '108 min', '76 min', '26 min', '156 min', '30 min', '57 min', '150 min', '133 min', '115 min', '154 min', '127 min', '146 min', '136 min', '88 min', '185 min', '186 min', '186 min', '188 min', '185 min', '186 min', '186 min', '188 min'
                                     '26 min', '156 min', '30 min', '57 min', '150 min', '133 min', '115 min', '154 min', '127 min', '146 min', '136 min', '88 min', '131 min', '24 min', '112 min', '74 min', '63 min', '38 min', '25 min', '174 min', '60 min', '153 min', '158 min', '151 min', '162 min', '54 min', '51 min', '69 min', '64 min', '147 min', '42 min', '79 min', '5 Seasons', '40 min', '45 min', '172 min', '10 min', '163 min', '9 Seasons', '55 min', '72 min', '61 min', '71 min', '160 min', '171 min', '48 min', '139 min', '157 min', '15 min', '65 min', '134 min', '161 min', '62 min', '8 Seasons', '186 min', '49 min', '73 min', '58 min', '165 min', '166 min', '138 min', '159 min', '141 min', '132 min', '52 min', '67 min',
                                        '138 min', '159 min', '141 min', '132 min', '52 min', '67 min',
                                      '34 min', '66 min', '312 min', '180 min', '47 min', '6 Seasons', '155 min', '14 min', '177 min', '11 min', '9 min', '46 min', '145 min', '11 Seasons', '7 Seasons', '13 Seasons', '8 min', '12 min', '12 Seasons', '10 Seasons', '43 min', '50 min', '23 min',
                                       '185 min', '200 min', '169 min', '27 min', '170 min', '196 min', '33 min', '181 min', '204 min', '32 min', '35 min', '167 min',
                                        '16 Seasons', '179 min', '193 min', '13 min', '214 min', '17 min',
                                      '173 min', '192 min', '209 min', '187 min', '41 min', '182 min', '224 min', '233 min', '189 min', '152 min', '19 min', '15 Seasons', '208 min', '237 min', '31 min', '178 min', '230 min', '194 min', '228 min', '195 min', '3 min', '16 min', '5 min', '18 min', '205 min', '190 min', '36 min', '201 min', '253 min', '203 min',
                                        '191 min'], dtype=object)
data.Duration.dtypes
dtype('0')
str.split()
data.head(2)
           Show Id Category Title
                                                                                                                                                                                                     Director \
                                      s1 TV Show
0
                                                                                                                               3%
                                                                                                                                                                                                                                NaN
                                                                      Movie 07:19 Jorge Michel Grau
1
                                      s2
```

```
Cast Country \
0 João Miguel, Bianca Comparato, Michel Gomes, R...
1 Demián Bichir, Héctor Bonilla, Oscar Serrano, ...
        Release Date Rating
                             Duration \
0
    August 14, 2020 TV-MA
                            4 Seasons
1 December 23, 2016 TV-MA
                               93 min
                                                Type \
0 International TV Shows, TV Dramas, TV Sci-Fi &...
1
                       Dramas, International Movies
                                        Description
                                                        Date N
                                                                  Year
0 In a future where the elite inhabit an island ... 2020-08-14
                                                                2020.0
1 After a devastating earthquake hits Mexico Cit... 2016-12-23
                                                                2016.0
data[['Minutes', 'Unit']] = data['Duration'].str.split(' ', expand = True)
data.head(2)
 Show Id Category Title
                                   Director
      s1 TV Show
                      3%
1
      s2
            Movie 07:19 Jorge Michel Grau
                                               Cast Country \
0 João Miguel, Bianca Comparato, Michel Gomes, R...
1 Demián Bichir, Héctor Bonilla, Oscar Serrano, ...
        Release_Date Rating
                             Duration
    August 14, 2020 TV-MA
                            4 Seasons
1 December 23, 2016 TV-MA
                               93 min
                                               Type \
  International TV Shows, TV Dramas, TV Sci-Fi &...
                       Dramas, International Movies
                                                                  Year \
                                        Description
                                                        Date N
0 In a future where the elite inhabit an island ... 2020-08-14
                                                                2020.0
1 After a devastating earthquake hits Mexico Cit... 2016-12-23
 Minutes
             Unit
          Seasons
1
      93
              min
max()
data['Minutes'].max()
```

```
data['Minutes'].min()
'1'
data['Minutes'].mean()
inf
data.dtypes
Show Id
                        object
Category
                        object
Title
                        object
Director
                        object
Cast
                        object
Country
                        object
Release_Date
                        object
                        object
Rating
Duration
                        object
                        object
Type
Description
                        object
Date_N
                datetime64[ns]
                       float64
Year
Minutes
                        object
Unit
                        object
dtype: object
Q.11. Which individual country has the Highest No. of TV Shows?
data.head(2)
                                    Director \
  Show_Id Category Title
      s1 TV Show
                       3%
       s2
             Movie 07:19 Jorge Michel Grau
                                                Cast Country \
0 João Miguel, Bianca Comparato, Michel Gomes, R...
1 Demián Bichir, Héctor Bonilla, Oscar Serrano, ...
        Release_Date Rating
                              Duration \
     August 14, 2020 TV-MA
                             4 Seasons
1 December 23, 2016 TV-MA
                                93 min
                                                 Type \
  International TV Shows, TV Dramas, TV Sci-Fi &...
                        Dramas, International Movies
```

'99'

```
Description
                                                         Date N
                                                                   Year \
0 In a future where the elite inhabit an island ... 2020-08-14
                                                                 2020.0
1 After a devastating earthquake hits Mexico Cit... 2016-12-23
  Minutes
              Unit
       4
          Seasons
0
1
       93
               min
data tvshow = data[data['Category'] == 'TV Show']
data_tvshow.head(2)
  Show_Id Category Title
                             Director
                                      \
       s1 TV Show
                                  NaN
                      3%
5
       s6 TV Show
                      46 Serdar Akar
                                                Cast Country
                                                                 Release_Date
0 João Miguel, Bianca Comparato, Michel Gomes, R...
                                                      Brazil August 14, 2020
5 Erdal Beşikçioğlu, Yasemin Allen, Melis Birkan... Turkey
                                                                 July 1, 2017
  Rating
          Duration
                                                                  Type \
0 TV-MA 4 Seasons International TV Shows, TV Dramas, TV Sci-Fi &...
                       International TV Shows, TV Dramas, TV Mysteries
5 TV-MA
           1 Season
                                         Description
                                                         Date N
                                                                   Year
                                                                        \
0 In a future where the elite inhabit an island ... 2020-08-14
                                                                 2020.0
5 A genetics professor experiments with a treatm... 2017-07-01
  Minutes
              Unit
        4
         Seasons
5
        1
            Season
data_tvshow.Country.value_counts()
                                            705
United States
United Kingdom
                                            204
Japan
                                            157
South Korea
                                            147
India
                                             71
                                           . . .
Italy, United Kingdom, France
                                              1
Australia, Canada
                                              1
Turkey, Azerbaijan
                                              1
Canada, Germany, South Africa
                                              1
United States, United Kingdom, Australia
                                              1
Name: Country, Length: 183, dtype: int64
```

```
data_tvshow.Country.value_counts().head(1)
United States
                 705
Name: Country, dtype: int64
Q.12. How can we sort the dataset by Year?
data.head(2)
  Show Id Category
                    Title
                                     Director
          TV Show
0
       s1
                       3%
                                          NaN
1
       s2
             Movie
                    07:19 Jorge Michel Grau
                                                 Cast Country \
  João Miguel, Bianca Comparato, Michel Gomes, R...
                                                       Brazil
1 Demián Bichir, Héctor Bonilla, Oscar Serrano, ...
        Release_Date Rating
                              Duration
0
     August 14, 2020 TV-MA
                             4 Seasons
1 December 23, 2016 TV-MA
                                 93 min
                                                 Type \
  International TV Shows, TV Dramas, TV Sci-Fi &...
                        Dramas, International Movies
1
                                          Description
                                                          Date N
                                                                     Year
0 In a future where the elite inhabit an island ... 2020-08-14
                                                                   2020.0
1 After a devastating earthquake hits Mexico Cit... 2016-12-23
  Minutes
              Unit
0
        4
           Seasons
1
       93
               min
data.sort values(by = 'Year')
     Show_Id Category
                                               Title
                                                                   Director
7115
       s7114
                Movie
                                To and From New York Sorin Dan Mihalcescu
                                     Dinner for Five
1765
       s1766
              TV Show
3248
       s3249
                Movie
                            Just Another Love Story
                                                              Ole Bornedal
                                                                 Joe Dante
5766
       s5766
                Movie
                                            Splatter
3840
       s3841
                Movie
                        Mad Ron's Prevues from Hell
                                                                 Jim Monaco
. . .
3374
       s3375
             TV Show
                                            Kikoriki
                                                                        NaN
3492
       s3493
              TV Show
                                La Familia P. Luche
                                                                        NaN
3946
              TV Show
       s3947
                                               Maron
                                                                        NaN
5138
       s5138
              TV Show
                                        Red vs. Blue
                                                                        NaN
```

```
Cast
                                                                  Country
                                                            United States
      Barbara King, Shaana Diya, John Krisiukenas, Y...
7115
1765
                                                      NaN
                                                           United States
3248
      Anders W. Berthelsen, Rebecka Hemse, Nikolaj L...
                                                                  Denmark
5766
      Corey Feldman, Tony Todd, Tara Leigh, Erin Way...
                                                            United States
3840
      Nick Pawlow, Jordu Schell, Jay Kushwara, Micha...
                                                           United States
. . .
3374
                                            Igor Dmitriev
                                                                      NaN
3492
      Eugenio Derbez, Consuelo Duval, Luis Manuel Áv...
                                                           United States
      Marc Maron, Judd Hirsch, Josh Brener, Nora Zeh...
3946
                                                           United States
      Burnie Burns, Jason Saldaña, Gustavo Sorola, G...
5138
                                                           United States
6066
      Luke Jurevicius, Craig Behenna, Charlotte Haml...
                                                                Australia
           Release_Date Rating
                                   Duration
7115
                                     81 min
        January 1, 2008
                          TV-MA
1765
       February 4, 2008
                          TV-MA
                                   1 Season
3248
            May 5, 2009
                          TV-MA
                                    104 min
5766
      November 18, 2009
                          TV-MA
                                     29 min
3840
       November 1, 2010
                             NR
                                     84 min
. . .
3374
                           TV-Y
                                  2 Seasons
                     NaN
3492
                     NaN
                          TV-14
                                  3 Seasons
                          TV-MA
                                  4 Seasons
3946
                     NaN
5138
                             NR
                                 13 Seasons
                     NaN
6066
                     NaN
                          TV-Y7
                                  2 Seasons
                                                     Type
                  Dramas, Independent Movies, Thrillers
7115
1765
                            Stand-Up Comedy & Talk Shows
                            Dramas, International Movies
3248
5766
                                            Horror Movies
                              Cult Movies, Horror Movies
3840
. . .
                                                 Kids' TV
3374
      International TV Shows, Spanish-Language TV Sh...
3492
3946
                                              TV Comedies
5138
      TV Action & Adventure, TV Comedies, TV Sci-Fi ...
6066
                                   Kids' TV, TV Comedies
                                              Description
                                                               Date N
                                                                         Year
      While covering a story in New York City, a Sea... 2008-01-01
7115
                                                                       2008.0
1765
      In each episode, four celebrities join host Jo... 2008-02-04
                                                                       2008.0
      When he causes a car accident that leaves a yo... 2009-05-05
3248
                                                                       2009.0
5766
      After committing suicide, a washed-up rocker r... 2009-11-18
                                                                       2009.0
3840
      This collection cherry-picks trailers, forgott... 2010-11-01
                                                                       2010.0
                                                                  . . .
                                                                          . . .
      A wacky rabbit and his gang of animal pals hav...
3374
                                                                  NaT
                                                                          NaN
```

```
3492 This irreverent sitcom featues Ludovico, Feder...
                                                                 NaT
                                                                         NaN
3946 Marc Maron stars as Marc Maron, who interviews...
                                                                         NaN
                                                                 NaT
5138 This parody of first-person shooter games, mil...
                                                                         NaN
                                                                 NaT
     Imagine your worst fears, then multiply them: ...
6066
                                                                 NaT
                                                                         NaN
     Minutes
                 Unit
7115
          81
                  min
               Season
1765
           1
         104
3248
                  min
5766
          29
                  min
3840
          84
                  min
                  . . .
. . .
         . . .
3374
             Seasons
           2
3492
             Seasons
           4 Seasons
3946
5138
          13 Seasons
6066
           2 Seasons
[7787 rows x 15 columns]
data.sort_values(by = 'Year', ascending = False).head(10)
     Show_Id Category
                                                                     Title
                                                           Sherlock Holmes
5564
       s5564
                Movie
5919
       s5919
                Movie
                                                                 Surf's Up
980
        s981
             TV Show
                                                              Bling Empire
                Movie
                                                          Taare Zameen Par
5955
       s5955
                Movie
366
                                                                 Al acecho
        s367
560
        s561
                Movie
                                                                  Apaharan
                Movie Chris Rock Total Blackout: The Tamborine Exten...
1355
       s1356
5922
       s5922
             TV Show
                                                           Surviving Death
4269
       s4270
                Movie
                                                                       Mud
2799
       s2800
                Movie
                                                                      Hook
                     Director \
5564
                  Guy Ritchie
5919 Ash Brannon, Chris Buck
980
                          NaN
5955
                   Aamir Khan
366
          Francisco D'Eufemia
560
                  Prakash Jha
1355
                   Chris Rock
5922
                          NaN
4269
                 Jeff Nichols
2799
             Steven Spielberg
                                                    Cast \
5564 Robert Downey Jr., Jude Law, Rachel McAdams, M...
      Shia LaBeouf, Jeff Bridges, Zooey Deschanel, J...
```

```
980
                                                      NaN
      Aamir Khan, Darsheel Safary, Tanay Chheda, Tis...
5955
      Rodrigo de la Serna, Belen Blanco, Walter Jako...
366
      Ajay Devgn, Nana Patekar, Bipasha Basu, Ayub K...
560
                                              Chris Rock
1355
5922
      Matthew McConaughey, Reese Witherspoon, Tye Sh...
4269
2799
      Dustin Hoffman, Robin Williams, Julia Roberts,...
                                                  Country
                                                               Release_Date \
      United States, Germany, United Kingdom, Australia
5564
                                                            January 1, 2021
5919
                                           United States
                                                            January 1, 2021
                                                           January 15, 2021
980
                                                      NaN
                                                           January 10, 2021
5955
                                                   India
366
                                                      NaN
                                                           January 12, 2021
560
                                                   India
                                                            January 8, 2021
                                                           January 12, 2021
1355
                                                      NaN
5922
                                           United States
                                                            January 6, 2021
                                                            January 1, 2021
4269
                                           United States
2799
                                           United States
                                                           January 15, 2021
             Duration
     Rating
                                                                      Type
                                             Action & Adventure, Comedies
5564
      PG-13
              128 min
                       Children & Family Movies, Comedies, Sports Movies
               86 min
5919
         PG
980
      TV-MA
             1 Season
                                                                Reality TV
5955
         PG
              162 min
                                             Dramas, International Movies
366
      TV-MA
               81 min
                                          International Movies, Thrillers
560
      TV-14
              161 min
                                             Dramas, International Movies
                                                           Stand-Up Comedy
1355
     TV-MA
               98 min
5922
     TV-MA
             1 Season
                                                   Docuseries, Reality TV
4269
      PG-13
              131 min
                                               Dramas, Independent Movies
2799
         PG
              142 min
                                                 Children & Family Movies
                                             Description
                                                              Date N
                                                                        Year
                                                                               \
      The game is afoot for an eccentric detective w... 2021-01-01
5564
                                                                      2021.0
5919
      This Oscar-nominated animated comedy goes behi... 2021-01-01
                                                                      2021.0
      Follow LA's wildly wealthy Asian and Asian Ame... 2021-01-15
980
                                                                      2021.0
5955
      When daydreamer Ishaan is sent to boarding sch... 2021-01-10
                                                                      2021.0
      Looking for a fresh start, a park ranger gets ... 2021-01-12
366
                                                                      2021.0
      Raised under the condescending eye of his acti... 2021-01-08
560
                                                                      2021.0
      In this extended cut of his 2018 special, Chri... 2021-01-12
1355
                                                                      2021.0
5922
      What happens after we die? This docuseries exp... 2021-01-06
                                                                      2021.0
      Two Mississippi teens meet peculiar drifter Mu... 2021-01-01
4269
                                                                      2021.0
      Peter Pan, now grown up and a workaholic, must... 2021-01-15
                                                                      2021.0
     Minutes
                Unit
5564
         128
                 min
5919
          86
                 min
980
           1
              Season
```

```
366
          81
                 min
560
         161
                 min
1355
          98
                 min
5922
           1 Season
4269
         131
                 min
2799
         142
                 min
Q.13. Find all the instances where:
Category is 'Movie' and Type is 'Dramas'
or
Category is 'TV Show' & Type is 'Kids' TV'
data.head(2)
  Show_Id Category Title
                                     Director \
0
       s1 TV Show
                       3%
                                          NaN
1
       s2
             Movie 07:19 Jorge Michel Grau
                                                 Cast Country \
  João Miguel, Bianca Comparato, Michel Gomes, R...
  Demián Bichir, Héctor Bonilla, Oscar Serrano, ...
        Release_Date Rating
                              Duration \
    August 14, 2020 TV-MA
0
                             4 Seasons
  December 23, 2016 TV-MA
                                 93 min
                                                 Type \
  International TV Shows, TV Dramas, TV Sci-Fi &...
0
1
                        Dramas, International Movies
                                          Description
                                                          Date N
                                                                     Year \
0 In a future where the elite inhabit an island ... 2020-08-14
                                                                  2020.0
1 After a devastating earthquake hits Mexico Cit... 2016-12-23
  Minutes
              Unit
           Seasons
0
        4
1
       93
               min
data [ (data['Category']=='Movie') & (data['Type']=='Dramas') ].head(2)
  Show Id Category Title
                                Director \
4
       s5
             Movie
                          Robert Luketic
                      21
```

5955

7

s8

Movie

187

Kevin Reynolds

162

min

```
Cast
                                                              Country \
4 Jim Sturgess, Kevin Spacey, Kate Bosworth, Aar...
                                                       United States
7 Samuel L. Jackson, John Heard, Kelly Rowan, Cl...
                                                       United States
       Release Date Rating Duration
                                        Type
    January 1, 2020
                     PG-13
                            123 min
4
                                      Dramas
7
   November 1, 2019
                         R
                            119 min
                                      Dramas
                                          Description
                                                          Date N
                                                                     Year
4 A brilliant group of students become card-coun... 2020-01-01
                                                                   2020.0
7 After one of his high school students attacks ... 2019-11-01
                                                                   2019.0
  Minutes Unit
      123
4
           min
7
      119
           min
data [ (data['Category']=='TV Show') & (data['Type']== "Kids' TV") ]
     Show Id Category
                                    Title
                                                      Director
                                                                \
111
        s112
             TV Show
                                  44 Cats
                                                            NaN
                            Abby Hatcher
276
        s277
              TV Show
                                                   Kyran Kelly
434
        s435
              TV Show
                             Alphablocks
                                                           NaN
598
        s599
              TV Show
                       Ask the StoryBots
                                                           NaN
              TV Show
706
        s707
                              Bal Ganesh
                                           Vijay S. Bhanushali
7668
       s7667
              TV Show
                           World of Winx
                                                Iginio Straffi
7717
              TV Show
       s7716
                                     Yoko
                                                            NaN
7719
       s7718
              TV Show
                                      MOY
                                                           NaN
7758
       s7757
              TV Show
                                       Z4
                                                           NaN
7761
       s7760
             TV Show
                                Zak Storm
                                                           NaN
                                                    Cast
      Sarah Natochenny, Suzy Myers, Simona Berman, E...
111
276
      Macy Drouin, Wyatt White, Paul Sun-Hyung Lee, ...
        Teresa Gallagher, David Holt, Lizzie Waterworth
434
598
      Judy Greer, Erin Fitzgerald, Fred Tatasciore, ...
706
                 Meghna Erande Joshi, Parminder Ghumman
     Haven Paschall, Alysha Deslorieux, Jessica Paq...
7668
      Eileen Stevens, Alyson Leigh Rosenfeld, Sarah ...
7717
      Sairaj, Devyani Dagaonkar, Ketan Singh, Mayur ...
7719
      Apollo Costa, Gabriel Santana, Matheus Lustosa...
7758
     Michael Johnston, Jessica Gee-George, Christin...
7761
                                             Country
                                                             Release_Date \
111
                                               Italy
                                                         October 1, 2020
                                                             July 1, 2020
276
                              United States, Canada
                                      United Kingdom
                                                            May 25, 2020
434
598
                                       United States
                                                          August 2, 2019
```

```
706
                                                           March 31, 2020
                                                  NaN
. . .
                                                            June 16, 2017
7668
                                Italy, United States
7717
                                                  NaN
                                                            June 23, 2018
7719
                                                  NaN
                                                             June 7, 2018
7758
                                              Brazil
                                                        February 22, 2019
7761
     United States, France, South Korea, Indonesia
                                                       September 13, 2018
     Rating
              Duration
                             Type \
111
      TV-Y7
             2 Seasons
                        Kids' TV
       TV-Y
                        Kids' TV
276
              1 Season
434
       TV-Y
                        Kids' TV
             5 Seasons
       TV-Y
598
             3 Seasons
                        Kids' TV
706
      TV-Y7
              1 Season
                        Kids' TV
. . .
        . . .
                    . . .
7668
      TV-Y7
             2 Seasons
                        Kids' TV
7717
      TV-Y
              1 Season
                        Kids' TV
7719
     TV-Y7
                        Kids' TV
              1 Season
      TV-PG
7758
             2 Seasons
                        Kids' TV
7761
      TV-Y7
             3 Seasons
                        Kids' TV
                                             Description
                                                              Date N
                                                                         Year
      Paw-esome tales abound when singing furry frie... 2020-10-01
111
                                                                       2020.0
276
      A big-hearted girl helps her Fuzzly friends wh... 2020-07-01
                                                                       2020.0
434
      The letters of the alphabet come to life in Al... 2020-05-25
                                                                       2020.0
598
      Five curious little creatures track down the a... 2019-08-02
                                                                       2019.0
706
      Watch Ganesh destroy demons, disarm invaders a... 2020-03-31
                                                                       2020.0
. . .
      The reality show "WOW!" engages the Winx in th... 2017-06-16
7668
                                                                       2017.0
7717
      Friends Mai, Oto and Vik's games at the park b... 2018-06-23
                                                                       2018.0
      With the mind of a human being, and the body o... 2018-06-07
7719
                                                                       2018.0
7758
      Fading music biz veteran Zé realizes he has ju... 2019-02-22
                                                                       2019.0
     Teen surfer Zak Storm is mysteriously transpor... 2018-09-13
7761
                                                                       2018.0
     Minutes
                 Unit
111
           2
              Seasons
276
           1
               Season
434
           5
              Seasons
           3
598
              Seasons
706
           1
               Season
. . .
         . . .
7668
           2
              Seasons
7717
           1
               Season
7719
           1
               Season
7758
           2
              Seasons
7761
           3
              Seasons
[205 rows x 15 columns]
```

```
data [ (data['Category']=='Movie') & (data['Type']=='Dramas') |
(data['Category']=='TV Show') & (data['Type']== "Kids' TV") ]
     Show Id Category
                                              Title
                                                            Director
4
                                                      Robert Luketic
          s5
                Movie
                                                  21
7
                                                187
                                                      Kevin Reynolds
          s8
                Movie
111
        s112
              TV Show
                                            44 Cats
                                                                  NaN
170
        s171
                Movie
                                       A Family Man
                                                       Mark Williams
232
        s233
                        A Stoning in Fulham County
                                                       Larry Elikann
                Movie
. . .
         . . .
                   . . .
7668
       s7667
              TV Show
                                      World of Winx
                                                      Iginio Straffi
7717
       s7716
              TV Show
                                               Yoko
                                                                  NaN
7719
              TV Show
                                                YOM
       s7718
                                                                 NaN
7758
       s7757
              TV Show
                                                 Z4
                                                                 NaN
7761
       s7760
              TV Show
                                          Zak Storm
                                                                 NaN
                                                      Cast
4
      Jim Sturgess, Kevin Spacey, Kate Bosworth, Aar...
7
      Samuel L. Jackson, John Heard, Kelly Rowan, Cl...
111
      Sarah Natochenny, Suzy Myers, Simona Berman, E...
170
      Gerard Butler, Gretchen Mol, Alison Brie, Will...
      Ken Olin, Jill Eikenberry, Maureen Mueller, Gr...
232
. . .
      Haven Paschall, Alysha Deslorieux, Jessica Pag...
7668
      Eileen Stevens, Alyson Leigh Rosenfeld, Sarah ...
7717
7719
      Sairaj, Devyani Dagaonkar, Ketan Singh, Mayur ...
      Apollo Costa, Gabriel Santana, Matheus Lustosa...
7758
7761
      Michael Johnston, Jessica Gee-George, Christin...
                                              Country
                                                              Release Date \
4
                                        United States
                                                           January 1, 2020
7
                                                          November 1, 2019
                                        United States
111
                                                Italy
                                                           October 1, 2020
170
                               Canada, United States
                                                         December 15, 2019
232
                                        United States
                                                           October 1, 2011
. . .
                                                             June 16, 2017
7668
                                 Italy, United States
7717
                                                             June 23, 2018
                                                  NaN
7719
                                                  NaN
                                                              June 7, 2018
7758
                                               Brazil
                                                         February 22, 2019
7761
      United States, France, South Korea, Indonesia
                                                        September 13, 2018
     Rating
              Duration
                             Type \
      PG-13
               123 min
                           Dramas
4
7
               119 min
          R
                           Dramas
111
      TV-Y7
             2 Seasons
                         Kids' TV
170
          R
               110 min
                           Dramas
      TV-14
                 95 min
232
                           Dramas
        . . .
                               . . .
```

```
7668
     TV-Y7
             2 Seasons
                        Kids' TV
7717
      TV-Y
              1 Season
                        Kids' TV
7719
     TV-Y7
                        Kids' TV
              1 Season
7758
     TV-PG
             2 Seasons
                        Kids' TV
7761
     TV-Y7
             3 Seasons Kids' TV
                                             Description
                                                              Date N
                                                                        Year
4
      A brilliant group of students become card-coun... 2020-01-01
                                                                      2020.0
7
      After one of his high school students attacks ... 2019-11-01
                                                                      2019.0
      Paw-esome tales abound when singing furry frie... 2020-10-01
111
                                                                      2020.0
170
      A ruthless corporate headhunter battles his ri... 2019-12-15
                                                                      2019.0
232
      After reckless teens kill an Amish child, a pr... 2011-10-01
                                                                      2011.0
. . .
      The reality show "WOW!" engages the Winx in th... 2017-06-16
7668
                                                                      2017.0
      Friends Mai, Oto and Vik's games at the park b... 2018-06-23
7717
                                                                      2018.0
     With the mind of a human being, and the body o... 2018-06-07
7719
                                                                      2018.0
7758
      Fading music biz veteran Zé realizes he has ju... 2019-02-22
                                                                      2019.0
     Teen surfer Zak Storm is mysteriously transpor... 2018-09-13
                                                                      2018.0
     Minutes
                 Unit
4
                  min
         123
7
         119
                  min
111
           2
              Seasons
170
         110
                  min
232
          95
                  min
         . . .
                   . . .
. . .
7668
           2
              Seasons
               Season
7717
           1
7719
           1
               Season
7758
           2
              Seasons
7761
           3
              Seasons
[322 rows x 15 columns]
```

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