## Netflix Data Analysis using Data Science

## April 15, 2023

```
[1]: import pandas as pd
     import seaborn as sns
     import numpy as np
     import matplotlib.pyplot as plt
[2]: df=pd.read_csv('netflix1.csv')
     df
[2]:
          Show_Id Category
                                                                  Title
                s1
                    TV Show
                                                                     3%
                s2
                                                                  07:19
     1
                      Movie
     2
                s3
                      Movie
                                                                  23:59
     3
                s4
                      Movie
                                                                      9
     4
                s5
                      Movie
                                                                     21
     7784
            s7783
                      Movie
                                                                   Zozo
     7785
            s7784
                      Movie
                                                                 Zubaan
     7786
                      Movie
            s7785
                                                     Zulu Man in Japan
     7787
                    TV Show
                                                 Zumbo's Just Desserts
            s7786
     7788
                             ZZ TOP: THAT LITTLE OL' BAND FROM TEXAS
            s7787
                      Movie
                     Director
                                                                                Cast \
     0
                          {\tt NaN}
                                João Miguel, Bianca Comparato, Michel Gomes, R...
     1
           Jorge Michel Grau
                                Demián Bichir, Héctor Bonilla, Oscar Serrano, ...
     2
                 Gilbert Chan
                                Tedd Chan, Stella Chung, Henley Hii, Lawrence ...
     3
                                Elijah Wood, John C. Reilly, Jennifer Connelly...
                  Shane Acker
     4
                                Jim Sturgess, Kevin Spacey, Kate Bosworth, Aar...
              Robert Luketic
     7784
                  Josef Fares
                                Imad Creidi, Antoinette Turk, Elias Gergi, Car...
                 Mozez Singh
     7785
                                Vicky Kaushal, Sarah-Jane Dias, Raaghav Chanan...
     7786
                          NaN
                                                                             Nasty C
     7787
                          NaN
                                                        Adriano Zumbo, Rachel Khoo
                     Sam Dunn
     7788
                                                                                 NaN
                                                        Country
                                                                        Release_Date
     0
                                                         Brazil
                                                                     August 14, 2020
     1
                                                         Mexico
                                                                   December 23, 2016
     2
                                                      Singapore
                                                                   December 20, 2018
```

```
4
                                                United States
                                                                   January 1, 2020
           Sweden, Czech Republic, United Kingdom, Denmar...
                                                                October 19, 2020
     7784
     7785
                                                                     March 2, 2019
                                                         India
     7786
                                                           NaN
                                                                September 25, 2020
     7787
                                                                  October 31, 2020
                                                     Australia
     7788
                       United Kingdom, Canada, United States
                                                                     March 1, 2020
          Rating
                   Duration
                                                                            Type \
                             International TV Shows, TV Dramas, TV Sci-Fi &...
     0
           TV-MA
                  4 Seasons
     1
           TV-MA
                     93 min
                                                   Dramas, International Movies
     2
               R
                     78 min
                                            Horror Movies, International Movies
     3
           PG-13
                     80 min
                             Action & Adventure, Independent Movies, Sci-Fi...
     4
           PG-13
                    123 min
                                                                          Dramas
     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...
     7787 TV-PG
                   1 Season
                                             International TV Shows, Reality TV
     7788 TV-MA
                     90 min
                                                Documentaries, Music & Musicals
                                                  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...
           In a postapocalyptic world, rag-doll robots hi...
     4
           A brilliant group of students become card-coun...
     7784 When Lebanon's Civil War deprives Zozo of his ...
     7785 A scrappy but poor boy worms his way into a ty...
           In this documentary, South African rapper Nast...
     7787 Dessert wizard Adriano Zumbo looks for the nex...
           This documentary delves into the mystique behi...
     [7789 rows x 11 columns]
[3]: #check no of rows and columns
     df.shape
[3]: (7789, 11)
[4]: #check all columns names
     df.columns
[4]: Index(['Show_Id', 'Category', 'Title', 'Director', 'Cast', 'Country',
            'Release Date', 'Rating', 'Duration', 'Type', 'Description'],
```

United States

November 16, 2017

3

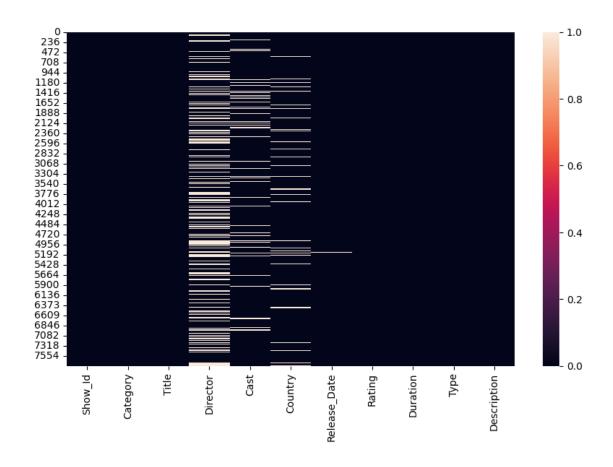
## dtype='object')

[5]: #checking datatype

```
df.info()
    <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
                       7789 non-null
         Category
                                        object
     2
         Title
                       7789 non-null
                                        object
     3
         Director
                       5401 non-null
                                        object
     4
         Cast
                       7071 non-null
                                        object
     5
         Country
                       7282 non-null
                                        object
         Release_Date 7779 non-null
     6
                                        object
     7
         Rating
                       7782 non-null
                                        object
     8
         Duration
                       7789 non-null
                                        object
         Type
                       7789 non-null
                                        object
     10
         Description
                       7789 non-null
                                        object
    dtypes: object(11)
    memory usage: 669.5+ KB
[6]: #check duplicate values
     df[df.duplicated()]
                                        Title
                                                      Director \
[6]:
          Show_Id Category
     6300
             s684
                     Movie
                                     Backfire
                                                   Dave Patten
     6622
                     Movie The Lost Okoroshi Abba T. Makama
            s6621
                                                         Cast
                                                                     Country \
     6300
          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 ...
          A disillusioned security guard transforms into...
```

```
[7]: #drop duplicated vales
      df.drop_duplicates(inplace=True)
 [8]: df[df.duplicated()]
 [8]: Empty DataFrame
      Columns: [Show_Id, Category, Title, Director, Cast, Country, Release_Date,
      Rating, Duration, Type, Description]
      Index: []
 [9]: df.isnull().sum()
 [9]: Show_Id
                         0
     Category
                         0
      Title
                         0
     Director
                      2388
      Cast
                       718
      Country
                       507
     Release_Date
                        10
     Rating
                         7
     Duration
                         0
      Туре
                         0
     Description
                         0
      dtype: int64
[10]: #using heatmap to show null values
      plt.figure(figsize=[10,6])
      sns.heatmap(df.isnull())
```

[10]: <AxesSubplot:>



```
[11]: #show all records of partcular column
      df[df['Title'].isin(['Jalpari: The Desert Mermaid'])]
[11]:
           Show_Id Category
                                                   Title
                                                                   Director \
      3117
             s3118
                     Movie Jalpari: The Desert Mermaid Nila Madhab Panda
                                                         Cast Country Release_Date \
     3117 Lehar Khan, Krishang Trivedi, Parvin Dabas, Su...
                                                              India May 19, 2018
          Rating Duration
                    94 min Dramas, Independent Movies, International Movies
      3117 TV-14
                                                  Description
      3117 When they travel to their father's ancestral v...
[12]: #In which year highest number of TV Shows and Movies were released? Show with
      ⇔bar graph.
      #Formatting release date column
      df['Date'] = pd.to_datetime(df['Release_Date'])
      df.head()
```

```
[12]:
        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
                                       Shane Acker
             s4
                   Movie
                              9
                             21
                                    Robert Luketic
             s5
                   Movie
                                                       Cast
                                                                   Country \
      O 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
      3 November 16, 2017 PG-13
                                      80 min
           January 1, 2020 PG-13
                                     123 min
                                                       Type \
        International TV Shows, TV Dramas, TV Sci-Fi &...
                              Dramas, International Movies
      1
      2
                       Horror Movies, International Movies
      3 Action & Adventure, Independent Movies, Sci-Fi...
                                                     Dramas
                                                Description
      O 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
[13]: #using value counts() function to know which year highest TV Shows and Movies
       ⇔were released.
      df['Date'].dt.year.value_counts()
[13]: 2019.0
                2153
      2020.0
                2009
      2018.0
                1685
      2017.0
                1225
      2016.0
                 443
      2021.0
                 117
      2015.0
                  88
      2014.0
                  25
```

```
      2011.0
      13

      2013.0
      11

      2012.0
      3

      2008.0
      2

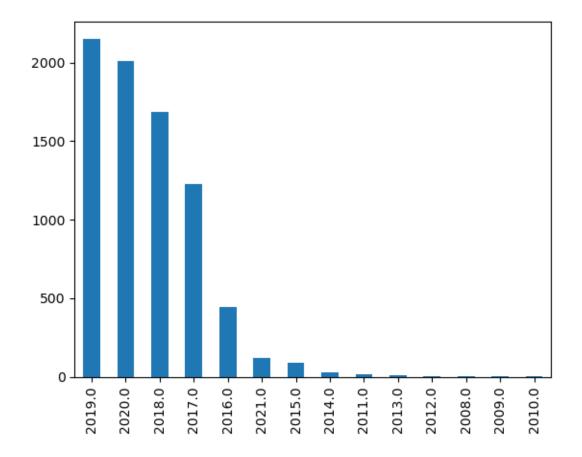
      2009.0
      2

      2010.0
      1
```

Name: Date, dtype: int64

```
[14]: #show with bar graph
df['Date'].dt.year.value_counts().plot(kind='bar')
```

## [14]: <AxesSubplot:>



[15]: #How many movies and shows are in the dataset? Show with the bar graph df['Category'].value\_counts()

[15]: Movie 5377 TV Show 2410

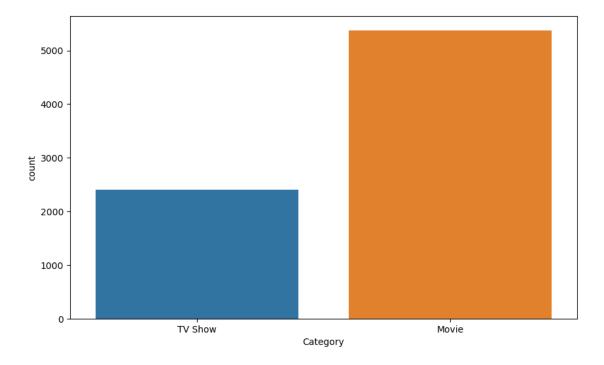
Name: Category, dtype: int64

```
[16]: plt.figure(figsize=[10,6])
sns.countplot(df['Category'])
```

C:\Users\HP\anaconda3\lib\site-packages\seaborn\\_decorators.py:36:
FutureWarning: Pass the following variable as a keyword arg: x. From version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.

warnings.warn(

[16]: <AxesSubplot:xlabel='Category', ylabel='count'>



```
[17]: #Show all the Movies that were released in 2020
df['Year']=df['Date'].dt.year
df.head()
df[(df['Category']=='Movie') & (df['Year']==2020)].head()
```

```
[17]:
         Show_Id Category
                                                      Title \
                     Movie
                                                         21
      4
              s5
      6
              s7
                     Movie
                                                        122
                     Movie
                                                       3022
      14
             s15
             s28
                     Movie
                                                     #Alive
      27
      28
             s29
                     Movie #AnneFrank - Parallel Stories
```

Director \

```
6
                      Yasir Al Yasiri
      14
                            John Suits
      27
                                Cho Il
          Sabina Fedeli, Anna Migotto
      28
                                                        Cast
                                                                     Country \
      4
          Jim Sturgess, Kevin Spacey, Kate Bosworth, Aar... United States
          Amina Khalil, Ahmed Dawood, Tarek Lotfy, Ahmed...
          Omar Epps, Kate Walsh, Miranda Cosgrove, Angus... United States
      27
                                    Yoo Ah-in, Park Shin-hye
                                                                 South Korea
      28
                                 Helen Mirren, Gengher Gatti
                                                                       Italy
               Release_Date Rating Duration \
      4
            January 1, 2020 PG-13
                                     123 min
               June 1, 2020
      6
                             TV-MA
                                      95 min
             March 19, 2020
      14
                                      91 min
      27
          September 8, 2020
                             TV-MA
                                      99 min
               July 1, 2020
      28
                             TV-14
                                      95 min
                                                       Type \
      4
                                                    Dramas
      6
                      Horror Movies, International Movies
          Independent Movies, Sci-Fi & Fantasy, Thrillers
      14
           Horror Movies, International Movies, Thrillers
      27
      28
                      Documentaries, International Movies
                                                 Description
                                                                            Year
                                                                    Date
      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
                                                                        2020.0
      14 Stranded when the Earth is suddenly destroyed ... 2020-03-19
                                                                        2020.0
          As a grisly virus rampages a city, a lone man ... 2020-09-08
                                                                        2020.0
          Through her diary, Anne Frank's story is retol... 2020-07-01
                                                                        2020.0
[18]: #Show only the titles of all the TV Shows that were released in Pakistan.
      df[(df['Category']=='TV Show')&(df['Country']=='Pakistan')]['Title']
[18]: 2864
                        Humsafar
      3352
                          Khaani
      5338
                  Sadqay Tumhare
      7769
              Zindagi Gulzar Hai
      Name: Title, dtype: object
[19]: #Show top 5 directors who gave highest number of TV Shows and Movies to Netflix.
      df['Director'].value_counts().head()
```

4

Robert Luketic

```
[19]: Raúl Campos, Jan Suter
                                18
     Marcus Raboy
                                16
      Jay Karas
                                14
      Cathy Garcia-Molina
                                13
      Jay Chapman
                                12
      Name: Director, dtype: int64
[20]: #Show all the records where 'Category is Movies and Type is Comedies' or
       ⇔ 'Country is United states.
      df[(df['Category']=='Movie') & (df['Type']=='Comedies') |__
       [20]:
        Show_Id Category Title
                                       Director
      3
                    Movie
                                    Shane Acker
              s4
      4
              s5
                    Movie
                                 Robert Luketic
                             21
              s8
                    Movie
                            187
                                 Kevin Reynolds
      10
                                   Zak Hilditch
             s11
                    Movie 1922
      14
             s15
                    Movie 3022
                                     John Suits
                                                       Cast
                                                                   Country \
      3
          Elijah Wood, John C. Reilly, Jennifer Connelly... United States
          Jim Sturgess, Kevin Spacey, Kate Bosworth, Aar... United States
          Samuel L. Jackson, John Heard, Kelly Rowan, Cl... United States
      10 Thomas Jane, Molly Parker, Dylan Schmid, Kaitl... United States
          Omar Epps, Kate Walsh, Miranda Cosgrove, Angus... United States
               Release_Date Rating Duration \
      3
          November 16, 2017
                             PG-13
                                     80 min
      4
            January 1, 2020
                             PG-13
                                    123 min
      7
          November 1, 2019
                                    119 min
                                 R
      10
           October 20, 2017
                                    103 min
                             TV-MA
            March 19, 2020
                                     91 min
      14
                                 R
                                                       Type \
          Action & Adventure, Independent Movies, Sci-Fi ...
      3
      4
                                                     Dramas
      7
                                                     Dramas
      10
                                          Dramas, Thrillers
      14
            Independent Movies, Sci-Fi & Fantasy, Thrillers
                                                Description
                                                                  Date
                                                                          Year
          In a postapocalyptic world, rag-doll robots hi... 2017-11-16
      3
                                                                      2017.0
          A brilliant group of students become card-coun... 2020-01-01
      4
                                                                      2020.0
          After one of his high school students attacks ... 2019-11-01
                                                                      2019.0
      10 A farmer pens a confession admitting to his wi... 2017-10-20
                                                                      2017.0
      14 Stranded when the Earth is suddenly destroyed ... 2020-03-19
                                                                      2020.0
```

```
[21]: #Drop the null values from the dataset with the help of dropna() function
      df1=df.dropna()
      df1.head()
[21]:
        Show_Id Category Title
                                          Director \
             s2
                   Movie
                         07:19
                                 Jorge Michel Grau
      1
      2
                   Movie 23:59
                                      Gilbert Chan
             s3
      3
             s4
                   Movie
                              9
                                       Shane Acker
                   Movie
                             21
                                    Robert Luketic
             s5
                TV Show
             s6
                             46
                                       Serdar Akar
                                                      Cast
                                                                   Country \
      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
      5 Erdal Beşikçioğlu, Yasemin Allen, Melis Birkan...
                                                                  Turkey
              Release Date Rating Duration \
      1 December 23, 2016 TV-MA
                                     93 min
      2 December 20, 2018
                                     78 min
      3 November 16, 2017 PG-13
                                     80 min
           January 1, 2020 PG-13
                                    123 min
      5
              July 1, 2017 TV-MA 1 Season
                                                      Type \
      1
                              Dramas, International Movies
      2
                       Horror Movies, International Movies
      3
        Action & Adventure, Independent Movies, Sci-Fi...
      4
           International TV Shows, TV Dramas, TV Mysteries
      5
                                               Description
                                                                  Date
                                                                          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
                                                                      2018.0
      3 In a postapocalyptic world, rag-doll robots hi... 2017-11-16
                                                                      2017.0
      4 A brilliant group of students become card-coun... 2020-01-01
      5 A genetics professor experiments with a treatm... 2017-07-01
[22]: #In how many TV Shows/Movies Rajneesh Duggal was casted?
      df1[df1['Cast'].str.contains('Amina Khalil')]
[22]:
                                              Director \
           Show_Id Category
                                Title
                s7
                      Movie
                                  122
                                       Yasir Al Yasiri
      6205
             s6205
                      Movie
                            The Cell
                                        Tarek Al Eryan
```

```
Cast Country \
            Amina Khalil, Ahmed Dawood, Tarek Lotfy, Ahmed...
                                                               Egypt
            Ahmed Ezz, Mohamed Mamdouh, Samer al Masri, Am...
      6205
                                                               Egypt
      6913 Tamer Hosny, Akram Hosny, Amina Khalil, Dalal ...
                                                               Egypt
                 Release_Date Rating Duration \
      6
                 June 1, 2020
                               TV-MA
                                        95 min
      6205
                June 13, 2019
                               TV-MA
                                      126 min
            November 23, 2020
      6913
                               TV-14
                                        97 min
                                                          Type \
      6
                          Horror Movies, International Movies
      6205
             Action & Adventure, Dramas, International Movies
      6913 Action & Adventure, Comedies, International Mo...
                                                   Description
            After an awful accident, a couple admitted to ... 2020-06-01
                                                                          2020.0
            A special operations officer vows to get reven... 2019-06-13
      6205
                                                                         2019.0
      6913 After a duo of slackers dress up as policemen ... 2020-11-23
[23]: | #What are the different rating defined by Netflix, and how many Movies gotu
       →TV-14 Rating in United States?
      df1['Rating'].unique()
[23]: array(['TV-MA', 'R', 'PG-13', 'TV-14', 'TV-G', 'TV-PG', 'NR', 'PG', 'G',
             'TV-Y7', 'TV-Y', 'NC-17', 'TV-Y7-FV', 'UR'], dtype=object)
[24]: df1[(df1['Rating']=='TV-14') & (df1['Country']=='United States')].head()
[24]:
                                                              Title \
          Show_Id Category
      33
              s34
                     Movie
                                                       #realityhigh
      47
              s48
                     Movie
                                                      1 Mile to You
      184
                           A Haunting at Silver Falls: The Return
             s185
                     Movie
                                         A Stoning in Fulham County
      232
             s233
                     Movie
      247
             s248
                     Movie
                                            A Very Murray Christmas
                   Director
                                                                            Cast \
           Fernando Lebrija Nesta Cooper, Kate Walsh, John Michael Higgins...
      33
                Leif Tilden Billy Crudup, Graham Rogers, Liana Liberato, S...
      47
               Teo Konuralp Laura Flannery, James Cavlo, Harry Hains, Clem ...
      184
              Larry Elikann Ken Olin, Jill Eikenberry, Maureen Mueller, Gr...
      232
              Sofia Coppola Bill Murray, Miley Cyrus, George Clooney, Chri...
      247
                 Country
                                Release_Date Rating Duration \
```

Mohammad Adel

6913

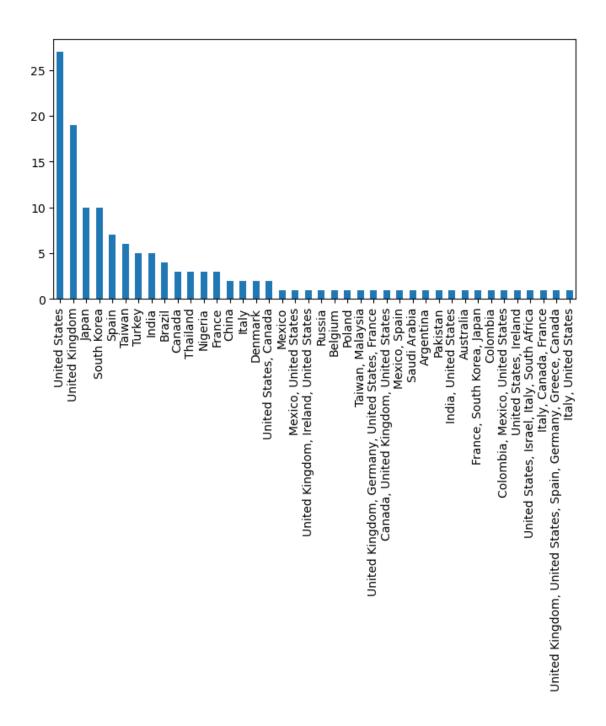
s6912

Movie The Suit

```
33
           United States
                            September 8, 2017
                                                TV-14
                                                        99 min
                                 July 7, 2017
      47
           United States
                                                TV-14
                                                       105 min
      184 United States
                           September 17, 2019
                                                TV-14
                                                        80 min
                              October 1, 2011
      232
           United States
                                                TV-14
                                                        95 min
      247 United States
                             December 4, 2015
                                                TV-14
                                                        57 min
                                               Type \
      33
                                          Comedies
      47
           Dramas, Romantic Movies, Sports Movies
      184
                Horror Movies, Independent Movies
      232
                                             Dramas
      247
                        Comedies, Music & Musicals
                                                   Description
                                                                              Year
                                                                      Date
      33
           When nerdy high schooler Dani finally attracts... 2017-09-08
                                                                          2017.0
      47
           After escaping the bus accident that killed hi... 2017-07-07
                                                                          2017.0
           When the ghost of her serial killer aunt seemi... 2019-09-17
      184
                                                                          2019.0
      232
           After reckless teens kill an Amish child, a pr... 2011-10-01
                                                                          2011.0
      247
           Bill Murray rounds up an all-star cast for an ... 2015-12-04
                                                                          2015.0
[25]: | #Which country has the highest no. of TV Shows? Show with the bar graph.
      tvshows=df1[df1['Category']=='TV Show']
      tvshows.head()
[25]:
          Show_Id Category
                                       Title
                                                    Director
      5
               s6
                   TV Show
                                          46
                                                 Serdar Akar
      132
             s133
                   TV Show
                                   7 (Seven)
                                                 Nizar Shafi
      218
             s219
                   TV Show
                            A Queen Is Born
                                                Carla Barros
      260
             s261
                   TV Show
                                    A.I.C.O.
                                              Kazuya Murata
      276
                                Abby Hatcher
                                                 Kyran Kelly
             s277
                   TV Show
                                                                               Country \
                                                          Cast
      5
           Erdal Beşikçioğlu, Yasemin Allen, Melis Birkan...
                                                                              Turkey
      132
           Rahman, Havish, Regina Cassandra, Nandita Swet...
                                                                               India
      218
                                Gloria Groove, Alexia Twister
                                                                                Brazil
      260
           Haruka Shiraishi, Yusuke Kobayashi, Makoto Fur...
                                                                               Japan
      276
           Macy Drouin, Wyatt White, Paul Sun-Hyung Lee, ... United States, Canada
                Release_Date Rating
                                      Duration
      5
                July 1, 2017
                               TV-MA
                                      1 Season
      132
               July 30, 2019
                               TV-14
                                     1 Season
      218
           November 11, 2020
                               TV-14
                                      1 Season
      260
               March 9, 2018
                               TV-14
                                      1 Season
      276
                July 1, 2020
                                TV-Y 1 Season
```

Type \

```
5
           International TV Shows, TV Dramas, TV Mysteries
      132
                                                   TV Shows
      218
                        International TV Shows, Reality TV
      260
                      Anime Series, International TV Shows
      276
                                                   Kids' TV
                                                 Description
                                                                    Date
                                                                            Year
           A genetics professor experiments with a treatm... 2017-07-01
                                                                        2017.0
      5
      132 Multiple women report their husbands as missin... 2019-07-30
                                                                        2019.0
      218 Gloria Groove and Alexia Twister make drag dre... 2020-11-11
                                                                        2020.0
      260 Everything Aiko knew was a lie. Now she's join... 2018-03-09
                                                                        2018.0
      276 A big-hearted girl helps her Fuzzly friends wh... 2020-07-01
                                                                        2020.0
[26]: tvshows.Country.value_counts().head()
[26]: United States
                        27
      United Kingdom
                        19
      Japan
                        10
      South Korea
                        10
                         7
      Spain
      Name: Country, dtype: int64
[27]: plt.figure(figsize=[8,4])
      tvshows.Country.value_counts().plot(kind='bar')
[27]: <AxesSubplot:>
```



[]: