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

```
2016
                                                           December 20,
                                               Singapore
2
2018
                                           United States
                                                           November 16.
2017
                                           United States
                                                             January 1,
2020
. . .
7784
      Sweden, Czech Republic, United Kingdom, Denmar... October 19,
2020
7785
                                                   India
                                                               March 2,
2019
7786
                                                     NaN
                                                          September 25,
2020
7787
                                               Australia
                                                            October 31,
2020
                  United Kingdom, Canada, United States
7788
                                                               March 1,
2020
     Rating
              Duration
Type
0
      TV-MA
             4 Seasons
                        International TV Shows, TV Dramas, TV Sci-Fi
&...
      TV-MA
                93 min
                                              Dramas, International
Movies
                78 min
                                       Horror Movies, International
2
        R
Movies
                80 min Action & Adventure, Independent Movies, Sci-
      PG-13
Fi...
      PG-13
               123 min
Dramas
7784 TV-MA
                99 min
                                              Dramas, International
Movies
                           Dramas, International Movies, Music &
7785
     TV - 14
               111 min
Musicals
                        Documentaries, International Movies, Music &
7786 TV-MA
                44 min
М...
                                        International TV Shows, Reality
7787 TV-PG
              1 Season
TV
7788 TV-MA
                90 min
                                           Documentaries, Music &
Musicals
                                             Description
      In a future where the elite inhabit an island ...
0
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...
      When Lebanon's Civil War deprives Zozo of his ...
7784
     A scrappy but poor boy worms his way into a ty...
7785
      In this documentary, South African rapper Nast...
7786
7787
      Dessert wizard Adriano Zumbo looks for the nex...
7788
      This documentary delves into the mystique behi...
[7789 rows x 11 columns]
data.head()
               #top five record of the data set
  Show Id Category
                    Title
                                    Director \
          TV Show
       s1
                       3%
                                          NaN
1
       s2
             Movie
                    07:19
                           Jorge Michel Grau
2
       s3
             Movie 23:59
                                Gilbert Chan
3
       s4
             Movie
                        9
                                 Shane Acker
       s5
             Movie
                       21
                              Robert Luketic
                                                 Cast
                                                             Country \
   João Miguel, Bianca Comparato, Michel Gomes, R...
                                                              Brazil
   Demián Bichir, Héctor Bonilla, Oscar Serrano, ...
                                                              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
     August 14, 2020
                     TV-MA
                             4 Seasons
   December 23, 2016
1
                     TV - MA
                                93 min
   December 20, 2018
                                78 min
                          R
3
   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
                 Horror Movies, International Movies
3
  Action & Adventure, Independent Movies, Sci-Fi...
                                               Dramas
                                          Description
  In a future where the elite inhabit an island ...
  After a devastating earthquake hits Mexico Cit...
  When an army recruit is found dead, his fellow...
   In a postapocalyptic world, rag-doll robots hi...
  A brilliant group of students become card-coun...
                     #to show bottom five record of the data set
data.tail()
```

		Category	Title	
Director	•			_
	s7783	Movie	Zozo Jose	<u>†</u>
Fares	7704			
	57784	Movie	Zubaan Moze	żZ
Singh	7705		- 1 W · 1	
	57785	Movie	Zulu Man in Japan	
NaN	- 7706	TV Char	7 mb la 1 al Danasta	
	57786	TV Show	Zumbo's Just Desserts	
NaN	-7707	Marria	77 TOD. THAT LITTLE OLD DAND FROM TEVAC	•
	57787	Movie	ZZ TOP: THAT LITTLE OL' BAND FROM TEXAS S	Sam
Dunn				
			Cast \	
7784 In	mad Cı	caidi Anto	oinette Turk, Elias Gergi, Car	
			arah-Jane Dias, Raaghav Chanan	
7786	LCRy I	(dusilat, s	Nasty C	
7787			Adriano Zumbo, Rachel Khoo	
7788			NaN	
7700			Nun	
			Country	
Release	Date	\	•	
			<pre>public, United Kingdom, Denmar</pre>	9,
2020			•	
7785			India March	2,
2019				
7786			NaN September 2	25,
2020				
7787			Australia October 3	31,
2020				
7788		Unit	ed Kingdom, Canada, United States March	1,
2020				
D = 1	h d 100 m	Dunada		
	ting	Duration		
Type \	/ MA	00	Duamas Intonnational	
7784 T\ Movies	/ - MA	99 min	Dramas, International	
	/ - 14	111 min	Dramas, International Movies, Music &	
Musicals		111 111111	Diamas, international movies, music &	
	/ - MA	44 min	Documentaries, International Movies, Music &	
M	V - I·IA	44 11111	Documentaries, international movies, music Q	
	/-PG	1 Season	International TV Shows, Realit	
TV	V - 1 U	1 JCG3011	international iv Shows, Neatle	. y
	/ - MA	90 min	Documentaries, Music &	
Musicals		30 III±11	Documental 163, Haste &	
. IdJICaC				
			Description	
7784 Wł	nen Le	ebanon's C	ivil War deprives Zozo of his	
			or boy worms his way into a ty	
			ary, South African rapper Nast	

```
Dessert wizard Adriano Zumbo looks for the nex...
7787
7788 This documentary delves into the mystique behi...
                                     #shape is used to show number of
data.shape
rows & column
(7789, 11)
data.size
                              #to show the number of total
values(element) in the dataset
85679
data.columns
                     #to show each column name
Index(['Show_Id', 'Category', 'Title', 'Director', 'Cast', 'Country',
       'Release_Date', 'Rating', 'Duration', 'Type', 'Description'],
      dtype='object')
data.dtypes
                                  #to show the data types of each
columns
Show Id
                object
Category
                object
Title
                object
Director
                object
Cast
                object
Country
                object
Release Date
                object
Rating
                object
Duration
                object
Type
                object
Description
                object
dtype: object
data.info()
                                    #to show indexes, columns, data-
types of each columns, memory at once
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 7789 entries, 0 to 7788
Data columns (total 11 columns):
                   Non-Null Count
 #
     Column
                                   Dtype
- - -
 0
     Show Id
                   7789 non-null
                                   object
 1
     Category
                   7789 non-null
                                   object
 2
     Title
                   7789 non-null
                                   object
 3
     Director
                   5401 non-null
                                   object
 4
     Cast
                   7071 non-null
                                   object
     Country
 5
                   7282 non-null
                                   object
     Release Date 7779 non-null
 6
                                   object
 7
     Rating
                   7782 non-null
                                   object
```

```
8
                   7789 non-null
     Duration
                                   object
 9
     Type
                   7789 non-null
                                   object
10
     Description
                   7789 non-null
                                   object
dtypes: object(11)
memory usage: 669.5+ KB
#Q.1 - if there is any duplicate record in this dataset? if yes , then
remove the duplicate records
#duplicate()
data.head()
  Show Id Category
                    Title
                                    Director \
0
          TV Show
       s1
                       3%
                                         NaN
1
             Movie 07:19
       s2
                           Jorge Michel Grau
2
       s3
             Movie 23:59
                                Gilbert Chan
3
                                 Shane Acker
       s4
             Movie
                        9
       s5
             Movie
                       21
                              Robert Luketic
                                                Cast
                                                            Country \
  João Miguel, Bianca Comparato, Michel Gomes, R...
                                                             Brazil
  Demián Bichir, Héctor Bonilla, Oscar Serrano, ...
                                                             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 \
     August 14, 2020
0
                     TV-MA
                             4 Seasons
  December 23, 2016
                                93 min
1
                     TV-MA
  December 20, 2018
                          R
                                78 min
  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...
                                              Dramas
                                         Description
  In a future where the elite inhabit an island ...
  After a devastating earthquake hits Mexico Cit...
1
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...
data.shape
(7789, 11)
```

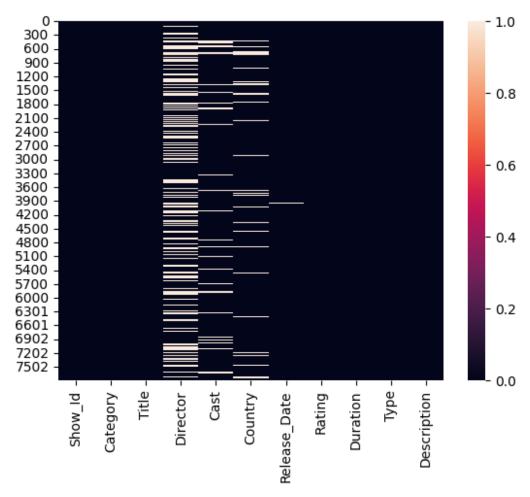
```
#to check row wise & detect
data[data.duplicated()]
the Duplicate rows
                                                Director \
     Show Id Category
                                   Title
6300
        s684
                Movie
                                Backfire
                                             Dave Patten
                Movie The Lost Okoroshi Abba T. Makama
6622
       s6621
                                                   Cast
                                                               Country
      Black Deniro, Byron "Squally" Vinson, Dominic ... United States
6300
6622 Seun Ajayi, Judith Audu, Tope Tedela, Ifu Enna...
                                                               Nigeria
           Release Date Rating Duration \
          April 5, 2019 TV-MA
6300
                                 97 min
6622 September 4, 2020 TV-MA
                                 94 min
                                       Type \
6300
      Dramas, Independent Movies, Thrillers
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()
     Show Id Category
                                                         Title \
0
          s1
             TV Show
                                                            3%
                                                         07:19
1
          s2
                Movie
2
          s3
                Movie
                                                         23:59
3
          s4
                Movie
                                                             9
4
          s5
                Movie
                                                            21
7784
       s7783
                Movie
                                                          Zozo
7785
       s7784
                Movie
                                                        Zubaan
7786
       s7785
                Movie
                                             Zulu Man in Japan
                                         Zumbo's Just Desserts
7787
       s7786
             TV Show
                Movie ZZ TOP: THAT LITTLE OL' BAND FROM TEXAS
7788
       s7787
               Director
Cast
0
                    NaN João Miguel, Bianca Comparato, Michel Gomes,
R...
     Jorge Michel Grau Demián Bichir, Héctor Bonilla, Oscar Serrano,
1
. . .
2
           Gilbert Chan Tedd Chan, Stella Chung, Henley Hii, Lawrence
            Shane Acker Elijah Wood, John C. Reilly, Jennifer
3
Connelly...
```

4 Aar	Robert Luketic	Jim Sturgess, Kevin Spacey, Kat	e Bosworth,
7784 Car	Josef Fares	Imad Creidi, Antoinette Turk, E	lias Gergi,
7785 Chanan	Mozez Singh	Vicky Kaushal, Sarah-Jane Dias,	Raaghav
7786 Nasty C	NaN		
7787 Khoo	NaN	Adriano	Zumbo, Rachel
7788 NaN	Sam Dunn		
		Country	
Release_[Date \	Brazil	August 14,
2020 1		Mexico	December 23,
2016 2 2018		Singapore	December 20,
3 2017		United States	November 16,
4 2020		United States	January 1,
	eden, Czech Repo	ublic, United Kingdom, Denmar	October 19,
7785 2019		India	March 2,
7786 2020		NaN	September 25,
7787 2020		Australia	October 31,
7788 2020	United	d Kingdom, Canada, United States	March 1,
Rati	ing Duration		
	-MA 4 Seasons	International TV Shows, TV Drama	s, TV Sci-Fi
	-MA 93 min	Dramas, Int	ernational
2 Movies	R 78 min	Horror Movies, Int	ernational
	-13 80 min	Action & Adventure, Independent	Movies, Sci-

```
Fi...
      PG-13
               123 min
4
Dramas
7784 TV-MA
                99 min
                                             Dramas, International
Movies
7785 TV-14
                           Dramas, International Movies, Music &
               111 min
Musicals
7786 TV-MA
                44 min
                        Documentaries, International Movies, Music &
М...
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...
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...
     In this documentary, South African rapper Nast...
7786
7787
      Dessert wizard Adriano Zumbo looks for the nex...
7788
     This documentary delves into the mystique behi...
[7787 rows x 11 columns]
data.drop duplicates(inplace=True)
                                              #to remove the
duplicate row 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)
data.head()
  Show Id Category
                    Title
                                    Director \
       s1 TV Show
0
                       3%
                                         NaN
1
       s2
             Movie
                    07:19
                           Jorge Michel Grau
2
                                Gilbert Chan
       s3
             Movie 23:59
```

```
3
       s4
                                 Shane Acker
             Movie
4
                              Robert Luketic
       s5
             Movie
                       21
                                                Cast
                                                             Country \
   João Miguel, Bianca Comparato, Michel Gomes, R...
                                                              Brazil
  Demián Bichir, Héctor Bonilla, Oscar Serrano, ...
                                                              Mexico
1
  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
     August 14, 2020
0
                     TV - MA
                             4 Seasons
   December 23, 2016
                     TV - MA
                                93 min
   December 20, 2018
                                78 min
                          R
   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
2
                 Horror Movies, International Movies
3
  Action & Adventure, Independent Movies, Sci-Fi...
                                               Dramas
                                         Description
  In a future where the elite inhabit an island ...
  After a devastating earthquake hits Mexico Cit...
  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...
#is there any null value present in any column? show with heat-map.
#isnull()
data.isnull()
#to show where Null values is present
                                                           Release Date
      Show Id Category Title Director Cast Country
0
        False
                  False False
                                    True
                                         False
                                                    False
                                                                  False
        False
                  False False
                                   False
                                         False
                                                    False
                                                                  False
                  False False
                                   False False
2
        False
                                                    False
                                                                  False
        False
                  False False
                                   False False
                                                    False
                                                                  False
        False
                  False False
                                   False False
                                                    False
                                                                  False
7784
        False
                  False False
                                   False False
                                                    False
                                                                  False
```

7785	False	False	False	False	False	False	False		
7786	False	False	False	True	False	True	False		
7787	False	False	False	True	False	False	False		
7788	False	False	False	False	True	False	False		
0 1 2 3 4 7784 7785 7786 7787 7788	Rating False False False False False False False False	Duration False	Type False	Descriptio Fals Fals Fals Fals Fals Fals Fals Fals	e e e e e e e e				
[7787 rows x 11 columns]									
<pre>data.isnull().sum() values in each columns</pre> #to show the count of null									
Categor Title Direct Cast Countr Releas Rating Durati Type Descri	Director 2388 Cast 718 Country 507 Release_Date 10 Rating 7 Duration 0								
<pre>#seaborn library (heat-map) import seaborn as sns #to import seaborn library</pre>									
<pre>sns.heatmap(data.isnull())</pre>									
<axes:></axes:>									



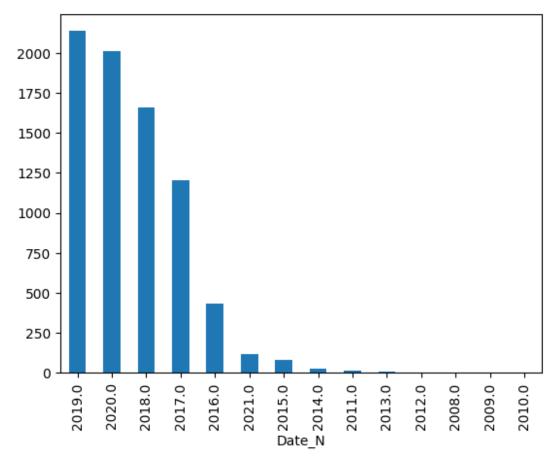
```
#for 'house of Cards', what is the show id and who is the director of
this show ?
#isin()
data.head()
  Show Id Category
                    Title
                                     Director \
0
           TV Show
       s1
                        3%
                                          NaN
             Movie
1
                    07:19
       s2
                            Jorge Michel Grau
2
       s3
             Movie
                    23:59
                                 Gilbert Chan
3
       s4
             Movie
                         9
                                  Shane Acker
4
       s5
             Movie
                        21
                               Robert Luketic
                                                  Cast
                                                              Country \
   João Miguel, Bianca Comparato, Michel Gomes, R...
                                                               Brazil
1
   Demián Bichir, Héctor Bonilla, Oscar Serrano, ...
                                                               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
```

```
December 23, 2016 TV-MA
                                93 min
2
  December 20, 2018
                          R
                                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 &...
1
                        Dramas, International Movies
2
                 Horror Movies, International Movies
3
  Action & Adventure, Independent Movies, Sci-Fi...
                                               Dramas
                                         Description
  In a future where the elite inhabit an island ...
  After a devastating earthquake hits Mexico Cit...
1
  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...
data['Title'] #To show all record of a particular item in any
column
0
                                             3%
                                          07:19
1
2
                                          23:59
3
                                              9
4
                                             21
7784
                                            Zozo
7785
                                         Zubaan
7786
                              Zulu Man in Japan
7787
                          Zumbo's Just Desserts
7788
        ZZ TOP: THAT LITTLE OL' BAND FROM TEXAS
Name: Title, Length: 7787, dtype: object
data['Title'].isin(['HOUSE of cards'])
                                                   #To show all record
of a particular item in any column
0
        False
1
        False
2
        False
3
        False
4
        False
7784
        False
7785
        False
7786
        False
7787
        False
7788
        False
Name: Title, Length: 7787, dtype: bool
```

```
data[data['Title'].isin(['House of Cards'])]
    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 ...
#str.contains()
#To show all records of a particular string in any column
data[data['Title'].str.contains('House of Cards')]
    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 ...
#Q2- In Which year hiighest number of the Tv shows & Movies Were
released? Show with Bar Graph.
#dtypes
data.dtypes
Show Id
               object
Category
               object
Title
               object
Director
               object
Cast
               object
Country
               object
```

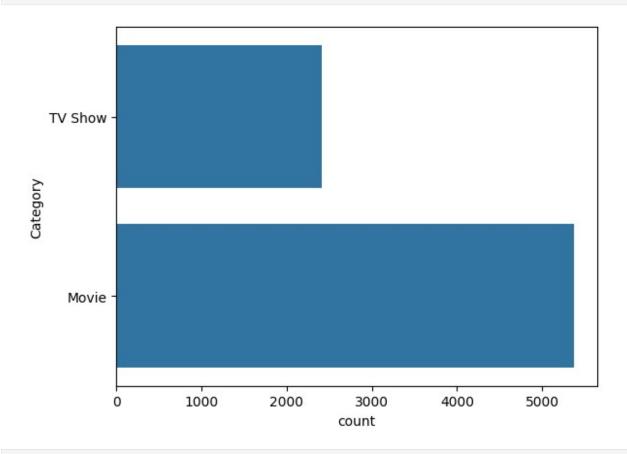
```
Release Date
                object
                object
Rating
Duration
                object
Type
                object
Description
                object
dtype: object
#to datetime
data['Date N'] = pd.to datetime(data['Release Date'], errors='coerce')
data.head()
                    Title
  Show Id Category
                                    Director \
0
          TV Show
                       3%
       s1
                                         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
                                                            Country \
                                                Cast
  João Miguel, Bianca Comparato, Michel Gomes, R...
                                                             Brazil
  Demián Bichir, Héctor Bonilla, Oscar Serrano, ...
                                                             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
  December 23, 2016 TV-MA
                                93 min
1
  December 20, 2018
2
                          R
                                78 min
3
   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
  In a future where the elite inhabit an island ... 2020-08-14
  After a devastating earthquake hits Mexico Cit... 2016-12-23
2 When an army recruit is found dead, his fellow... 2018-12-20
  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() #it counts the occurrence of all individual
year in date columns.
data['Date N'].dt.year.value counts()
Date N
2019.0
          2136
2020.0
          2008
2018.0
          1661
2017.0
          1201
2016.0
          432
2021.0
           117
2015.0
            79
2014.0
            24
2011.0
            13
2013.0
            10
             3
2012.0
             2
2008.0
             2
2009.0
2010.0
            1
Name: count, dtype: int64
#bar graph
data['Date_N'].dt.year.value_counts().plot(kind='bar')
<Axes: xlabel='Date N'>
```



```
#Q3- how many Movies & Tv shows are in the dataset? show with bar
graph.
#groupby()
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... Brazil
1 Demián Bichir, Héctor Bonilla, Oscar Serrano, ... Mexico
        Release_Date Rating
                              Duration \
0
     August 14, 2020 TV-MA
                             4 Seasons
  December 23, 2016 TV-MA
                                93 min
                                                Type \
0
   International TV Shows, TV Dramas, TV Sci-Fi &...
                        Dramas, International Movies
                                         Description
                                                         Date N
```

```
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')
<pandas.core.groupby.generic.DataFrameGroupBy object at</pre>
0x00000295B9B78C80>
data.groupby('Category').Category.count() #To group all unique
items of columns & show their count
Category
Movie
           5377
TV Show
           2410
Name: Category, dtype: int64
#countplot() #to show the count of all unique values of any columns
in the form of bar graph
sns.countplot(data['Category'])
<Axes: xlabel='count', ylabel='Category'>
```



#04 - Show all the movies that were released in year 2000 &2020. data.head(2)

```
Show Id Category
                  Title
                                  Director \
      s1 TV Show
0
                      3%
                                       NaN
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
                           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
#creating a new columns
                        #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%
                                       NaN
            Movie 07:19 Jorge Michel Grau
1
      s2
                                              Cast Country \
O João Miguel, Bianca Comparato, Michel Gomes, R... Brazil
1 Demián Bichir, Héctor Bonilla, Oscar Serrano, ... Mexico
       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
                                       Description
                                                      Date 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
```

```
#Filtering
#data[(data['category']--'Movie')&(data['year']--200)]
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: []
#movies released in 2020
data[(data['Category']=='Movie') & (data['year']==2020)]
     Show Id Category
                                                           Title \
4
          s5
                Movie
                                                              21
6
          s7
                Movie
                                                             122
14
         s15
                Movie
                                                            3022
27
         s28
                Movie
                                                          #Alive
28
         s29
                Movie
                                  #AnneFrank - Parallel Stories
. . .
7762
       s7761
                Movie
                                                      Zaki Chan
7783
       s7782
                Movie
                                                            Zoom
7784
       s7783
                Movie
                                                            Zozo
7786
       s7785
                Movie
                                              Zulu Man in Japan
                Movie ZZ TOP: THAT LITTLE OL' BAND FROM TEXAS
7788
       s7787
                         Director \
4
                   Robert Luketic
6
                  Yasir Al Yasiri
14
                       John Suits
27
                            Cho Il
28
      Sabina Fedeli, Anna Migotto
7762
                       Wael Ihsan
                     Peter Hewitt
7783
7784
                      Josef Fares
7786
                               NaN
7788
                          Sam Dunn
                                                    Cast \
4
      Jim Sturgess, Kevin Spacey, Kate Bosworth, Aar...
      Amina Khalil, Ahmed Dawood, Tarek Lotfy, Ahmed...
6
      Omar Epps, Kate Walsh, Miranda Cosgrove, Angus...
14
27
                                Yoo Ah-in, Park Shin-hye
28
                             Helen Mirren, Gengher Gatti
7762
      Ahmed Helmy, Yasmin Abdulaziz, Hassan Hosny, H...
      Tim Allen, Courteney Cox, Chevy Chase, Kate Ma...
7783
      Imad Creidi, Antoinette Turk, Elias Gergi, Car...
7784
7786
                                                 Nasty C
7788
                                                      NaN
```

			Country
Release_Da	te \		
4			United States January 1,
2020			Farrat 1.00 1
6 2020			Egypt June 1,
14			United States March 19,
2020			United States March 19,
27			South Korea September 8,
2020			South Noted September 0,
28			Italy July 1,
2020			
7762			Egypt May 19,
2020			
7783			United States January 11,
2020			
	en, Cz	ech R	Republic, United Kingdom, Denmar October 19,
2020			
7786			NaN September 25,
2020			had Kinadan Canada Haitad Chaba Marab 1
7788		Uni	ted Kingdom, Canada, United States March 1,
2020			
Ratin	g Dura	tion	
Type \	, Dura	CIOII	
4 PG-1	3 123	min	
Dramas			
6 TV-M	95	min	Horror Movies, International
Movies			
14	R 91	min	<pre>Independent Movies, Sci-Fi & Fantasy,</pre>
Thrillers			
	4 99	min	Horror Movies, International Movies,
Thrillers			
28 TV-1		min min	Horror Movies, International Movies, Documentaries, International
28 TV-1			
28 TV-14 Movies	1 95	min 	Documentaries, International
28 TV-14 Movies 7762 TV-Pe	1 95		
28 TV-14 Movies 7762 TV-Pe Movies	4 95 G 109	min min	Documentaries, International Comedies, International Movies, Romantic
28 TV-14 Movies 7762 TV-P4 Movies 7783 P4	4 95 G 109	min 	Documentaries, International
28 TV-14 Movies 7762 TV-P Movies 7783 P Comedies	4 95 G 109 G 88	min min min	Documentaries, International Comedies, International Movies, Romantic Children & Family Movies,
28 TV-14 Movies 7762 TV-P Movies 7783 P Comedies 7784 TV-M	4 95 G 109 G 88	min min	Documentaries, International Comedies, International Movies, Romantic
28 TV-14 Movies 7762 TV-P Movies 7783 P Comedies 7784 TV-M Movies	4 95 5 109 6 88 A 99	min min min min	Documentaries, International Comedies, International Movies, Romantic Children & Family Movies, Dramas, International
28 TV-14 Movies 7762 TV-PMovies 7783 PCOmedies 7784 TV-MMovies 7786 TV-M	4 95 5 109 6 88 A 99	min min min	Documentaries, International Comedies, International Movies, Romantic Children & Family Movies,
28 TV-14 Movies 7762 TV-P Movies 7783 P Comedies 7784 TV-M Movies	4 95 5 109 6 88 A 99 A 44	min min min min	Documentaries, International Comedies, International Movies, Romantic Children & Family Movies, Dramas, International

```
Musicals
                                            Description
                                                            Date N
year
     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
      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
      Through her diary, Anne Frank's story is retol... 2020-07-01
28
2020.0
. . .
. . .
7762 An unqualified young man has his work cut out ... 2020-05-19
2020.0
7783 Dragged from civilian life, a former superhero... 2020-01-11
2020.0
7784 When Lebanon's Civil War deprives Zozo of his ... 2020-10-19
2020.0
7786 In this documentary, South African rapper Nast... 2020-09-25
2020.0
7788 This documentary delves into the mystique behi... 2020-03-01
2020.0
[1312 rows \times 13 columns]
#Q5-Shows only the title of all tv shows that were released in india
only.
#Filterina
data.head(2)
  Show Id Category
                                    Director \
                   Title
0
       s1 TV Show
                       3%
                                         NaN
       s2
             Movie 07:19 Jorge Michel Grau
1
                                                Cast Country \
O João Miguel, Bianca Comparato, Michel Gomes, R... Brazil
1 Demián Bichir, Héctor Bonilla, Oscar Serrano, ... Mexico
        Release Date Rating
                              Duration \
                     TV - MA
0
     August 14, 2020
                             4 Seasons
  December 23, 2016 TV-MA
                                93 min
                                                Type \
  International TV Shows, TV Dramas, TV Sci-Fi &...
                        Dramas, International Movies
```

```
Description
                                                         Date N
vear
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']
data[ (data['Category']=='TV Show') & (data['Country']=='India') ]
['Title']
86
              21 Sarfarosh: Saragarhi 1897
132
                                 7 (Seven)
                              Agent Raghav
340
364
                              Akbar Birbal
533
                       Anjaan: Rural Myths
6249
                      The Creative Indians
        The Golden Years with Javed Akhtar
6400
6469
                    The House That Made Me
7294
                                Typewriter
7705
                           Yeh Meri Family
Name: Title, Length: 71, dtype: object
#Q6- Show Top10 Directors, Who gave the highest number of TV Shows &
Movies to Netflix?
#Value counts()
#data['Director'].value Counts().head(10)
data.head(2)
  Show Id Category
                    Title
                                    Director \
       s1 TV Show
0
                       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, ... Mexico
        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 &...
                        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['Director'].value_counts().head(10)
Director
Raúl Campos, Jan Suter
                          18
Marcus Raboy
                          16
Jay Karas
                          14
Cathy Garcia-Molina
                          13
Jay Chapman
                          12
Youssef Chahine
                          12
Martin Scorsese
                          12
Steven Spielberg
                          10
David Dhawan
                           9
Hakan Algül
                           8
Name: count, dtype: int64
#Q7- Show all the records, Where "Category is Movie & Type is Comedies "
or "County is united kingdom".
#Filtering(And,Or Operators)
#data[(data['Category']=='Movie') & (data['Type']=='Comedies')]
data.head(2)
  Show Id Category
                   Title
                                    Director \
0
       s1 TV Show
                       3%
                                         NaN
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
                             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
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['Type']=='Comedies')]
     Show Id Category
                                             Title
Director \
```

	34 Movie		#	real	ityhig	jh	Fer	nando		
	73 Movie			1	.7 Agai	.n		Burr		
	85 Movie			21	. & 0ve	er Jon	Lucas	s, Scott		
Moore 148 sl	49 Movie		A Bad Mom	s Ch	ristma	as Jon	Lucas	s, Scott		
Moore 174 s1	75 Movie	A Futil	e and Stu	pid	Gestur	-e		David		
Wain 										
7341 s73 Small	40 Movie		Undercove	r Br	other	2		Leslie		
7590 s75 Zabielski	89 Movie		Where'	s th	e Mone	ey	So	cott		
7623 s76 Tennant	22 Movie			Wi	.ld 0at	:S		Andy		
7634 s76 Poehler	33 Movie		V	ine	Countr	- у		Amy		
7664 s76 Terruso	63 Movie				Work I	[t		Laura		
1011430						Cast	\			
72 Zac 84 Mile 148 Mila	Nesta Cooper, Kate Walsh, John Michael Higgins Zac Efron, Leslie Mann, Matthew Perry, Thomas Miles Teller, Skylar Astin, Justin Chon, Sarah Mila Kunis, Kristen Bell, Kathryn Hahn, Susan									
7341 Michael Jai White, Vince Swann, Barry Bostwick 7590 Andrew Bachelor, Kat Graham, Mike Epps, Terry 7623 Shirley MacLaine, Jessica Lange, Billy Connoll 7634 Amy Poehler, Maya Rudolph, Ana Gasteyer, Rache 7664 Sabrina Carpenter, Jordan Fisher, Liza Koshy,										
Tuno	(Country	Rele	ase_	Date F	Rating I	Durati	.on		
Type \ 33	United	States	September	8,	2017	TV-14	99 n	nin		
Comedies 72	United	States	January	1,	2021	PG-13	102 n	nin		
Comedies 84	United	States	April	16,	2019	R	93 n	nin		
Comedies 148 Un Comedies	ited States,	China	February	14,	2020	R	104 n	nin		
174 Comedies	United	States	January	26,	2018	TV-MA	102 n	nin		
Comedies							_			

```
United States
                               November 5, 2019
7341
                                                      R
                                                          85 min
Comedies
7590
               United States
                               January 22, 2018
                                                          86 min
                                                      R
Comedies
7623 Germany, United States
                                   May 13, 2017 PG-13
                                                          86 min
Comedies
7634
               United States
                                   May 10, 2019
                                                      R
                                                         104 min
Comedies
7664
               United States
                                 August 7, 2020 TV-14
                                                          94 min
Comedies
                                            Description
                                                             Date N
year
      When nerdy high schooler Dani finally attracts... 2017-09-08
33
2017.0
      Nearing a midlife crisis, thirty-something Mik... 2021-01-01
72
2021.0
      Jeff's straight-and-narrow life changes abrupt... 2019-04-16
84
2019.0
148
      Stressed-out moms Amy, Carla and Kiki are back... 2020-02-14
2020.0
174
      In a brief life full of triumph and failure, "... 2018-01-26
2018.0
. . .
7341 When a beloved secret agent falls deep into a ... 2019-11-05
2019.0
7590 Hunting for a stash of stolen money, a sharp-w... 2018-01-22
2018.0
7623 When insurance accidentally pays her millions,... 2017-05-13
2017.0
7634 When longtime friends meet up for a wine-soake... 2019-05-10
2019.0
7664 A brilliant but clumsy high school senior vows... 2020-08-07
2020.0
[97 rows x 13 columns]
#Now applying or Operator | in above syntax .
data[(data['Category']=='Movie') & (data['Type']=='Comedies') |
(data['Country']=='United Kingdom')]
     Show Id Category
                                         Title
                                                        Director \
19
                                           '89
         s20
                Movie
                                                             NaN
33
         s34
                Movie
                                 #realityhigh Fernando Lebrija
              TV Show
58
         s59
                                   100% Hotter
                                                             NaN
                                                     Burr Steers
72
                Movie
                                      17 Again
         s73
82
                          2036 Origin Unknown
                                                   Hasraf Dulull
         s83
                Movie
. . .
```

```
7670
                       World War II in Colour
       s7669
              TV Show
                                                             NaN
7671
       s7670
              TV Show
                       World's Busiest Cities
                                                             NaN
7688
       s7687
                Movie XV: Beyond the Tryline Pierre Deschamps
7725
       s7724
                Movie
                                  You Can Tutu
                                                     James Brown
                              Young Wallander
7740
       s7739
              TV Show
                                                             NaN
                                                    Cast
Country \
                     Lee Dixon, Ian Wright, Paul Merson United
19
Kingdom
      Nesta Cooper, Kate Walsh, John Michael Higgins...
33
                                                           United
States
58
      Daniel Palmer, Melissa Sophia, Karen Williams,...
                                                          United
Kingdom
      Zac Efron, Leslie Mann, Matthew Perry, Thomas ...
                                                           United
States
      Katee Sackhoff, Ray Fearon, Julie Cox, Steven ...
82
                                                          United
Kingdom
. . .
7670
                                           Robert Powell United
Kingdom
                     Anita Rani, Ade Adepitan, Dan Snow United
7671
Kingdom
7688
                                                     NaN
                                                          United
Kingdom
7725 Lily O'Regan, Jeannettsy Enriquez Borges, Joel...
                                                          United
Kingdom
7740 Adam Pålsson, Richard Dillane, Leanne Best, El... United
Kinadom
           Release Date Rating
                                 Duration \
           May 16, 2018
19
                                   87 min
                         TV-PG
33
      September 8, 2017
                         TV - 14
                                   99 min
58
       November 1, 2019
                         TV - 14
                                1 Season
72
        January 1, 2021
                         PG-13
                                 102 min
      December 20, 2018
82
                         TV - 14
                                   95 min
. . .
                            . . .
         August 1, 2017
7670
                         TV-MA
                                1 Season
       February 1, 2019
7671
                         TV-PG
                                1 Season
         March 18, 2020
7688
                         TV - 14
                                   91 min
      December 31, 2017
                         TV-G
7725
                                   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
7671
                           British TV Shows, Docuseries
7688
                           Documentaries, Sports Movies
7725
                               Children & Family Movies
7740 Crime TV Shows, International TV Shows, TV Dramas
                                            Description
                                                            Date N
year
     Mixing old footage with interviews, this is th... 2018-05-16
19
2018.0
     When nerdy high schooler Dani finally attracts... 2017-09-08
33
2017.0
      A stylist, a hair designer and a makeup artist... 2019-11-01
58
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
. . .
7670 Footage of the most dramatic moments from Worl... 2017-08-01
2017.0
7671 From Moscow to Mexico City, three BBC journali... 2019-02-01
2019.0
7688 Set against the 2015 Rugby World Cup, this doc... 2020-03-18
2020.0
7725 A gifted young ballet dancer struggles to find... 2017-12-31
7740 An incendiary hate crime stirs civil unrest, f... 2020-09-03
2020.0
[485 rows x 13 columns]
#08 - In How Many Movies/Shows, Tom Cruise Was cast ?
data.head(2)
  Show_Id Category
                   Title
                                    Director \
       s1 TV Show
                       3%
            Movie
                    07:19 Jorge Michel Grau
1
       s2
                                                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
                             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
O 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
#Filtering
#data.cast
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)
Cell In[88], line 2
      1 #str.contains()
----> 2 data[data['Cast'].str.contains('Tom Cruise')]
File C:\Python312\Lib\site-packages\pandas\core\frame.py:3883, in
DataFrame.__getitem__(self, key)
            return self.where(key)
   3880
   3882 # Do we have a (boolean) 1d indexer?
-> 3883 if com.is bool indexer(key):
            return self. getitem bool array(key)
   3886 # We are left with two options: a single key, and a collection
   3887 # We interpret tuples as collections only for non-MultiIndex
File C:\Python312\Lib\site-packages\pandas\core\common.py:133, in
is bool indexer(key)
            na msg = "Cannot mask with non-boolean array containing NA
    129
/ NaN values"
    130
            if lib.is bool array(key array, skipna=True):
                # Don't raise on e.g. ["A", "B", np.nan], see
    131
    132
test_loc_getitem_list_of_labels_categoricalindex_with_na
                raise ValueError(na msq)
--> 133
            return False
    134
```

```
135 return True
ValueError: Cannot mask with non-boolean array containing NA / NaN
values
#creating a new data- frame
data new = data.dropna()
                         #it drops line rows that contains all
or missing Values
data new.head(2)
 Show Id Category
                                  Director \
                  Title
            Movie 07:19 Jorge Michel Grau
      s2
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 R 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
2018.0
#str.contains()
data new[data new['Cast'].str.contains('Tom Cruise')]
                                          Director \
    Show Id Category
                        Title
3860
      s3861
               Movie
                     Magnolia
                               Paul Thomas Anderson
5071
      s5071
               Movie Rain Man
                                   Barry Levinson
                                                Cast
                                                           Country
     Jeremy Blackman, Tom Cruise, Melinda Dillon, A... United States
3860
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 R 134 min Classic Movies, Dramas
```

```
Description
                                                           Date N
year
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
2019.0
#Q9 - What are the different Rating defined by Netflix?
#nunique()
data.head(2)
  Show Id Category Title
                                   Director \
0
      s1 TV Show
                      3%
                                        NaN
      s2
            Movie 07:19 Jorge Michel Grau
1
                                               Cast Country \
  João Miquel, 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
                                        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['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
      s2
            Movie 07:19 Jorge Michel Grau
```

```
Cast Country \
  João Miguel, Bianca Comparato, Michel Gomes, R...
0
                                                       Brazil
1 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
                                         Description
                                                          Date 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['Rating']=='TV-14')]
                                          Title
     Show Id Category
                                                            Director \
8
          s9
                Movie
                                            706
                                                       Shravan Kumar
15
         s16
                Movie
                                         0ct-01
                                                      Kunle Afolayan
                Movie
                                         15 - Aug
                                                 Swapnaneel Jayakar
18
         s19
                           Kuch Bheege Alfaaz
20
         s21
                Movie
                                                              0nir
                                   Goli Soda 2
21
         s22
                Movie
                                                      Vijay Milton
                                                      Avadhoot Gupte
7765
       s7764
                Movie
                                          Zenda
7766
       s7765
                Movie
                                           Zero
                                                          Aanand Rai
                                                      Anjum Shahzad
7770
       s7769
                Movie Zindagi Kitni Haseen Hay
7771
       s7770
                       Zindagi Na Milegi Dobara
                                                         Zoya Akhtar
                Movie
7785
       s7784
                Movie
                                         Zubaan
                                                         Mozez Singh
                                                    Cast
                                                           Country \
8
      Divya Dutta, Atul Kulkarni, Mohan Agashe, Anup...
                                                             India
15
      Sadiq Daba, David Bailie, Kayode Olaiya, Kehin...
                                                           Nigeria
18
      Rahul Pethe, Mrunmayee Deshpande, Adinath Koth...
                                                             India
20
      Geetanjali Thapa, Zain Khan Durrani, Shray Rai...
                                                             India
21
      Samuthirakani, Bharath Seeni, Vinoth, Esakki B...
                                                             India
      Santosh Juvekar, Siddharth Chandekar, Sachit P...
7765
                                                             India
7766
      Shah Rukh Khan, Anushka Sharma, Katrina Kaif, ...
                                                             India
      Feroze Khan, Sajal Ali, Jibrayl Ahmed Rajput, ...
7770
                                                          Pakistan
7771
      Hrithik Roshan, Abhay Deol, Farhan Akhtar, Kat...
                                                             India
7785
      Vicky Kaushal, Sarah-Jane Dias, Raaghav Chanan...
                                                             India
            Release Date Rating Duration \
8
           April 1, 2019 TV-14 118 min
       September 1, 2019 TV-14 149 min
15
```

```
18
          March 29, 2019
                          TV - 14
                                 124 min
                          TV-14
20
       September 1, 2018
                                 110 min
21
      September 15, 2018
                          TV - 14
                                 128 min
7765
       February 15, 2018
                          TV - 14
                                 120 min
            May 21, 2019
                          TV-14
7766
                                 159 min
7770
         October 1, 2018
                          TV - 14
                                 126 min
7771
       December 15, 2019
                          TV - 14
                                 154 min
           March 2, 2019 TV-14
7785
                                 111 min
                                                   Type \
8
                   Horror Movies, International Movies
15
               Dramas, International Movies, Thrillers
18
                  Comedies, Dramas, Independent Movies
20
      Dramas, Independent Movies, International Movies
21
      Action & Adventure, Dramas, International Movies
7765
                          Dramas, International Movies
7766
                Comedies, Dramas, International Movies
         Dramas, International Movies, Romantic Movies
7770
                Comedies, Dramas, International Movies
7771
        Dramas, International Movies, Music & Musicals
7785
                                             Description
                                                             Date N
year
      When a doctor goes missing, his psychiatrist w... 2019-04-01
2019.0
15
      Against the backdrop of Nigeria's looming inde... 2019-09-01
2019.0
      On India's Independence Day, a zany mishap in ... 2019-03-29
18
2019.0
      After accidentally connecting over the Interne... 2018-09-01
20
2018.0
      A taxi driver, a gangster and an athlete strug... 2018-09-15
2018.0
. . .
7765 A change in the leadership of a political part... 2018-02-15
2018.0
     Through his relationships with two wildly diff... 2019-05-21
7766
2019.0
7770 Two young parents struggle to keep their marri... 2018-10-01
2018.0
7771 Three friends on an adventurous road trip/bach... 2019-12-15
2019.0
7785 A scrappy but poor boy worms his way into a ty... 2019-03-02
2019.0
[1272 rows x 13 columns]
```

```
data[(data['Category']=='Movie') & (data['Rating']=='TV-14')].shape
#shape will show the count of movies & tv-14
(1272, 13)
#now by Region 'Canada'
data[(data['Category']=='Movie') & (data['Rating']=='TV-14') &
(data['Country']=='Canada')]
     Show Id Category
                                                               Title \
30
                                                    #cats the mewvie
         s31
                Movie
34
         s35
                Movie
                                                               #Roxv
608
        s609
                Movie
                                                      At First Light
1506
       s1507
                Movie
                                         Counterfeiting in Suburbia
3713
       s3714
                Movie
                                                   Long Time Running
3956
       s3957
                Movie
                       Martin Matte: La vie, la mort...eh la la..!
5336
                                         Sadie's Last Days on Earth
       s5336
                Movie
5393
       s5393
                Movie
                                                          Sardaar ji
                                        The Accountant of Auschwitz
6062
       s6062
                Movie
7025
       s7024
                Movie
                                                The Wrong Babysitter
7041
       s7040
                Movie
                                     There's Something in the Water
                                     Director \
30
                             Michael Margolis
34
                              Michael Kennedy
608
                                  Jason Stone
1506
                                Jason Bourque
3713
      Jennifer Baichwal, Nicholas de Pencier
3956
                          Jean-François Blais
5336
                               Michael Seater
5393
                                 Rohit Jugrai
                             Matthew Shoychet
6062
7025
                              George Mendeluk
7041
                      Ellen Page, Ian Daniel
                                                     Cast Country \
30
                                                      NaN
                                                           Canada
      Jake Short, Sarah Fisher, Booboo Stewart, Dann...
34
                                                           Canada
      Stefanie Scott, Theodore Pellerin, Percy Hynes...
608
                                                           Canada
1506
      Sarah Butler, Larissa Albuquerque, Kayla Walla...
                                                           Canada
3713
      Gord Downie, Paul Langlois, Gord Sinclair, Rob...
                                                           Canada
3956
                                            Martin Matte
                                                           Canada
5336
      Morgan Taylor Campbell, Clark Backo, Ricardo H...
                                                           Canada
5393
      Diljit Dosanjh, Neeru Bajwa, Mandy Takhar, Jas...
                                                           Canada
6062
                                                           Canada
                                                      NaN
7025
      Daphne Zuniga, Seann Gallagher, Lisa Marie Car...
                                                           Canada
7041
                                              Ellen Page
                                                           Canada
           Release Date Rating Duration \
30
       February 5, 2020 TV-14
                                  90 min
```

```
34
         April 10, 2019
                         TV-14
                                 105 min
608
      December 27, 2018
                         TV-14
                                  91 min
1506
           July 1, 2018
                         TV-14
                                  88 min
      November 12, 2017
3713
                         TV-14
                                  96 min
3956
       October 14, 2019
                         TV - 14
                                  62 min
        August 22, 2017
5336
                         TV-14
                                  94 min
       December 1, 2017
5393
                         TV-14
                                 140 min
           July 1, 2019
                         TV-14
6062
                                  78 min
          June 18, 2019
                                  89 min
7025
                         TV - 14
7041
         March 27, 2020
                         TV - 14
                                 72 min
                                                    Type \
30
                    Documentaries, International Movies
34
                               Comedies, Romantic Movies
608
                                Dramas, Sci-Fi & Fantasy
1506
                                       Dramas, Thrillers
      Documentaries, International Movies, Music & M...
3713
3956
                                         Stand-Up Comedy
5336
                             Comedies, Sci-Fi & Fantasy
5393
       Comedies, International Movies, Music & Musicals
6062
                    Documentaries, International Movies
7025
                                               Thrillers
7041
                    Documentaries, International Movies
                                             Description
                                                             Date N
year
      This pawesome documentary explores how our fel... 2020-02-05
30
2020.0
      A teenage hacker with a huge nose helps a cool... 2019-04-10
2019.0
      After mysterious lights imbue her with extraor... 2018-12-27
608
2018.0
1506
     Two teenagers print counterfeit money in their... 2018-07-01
2018.0
3713
     This documentary follows the 2016 tour of belo... 2017-11-12
2017.0
      Quebecois comedy star Martin Matte serves up e... 2019-10-14
3956
2019.0
5336 High schooler Sadie Mitchell believes the worl... 2017-08-22
2017.0
     When a palatial wedding venue turns out to be ... 2017-12-01
5393
2017.0
6062
     Decades after WWII, a former SS officer stands... 2019-07-01
2019.0
7025
     A widow searches for her missing teenage daugh... 2019-06-18
2019.0
7041 This documentary spotlights the struggle of mi... 2020-03-27
2020.0
```

```
#find the count of canada movies with rating TV- 14 ?
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)
                                   Director \
 Show Id Category Title
      s1 TV Show
                      3%
                                       NaN
            Movie 07:19 Jorge Michel Grau
1
      s2
                                              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 &...
1
                       Dramas, International Movies
                                       Description
                                                       Date N
vear
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['Rating']=='R')]
    Show Id Category
                                                   Title
Director \
4497 s4498 TV Show
                                                   Nobel
NaN
6437
      s6436 TV Show The Hateful Eight: Extended Version Quentin
Tarantino
                                                 Cast Country \
4497 Aksel Hennie, Tuva Novotny, Anders Danielsen L... Norway
6437 Samuel L. Jackson, Kurt Russell, Jennifer Jaso... NaN
          Release Date Rating Duration \
4497
     December 10, 2016
                            R 1 Season
        April 25, 2019
6437
                            R 1 Season
                                               Type \
4497
     International TV Shows, TV Dramas, TV Thrillers
```

```
6437
                                                               TV Shows
                                                             Description
                                                                                    Date N
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
2019.0
#now adding third condition after 2018
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...
           Release Date Rating
                                        Duration
                                                     Type \
6437 April 25, 2019 R 1 Season TV Shows
                                                             Description
                                                                                    Date N
vear
6437 Trapped at a stagecoach stop as a storm rages ... 2019-04-25
2019.0
#010- What is maximum duration of a Movie/show on Netflix?
data['Duration'].unique()
#data.Duration.unique()
                                           #both will work
array(['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',
          '131 min', '24 min', '112 min', '74 min', '63 min', '38 min',
          '25 min', '174 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', '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 type of Duration column
data.Duration.dtypes
dtype('0')
#str.split()
data.head(2)
                                                      Director \
   Show Id Category
                             Title
          s1 TV Show
                                  3%
                                                             NaN
          s2
                   Movie 07:19 Jorge Michel Grau
                                                                        Cast Country \
   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 4 Seasons
1 December 23, 2016 TV-MA
                               93 min
                                               Type \
0 International TV Shows, TV Dramas, TV Sci-Fi &...
                       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
#in this we we will create two new column through str.splits
data[['minutes', 'units']] = data['Duration'].str.split(' ',expand=
True)
data.head(2)
 Show Id Category Title
                                   Director \
      s1 TV Show
                      3%
                                        NaN
      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 \
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 &...
                       Dramas, International Movies
                                        Description
                                                       Date N
vear \
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
 minutes
            units
0
       4
          Seasons
      93
              min
#What is maximum duration of a Movie/show on Netflix?
\#max()
data['minutes'].max() #it will show maximum time duration of the
given data
```

```
'99'
data['minutes'].min() #it will show minimum time duration of the
given data
'1'
data['minutes'].mean()
TypeError
                                          Traceback (most recent call
last)
Cell In[125], line 1
----> 1 data['minutes'].mean()
File C:\Python312\Lib\site-packages\pandas\core\series.py:6221, in
Series.mean(self, axis, skipna, numeric only, **kwargs)
   6213 @doc(make_doc("mean", ndim=1))
   6214 def mean(
   6215
            self,
   (\ldots)
   6219
            **kwarqs,
   6220 ):
-> 6221
            return NDFrame.mean(self, axis, skipna, numeric only,
**kwargs)
File C:\Python312\Lib\site-packages\pandas\core\generic.py:11984, in
NDFrame.mean(self, axis, skipna, numeric_only, **kwargs)
  11977 def mean(
  11978
            self.
            axis: Axis | None = 0,
  11979
   (\ldots)
          **kwargs,
  11982
  11983 ) -> Series | float:
          return self. stat function(
> 11984
                "mean", nanops.nanmean, axis, skipna, numeric only,
  11985
**kwaras
  11986
File C:\Python312\Lib\site-packages\pandas\core\generic.py:11941, in
NDFrame. stat function(self, name, func, axis, skipna, numeric only,
**kwaras)
  11937 nv.validate func(name, (), kwarqs)
  11939 validate bool kwarg(skipna, "skipna", none allowed=False)
> 11941 return self. reduce(
            func, name=name, axis=axis, skipna=skipna,
numeric only=numeric only
  11943 )
File C:\Python312\Lib\site-packages\pandas\core\series.py:6129, in
```

```
Series._reduce(self, op, name, axis, skipna, numeric only,
filter_type, **kwds)
   6124
           # GH#47500 - change to TypeError to match other methods
   6125
           raise TypeError(
   6126
                f"Series.{name} does not allow
{kwd name}={numeric only} "
   6127
                "with non-numeric dtypes."
   6128
-> 6129 return op(delegate, skipna=skipna, **kwds)
File C:\Python312\Lib\site-packages\pandas\core\nanops.py:147, in
bottleneck switch. call .<locals>.f(values, axis, skipna, **kwds)
    145
                result = alt(values, axis=axis, skipna=skipna, **kwds)
    146 else:
           result = alt(values, axis=axis, skipna=skipna, **kwds)
    149 return result
File C:\Python312\Lib\site-packages\pandas\core\nanops.py:404, in
datetimelike compat.<locals>.new func(values, axis, skipna, mask,
**kwargs)
   401 if datetimelike and mask is None:
           mask = isna(values)
--> 404 result = func(values, axis=axis, skipna=skipna, mask=mask,
**kwarqs)
    406 if datetimelike:
    407
            result = wrap results(result, orig values.dtype,
fill value=iNaT)
File C:\Python312\Lib\site-packages\pandas\core\nanops.py:720, in
nanmean(values, axis, skipna, mask)
    718 count = get counts(values.shape, mask, axis,
dtype=dtype count)
    719 the sum = values.sum(axis, dtype=dtype sum)
--> 720 the sum = ensure numeric(the sum)
   722 if axis is not None and getattr(the sum, "ndim", False):
   723
           count = cast(np.ndarray, count)
File C:\Python312\Lib\site-packages\pandas\core\nanops.py:1693, in
ensure numeric(x)
   1690 elif not (is float(x) or is integer(x) or is complex(x)):
            if isinstance(x, str):
   1691
   1692
                # GH#44008, GH#36703 avoid casting e.g. strings to
numeric
                raise TypeError(f"Could not convert string '{x}' to
-> 1693
numeric")
   1694
            try:
   1695
            x = float(x)
TypeError: Could not convert string
'493788012319511911814310311899114911441248711012811710028419995190102
```

```
1049910556125119181971069910793189105879710919311094475101189901904393
1013711389841021021141309094971439111079511993111101931401358270104111
7121921241645393918393114116293812184105861201069296979910012696759412
9801031961771137148111121123121952899104122104941176107909410187928593
2295861371016812111111029142168102928622222115993868010992921899619587
9311131112011719798108125917690821119211109410091194441081308312331068
7130100968995261561983010819212899851228457210710210391104911101111211
7799122150117126148122951331641151541331101127146136100908813124410112
3211908987124881331101121298787112059174969159105631119699928690163111
0623893872510594107891921211113221746097122911218497127153158151115012
1051091118111621045494838510660102885110041311096910611560641101541471
1218763188142908979101121021228518351924084104911091009090949990951921
1031031034545590106275982112921031049217212596144128111212210131531531
1010999511916395584196102902106721127116128615780807575799312910887711
9791838511613011111397110210616013717117110495901281110312130481391053
1041621571510613088114611641041279231100721111181106556459122906013428
9111618687130107280796212938187211541981139189586311109812510693139901
2331131688310194110011713381911110410611212211102883991186491949095971
1019737388150979192111111101112738912958806519912613512716516616613815
9160159136112101143232127983619586118411119210297902111914799313087118
38310519111711713111178757814910310884949514112213411107111111261229588
1101746432747483172797280757572109132111099144911051661031281151188777
9819411125291021211161108811152895211137351111092411928173751998911211
0092100198979786105110096111159976411388106127901749111859010290871002
5941059911682120779210762577011987744971110041104562108839114911211111
1029810715912011115111611211713074150631381481141239710510710612879338
8126107410390681009510886816567786928346156813971321106641271131107124
3811588971163113211713710079311162144123795312113583114881169121838090
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1120111510317288198115221302216052611013109921311201598911126154961210
5891581104288194889911144190' to numeric
#Q11- Which individual country has the Highest No. of TV Shows ?
data.head(2)
  Show Id Category
                                    Director \
                   Title
0
          TV Show
                       3%
                                         NaN
       s1
                    07:19 Jorge Michel Grau
1
       s2
             Movie
                                                Cast Country \
   João Miguel, Bianca Comparato, Michel Gomes, R...
  Demián Bichir, Héctor Bonilla, Oscar Serrano, ...
                                                      Mexico
        Release Date Rating
                              Duration \
0
     August 14, 2020
                     TV - MA
                             4 Seasons
  December 23, 2016 TV-MA
                                93 min
                                                Type \
0
   International TV Shows, TV Dramas, TV Sci-Fi &...
1
                        Dramas, International Movies
                                         Description
                                                         Date N
vear
```

```
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
 minutes
            units
0
         Seasons
       4
      93
1
              min
data tvshow=data[data['Category']=='TV Show'] #creating new
Columns data tvshow
data_tvshow.head(2)
 Show Id Category Title
                           Director \
0
      s1 TV Show
                     3%
                                NaN
5
      s6 TV Show 46 Serdar Akar
                                              Cast Country
Release Date \
O 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 &...
5 TV-MA 1 Season International TV Shows, TV Dramas, TV Mysteries
                                       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
2017.0
 minutes
            units
       4 Seasons
5 1 Season
data tvshow['Country'].value counts() #tv shows count of
different countries
Country
United States
                                                          705
United Kingdom
                                                          204
Japan
                                                          157
South Korea
                                                          147
```

```
India
                                                              71
Canada, United States, United Kingdom, France, Luxembourg
                                                               1
United States, Italy
                                                               1
Chile, Italy
                                                               1
Canada, United Kingdom
                                                               1
United States, France, South Korea, Indonesia
                                                               1
Name: count, Length: 183, dtype: int64
data tvshow['Country'].value counts().head(1)
Country
United States 705
Name: count, dtype: int64
#Q.12. How can we sort the dataset by year?
data.head(2)
  Show Id Category
                   Title
                                    Director \
0
       s1 TV Show
                       3%
                                         NaN
            Movie 07:19 Jorge Michel Grau
1
       s2
                                                Cast Country \
  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
                             4 Seasons
1 December 23, 2016 TV-MA
                                93 min
                                                Type \
  International TV Shows, TV Dramas, TV Sci-Fi &...
0
                        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
             units
  minutes
           Seasons
       4
1
       93
               min
#shorting of data by years
data.sort_values(by = 'year')
     Show_Id Category
                                             Title
Director \
7115
       s7114
                              To and From New York Sorin Dan
                Movie
```

Mihalo		- 1. 61			
1765 NaN	s1766	TV Show	Dinner for Five		
3248	s3249	Movie	Just Another Love Story	0le	
Borned			_		
5766	s5766	Movie	Splatter	Joe	
Dante 3840	s3841	Movie	Mad Ron's Prevues from Hell	Jim	
Monaco		TIOVIC	rida Non 3 Frevaes From Hecc	JIII	
 6052	c60E1	TV Char	The Tuders		
6952 NaN	s6951	TV Show	The Tudors		
6998	s6997	TV Show	The West Wing		
NaN			_		
7448	s7447	TV Show	Vroomiz		
NaN 7524	s7523	TV Show	Weird Wonders of the World		
NaN	37323	IV SHOW	WCITU WONGETS OF the WOTEG		
7655	s7654	TV Show	Women Behind Bars		
NaN					
5766 3840 6952 6998 7448 7524 7655	3840 Nick Pawlow, Jordu Schell, Jay Kushwara, Micha 6952 Jonathan Rhys Meyers, Henry Cavill, James Frai 6998 Martin Sheen, Rob Lowe, Allison Janney, John S 7448 Joon-seok Song, Jeong-hwa Yang, Sang-hyun Um, 7524 Chris Packham				
Releas	se_Date	\	country		
7115			United States	January 1,	
2008 1765			United States	February 4,	
2008			onitied States	rebruary 4,	
3248			Denmark	May 5,	
2009			Haitad Chalas	November 10	
5766 2009			United States	November 18,	
3840			United States	November 1,	
2010				,	

6952 Ireland, Canada, United States, United Kingdom January 8, 2018 6998 United States December 25, 2015 7448 South Korea August 1, 2017 7524 United Kingdom March 31,						
6998 United States December 25, 2015 South Korea August 1, 2017						
2015 7448 South Korea August 1, 2017						
2017						
7524 United Kingdom March 31,						
2017						
7655 United States November 1, 2016						
Rating Duration						
Type \ 7115 TV-MA 81 min Dramas, Independent Movies,						
Thrillers						
1765 TV-MA 1 Season Stand-Up Comedy & Talk Shows						
3248 TV-MA 104 min Dramas, International						
Movies						
5766 TV-MA 29 min Horror Movies						
3840 NR 84 min Cult Movies, Horror						
Movies						
6952 TV-MA 4 Seasons TV						
Dramas TV 14 7 Seesens						
6998 TV-14 7 Seasons TV Dramas						
7448 TV-Y 3 Seasons Kids' TV, Korean TV						
Shows 7524 TV-PG 2 Seasons British TV Shows, Docuseries, Science & Nature						
TV						
7655 TV-14 3 Seasons Crime TV Shows,						
Docuseries						
Description Date_N						
year \ 7115 While covering a story in New York City, a Sea 2008-01-01						
2008.0						
1765 In each episode, four celebrities join host Jo 2008-02-04						
2008.0 3248 When he causes a car accident that leaves a yo 2009-05-05						
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						

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6952 All the splendor and scandal of England's 16th...
                                                                NaT
NaN
6998 This powerful political epic chronicles the tr...
                                                                NaT
NaN
7448 For these half-car, half-animal friends, each ...
                                                                NaT
NaN
7524 From animal oddities and bizarre science to me...
                                                                NaT
NaN
7655 This reality series recounts true stories of w...
                                                               NaT
NaN
     minutes
                units
7115
          81
                  min
1765
          1
               Season
3248
         104
                  min
5766
          29
                  min
3840
          84
                  min
6952
           4
              Seasons
           7
6998
              Seasons
7448
           3
              Seasons
           2
7524
              Seasons
           3 Seasons
7655
[7787 rows x 15 columns]
#data sort in descending sport
data.sort values(by='year',ascending= False).head(10)
     Show Id Category
Title \
       s5564
5564
                Movie
                                                         Sherlock
Holmes
5919
     s5919
                Movie
                                                               Surf's
Uр
980
        s981 TV Show
                                                            Bling
Empire
                Movie Chris Rock Total Blackout: The Tamborine
1355
      s1356
Exten...
5955 s5955
                Movie
                                                        Taare Zameen
Par
        s367
                Movie
                                                               Αl
366
acecho
560
        s561
                Movie
Apaharan
       s5922 TV Show
                                                         Surviving
5922
Death
4269
       s4270
                Movie
Mud
```

```
1002
       s1003
                Movie
                                                              Blue
Streak
                     Director \
5564
                  Guy Ritchie
5919 Ash Brannon, Chris Buck
980
                   Chris Rock
1355
5955
                   Aamir Khan
366
          Francisco D'Eufemia
560
                  Prakash Jha
5922
                          NaN
4269
                 Jeff Nichols
1002
                 Les Mayfield
                                                    Cast \
5564
      Robert Downey Jr., Jude Law, Rachel McAdams, M...
      Shia LaBeouf, Jeff Bridges, Zooey Deschanel, J...
5919
980
1355
                                              Chris Rock
      Aamir Khan, Darsheel Safary, Tanay Chheda, Tis...
5955
      Rodrigo de la Serna, Belen Blanco, Walter Jako...
366
560
      Ajay Devgn, Nana Patekar, Bipasha Basu, Ayub K...
5922
     Matthew McConaughey, Reese Witherspoon, Tye Sh...
4269
1002
     Martin Lawrence, Luke Wilson, Peter Greene, Da...
                                                 Country
Release Date \
     United States, Germany, United Kingdom, Australia
                                                           January 1,
2021
5919
                                           United States
                                                           January 1,
2021
980
                                                     NaN
                                                          January 15,
2021
1355
                                                     NaN
                                                          January 12,
2021
5955
                                                   India
                                                          January 10,
2021
366
                                                     NaN
                                                          January 12,
2021
560
                                                   India
                                                           January 8,
2021
                                           United States
5922
                                                           January 6,
2021
4269
                                           United States
                                                           January 1,
2021
1002
                                  Germany, United States
                                                           January 1,
2021
```

Rating Duration Type \						
5564 PG-13 128 min	Action & Adventure,					
Comedies 5919 PG 86 min	Children & Family Movies, Comedies, Sports					
Movies 980 TV-MA 1 Season	Reality					
TV 1355 TV-MA 98 min	Stand-Up					
Comedy 5955 PG 162 min	Dramas, International					
Movies	· · · · ·					
366 TV-MA 81 min Thrillers	International Movies,					
560 TV-14 161 min Movies	Dramas, International					
5922 TV-MA 1 Season TV	Docuseries, Reality					
4269 PG-13 131 min	Dramas, Independent					
Movies 1002 PG-13 94 min	Action & Adventure,					
Comedies	Action & Adventure,					
	Description Date N					
year \						
5564 The game is afoot for an eccentric detective w 2021-01-01 2021.0 5919 This Oscar-nominated animated comedy goes behi 2021-01-01						
2021.0 1355 In this extended cut of his 2018 special, Chri 2021-01-12						
2021.0						
5955 When daydreamer Ishaan is sent to boarding sch 2021-01-10 2021.0						
366 Looking for a fresh start, a park ranger gets 2021-01-12 2021.0						
Raised under the condescending eye of his acti 2021-01-08						
2021.0 5922 What happens after we die? This docuseries exp 2021-01-06						
2021.0 4269 Two Mississippi teens meet peculiar drifter Mu 2021-01-01						
2021.0 1002 A jewel thief re	eturns to his hiding place afte 2021-01-01					
2021.0	cturns to his highly place aftern 2021-01-01					
minutes units						
5564 128 min						
5919 86 min						

```
980
             Season
          1
1355
         98
                min
5955
         162
                min
366
         81
                min
560
         161
                min
5922
          1 Season
4269
         131
                min
1002
         94
                min
#013 - 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 \
      s1 TV Show
                      3%
                                        NaN
            Movie 07:19 Jorge Michel Grau
      s2
                                               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
                            4 Seasons
1 December 23, 2016 TV-MA
                               93 min
                                               Type \
O International TV Shows, TV Dramas, TV Sci-Fi &...
                       Dramas, International Movies
1
                                        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
2016.0
  minutes
            units
0
       4 Seasons
       93
              min
data[(data['Category']=='Movie') & (data['Type']=='Dramas')].head(2)
#first condition
  Show Id Category Title Director \
4
            Movie
                         Robert Luketic
       s5
                     21
7
       s8
            Movie
                    187
                         Kevin Reynolds
                                               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
                                   Dramas
7 November 1, 2019 R 119 min Dramas
                                       Description
                                                      Date N
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 units
     123
           min
     119
7
           min
data[(data['Category']=='TV Show') & (data['Type']=="Kids'
TV")].head(2) #second condition
   Show Id Category
                           Title
                                     Director \
      s112 TV Show
111
                         44 Cats
                                          NaN
276 s277 TV Show Abby Hatcher Kyran Kelly
                                               Cast
Country \
111 Sarah Natochenny, Suzy Myers, Simona Berman, E...
276 Macy Drouin, Wyatt White, Paul Sun-Hyung Lee, ... United States,
Canada
       Release Date Rating
                            Duration
                                          Type \
    October 1, 2020 TV-Y7
                           2 Seasons
                                      Kids' TV
111
       July 1, 2020 TV-Y 1 Season
                                      Kids' TV
276
                                         Description
                                                        Date N
year \
111 Paw-esome tales abound when singing furry frie... 2020-10-01
276 A big-hearted girl helps her Fuzzly friends wh... 2020-07-01
2020.0
   minutes
              units
111
         2
            Seasons
276
    1 Season
#combining both the conditions
data[(data['Category']=='Movie') & (data['Type']=='Dramas') |
(data['Category']=='TV Show') & (data['Type']=="Kids' TV")]
```

```
Show Id Category
                                              Title
                                                           Director
4
                Movie
          s5
                                                 21
                                                     Robert Luketic
7
          s8
                Movie
                                                187
                                                     Kevin Reynolds
111
        s112
              TV Show
                                            44 Cats
                                                                 NaN
170
        s171
                Movie
                                      A Family Man
                                                      Mark Williams
232
        s233
                Movie
                       A Stoning in Fulham County
                                                      Larry Elikann
. . .
                                     World of Winx
7668
       s7667
              TV Show
                                                     Iginio Straffi
              TV Show
7717
       s7716
                                               Yoko
                                                                 NaN
7719
       s7718
              TV Show
                                                MOY
                                                                 NaN
              TV Show
7758
       s7757
                                                 Z4
                                                                 NaN
7761
       s7760
              TV Show
                                          Zak Storm
                                                                 NaN
                                                     Cast
      Jim Sturgess, Kevin Spacey, Kate Bosworth, Aar...
7
      Samuel L. Jackson, John Heard, Kelly Rowan, Cl...
111
      Sarah Natochenny, Suzy Myers, Simona Berman, E...
      Gerard Butler, Gretchen Mol, Alison Brie, Will...
170
232
      Ken Olin, Jill Eikenberry, Maureen Mueller, Gr...
      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
7761
      Michael Johnston, Jessica Gee-George, Christin...
                                              Country
Release_Date \
                                       United States
                                                          January 1,
2020
7
                                       United States
                                                         November 1,
2019
111
                                                Italy
                                                          October 1,
2020
170
                               Canada, United States
                                                        December 15,
2019
232
                                        United States
                                                          October 1,
2011
. . .
7668
                                Italy, United States
                                                            June 16,
2017
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 \
4
      PG-13
               123 min
                          Dramas
7
               119 min
                          Dramas
          R
      TV-Y7
111
             2 Seasons
                        Kids' TV
170
               110 min
         R
                          Dramas
232
      TV-14
                95 min
                          Dramas
. . .
      TV-Y7
                        Kids' TV
7668
             2 Seasons
      TV-Y
                        Kids' TV
7717
             1 Season
7719
      TV-Y7
              1 Season
                        Kids' TV
                        Kids' TV
7758
     TV-PG
            2 Seasons
     TV-Y7 3 Seasons
7761
                        Kids' TV
                                             Description
                                                             Date N
year
      A brilliant group of students become card-coun... 2020-01-01
2020.0
      After one of his high school students attacks ... 2019-11-01
2019.0
111
      Paw-esome tales abound when singing furry frie... 2020-10-01
2020.0
      A ruthless corporate headhunter battles his ri... 2019-12-15
170
2019.0
      After reckless teens kill an Amish child, a pr... 2011-10-01
232
2011.0
. . .
. . .
7668 The reality show "WOW!" engages the Winx in th... 2017-06-16
2017.0
7717 Friends Mai, Oto and Vik's games at the park b... 2018-06-23
2018.0
7719 With the mind of a human being, and the body o... 2018-06-07
2018.0
7758 Fading music biz veteran Zé realizes he has ju... 2019-02-22
2019.0
7761 Teen surfer Zak Storm is mysteriously transpor... 2018-09-13
2018.0
     minutes
                units
4
         123
                  min
7
         119
                  min
111
           2
              Seasons
         110
170
                  min
232
          95
                  min
           2
7668
              Seasons
           1
7717
               Season
7719
           1
               Season
7758
              Seasons
```

7761 3 Seasons

[322 rows x 15 columns]