

Netflix Dataset



- This Netflix Dataset has information about the TV Shows and Movies available on Netflix.
- This dataset is collected from Flixable which is a third-party Netflix search engine, and available on Kaggle website for free.

```
In [ ]: # importing the dataset  
# to import pandas library
```

```
In [3]: import pandas as pd
```

```
In [4]: data = pd.read_csv(r"C:\Users\Shakti Honparkhe\Documents\Naresh IT\Data files\file (1).csv")  
data
```

Out[4]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration
0	s1	TV Show	3%	NaN	João Miguel, Bianca Comparato, Michel Gomes, R...	Brazil	August 14, 2020	TV-MA	4 Seasons
1	s2	Movie	07:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, ...	Mexico	December 23, 2016	TV-MA	93 min
2	s3	Movie	23:59	Gilbert Chan	Tedd Chan, Stella Chung, Henley Hii, Lawrence ...	Singapore	December 20, 2018	R	78 min
3	s4	Movie	9	Shane Acker	Elijah Wood, John C. Reilly, Jennifer Connelly...	United States	November 16, 2017	PG-13	80 min
4	s5	Movie	21	Robert Luketic	Jim Sturgess, Kevin Spacey, Kate Bosworth, Aar...	United States	January 1, 2020	PG-13	123 min
...
7784	s7783	Movie	Zozo	Josef Fares	Imad Creidi, Antoinette Turk, Elias Gergi, Car...	Sweden, Czech Republic, United Kingdom, Denmar...	October 19, 2020	TV-MA	99 min
7785	s7784	Movie	Zubaan	Mozez Singh	Vicky Kaushal, Sarah-Jane Dias, Raaghav Chanan...	India	March 2, 2019	TV-14	111 min
7786	s7785	Movie	Zulu Man in Japan	NaN	Nasty C	NaN	September 25, 2020	TV-MA	44 min
7787	s7786	TV Show	Zumbo's Just Desserts	NaN	Adriano Zumbo, Rachel Khoo	Australia	October 31, 2020	TV-PG	1 Season
7788	s7787	Movie	ZZ TOP: THAT	Sam Dunn	NaN	United Kingdom,	March 1, 2020	TV-MA	90 min

Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration
		LITTLE OL' BAND FROM TEXAS			Canada, United States			

7789 rows × 11 columns

Get some basic information about the dataset

1.head()

- It show top-5 record of the dataset

In [5]: `data.head()`

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration
0	s1	TV Show	3%	NaN	João Miguel, Bianca Comparato, Michel Gomes, R...	Brazil	August 14, 2020	TV- MA	4 Seasons
1	s2	Movie	07:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, ...	Mexico	December 23, 2016	TV- MA	93 min
2	s3	Movie	23:59	Gilbert Chan	Tedd Chan, Stella Chung, Henley Hii, Lawrence ...	Singapore	December 20, 2018	R	78 min
3	s4	Movie	9	Shane Acker	Elijah Wood, John C. Reilly, Jennifer Connelly...	United States	November 16, 2017	PG-13	80 min
4	s5	Movie	21	Robert Luketic	Jim Sturgess, Kevin Spacey, Kate Bosworth, Aar...	United States	January 1, 2020	PG-13	123 min

1.tail()

- to show the bottom 5 records of dataset

```
In [6]: data.tail()
```

Out[6]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration
7784	s7783	Movie	Zozo	Josef Fares	Imad Creidi, Antoinette Turk, Elias Gergi, Car...	Sweden, Czech Republic, United Kingdom, Denmar...	October 19, 2020	TV-MA	99 min
7785	s7784	Movie	Zubaan	Mozez Singh	Vicky Kaushal, Sarah-Jane Dias, Raaghav Chanan...	India	March 2, 2019	TV-14	111 min
7786	s7785	Movie	Zulu Man in Japan	NaN	Nasty C	NaN	September 25, 2020	TV-MA	44 min
7787	s7786	TV Show	Zumbo's Just Desserts	NaN	Adriano Zumbo, Rachel Khoo	Australia	October 31, 2020	TV-PG	1 Season
7788	s7787	Movie	ZZ TOP: THAT LITTLE OL' BAND FROM TEXAS	Sam Dunn	NaN	United Kingdom, Canada, United States	March 1, 2020	TV-MA	90 min

3.shape

- to show the no of rows and columns

```
In [7]: data.shape
```

Out[7]: (7789, 11)

4.size

- to show no of total values(elements) in the dataset

```
In [45]: data.size
```

Out[45]: 85679

5.columns

- to show each column name

```
In [46]: data.columns
```

```
Out[46]: Index(['Show_Id', 'Category', 'Title', 'Director', 'Cast', 'Country',  
               'Release_Date', 'Rating', 'Duration', 'Type', 'Description'],  
               dtype='object')
```

6.dtypes

- to show the data type of column

```
In [47]: data.dtypes
```

```
Out[47]: 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
```

7.info

- to show all the information of dataset at once

```
In [49]: data.info()
```

```
<class 'pandas.core.frame.DataFrame'>  
RangeIndex: 7789 entries, 0 to 7788  
Data columns (total 11 columns):  
 #   Column      Non-Null Count  Dtype     
---  --          --          --  
 0   Show_Id     7789 non-null    object    
 1   Category    7789 non-null    object    
 2   Title       7789 non-null    object    
 3   Director    5401 non-null    object    
 4   Cast        7071 non-null    object    
 5   Country     7282 non-null    object    
 6   Release_Date 7779 non-null    object    
 7   Rating      7782 non-null    object    
 8   Duration    7789 non-null    object    
 9   Type        7789 non-null    object    
 10  Description  7789 non-null    object    
dtypes: object(11)  
memory usage: 669.5+ KB
```

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

duplicate

```
In [51]: data.head()
```

Out[51]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	
0	s1	TV Show	3%	NaN	João Miguel, Bianca Comparato, Michel Gomes, R...	Brazil	August 14, 2020	TV-MA	4 Seasons	Internal TV Sci-Fi
1	s2	Movie	07:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, ...	Mexico	December 23, 2016	TV-MA	93 min	Internal Drama
2	s3	Movie	23:59	Gilbert Chan	Tedd Chan, Stella Chung, Henley Hii, Lawrence ...	Singapore	December 20, 2018	R	78 min	Internal Thriller
3	s4	Movie	9	Shane Acker	Elijah Wood, John C. Reilly, Jennifer Connelly...	United States	November 16, 2017	PG-13	80 min	Action Adventure Indie Movie
4	s5	Movie	21	Robert Luketic	Jim Sturgess, Kevin Spacey, Kate Bosworth, Aaron ...	United States	January 1, 2020	PG-13	123 min	Disaster



In [52]: `data.shape`

Out[52]: `(7789, 11)`

In [54]: `data[data.duplicated()] # To check row wise and detect the duplicate rows`

Out[54]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type
6300	s684	Movie	Backfire	Dave Patten	Black Deniro, Byron "Squally" Vinson, Dominic ...	United States	April 5, 2019	TV-MA	97 min	Indie
6622	s6621	Movie	The Lost Okoroshi	Abba T. Makama	Seun Ajayi, Judith Audu, Tope Tedela, Ifu Enna...	Nigeria	September 4, 2020	TV-MA	94 min	C

In [56]: `data.drop_duplicates(inplace=True) # To remove the duplicate rows`In [57]: `data[data.duplicated()]`Out[57]:

Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description

In [58]: `data.shape`Out[58]: `(7787, 11)`

Task.2. Is there any Null Value present in any column ? Show with Heat-map.

isnull

In [8]: `data.head()`

Out[8]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	
0	s1	TV Show	3%	NaN	João Miguel, Bianca Comparato, Michel Gomes, R...	Brazil	August 14, 2020	TV-MA	4 Seasons	Internal TV Sci-Fi
1	s2	Movie	07:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, ...	Mexico	December 23, 2016	TV-MA	93 min	Internal Drama
2	s3	Movie	23:59	Gilbert Chan	Tedd Chan, Stella Chung, Henley Hii, Lawrence ...	Singapore	December 20, 2018	R	78 min	Internal Thriller
3	s4	Movie	9	Shane Acker	Elijah Wood, John C. Reilly, Jennifer Connely...	United States	November 16, 2017	PG-13	80 min	Action Adventure Indie Movie
4	s5	Movie	21	Robert Luketic	Jim Sturgess, Kevin Spacey, Kate Bosworth, Aar...	United States	January 1, 2020	PG-13	123 min	Disaster

In [61]: `data.isnull() # To show the where null value is present`

Out[61]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Desc
0	False	False	False	True	False	False	False	False	False	False	False
1	False	False	False	False	False	False	False	False	False	False	False
2	False	False	False	False	False	False	False	False	False	False	False
3	False	False	False	False	False	False	False	False	False	False	False
4	False	False	False	False	False	False	False	False	False	False	False
...
7784	False	False	False	False	False	False	False	False	False	False	False
7785	False	False	False	False	False	False	False	False	False	False	False
7786	False	False	False	True	False	True	False	False	False	False	False
7787	False	False	False	True	False	False	False	False	False	False	False
7788	False	False	False	False	True	False	False	False	False	False	False

7787 rows × 11 columns



In [62]:

```
data.isnull().sum() # To show the count of null values in each column
```

Out[62]:

```
Show_Id      0
Category     0
Title        0
Director    2388
Cast         718
Country      507
Release_Date 10
Rating        7
Duration      0
Type          0
Description   0
dtype: int64
```

seaborn library (heat map)

In [13]:

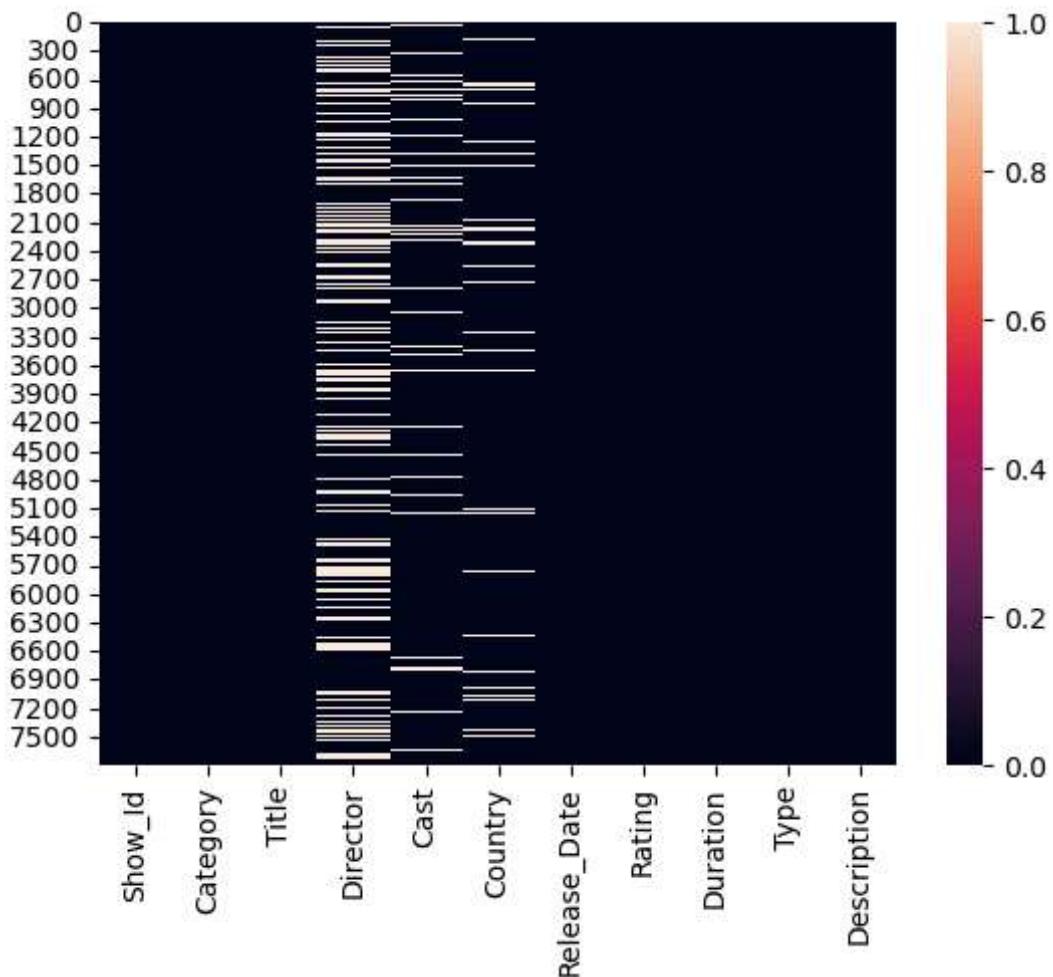
```
import seaborn as sns # to import seaborn Library
```

In [22]:

```
sns.heatmap(data.isnull())
```

Out[22]:

```
<Axes: >
```



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

isin()

```
In [23]: data.head()
```

Out[23]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type
0	s1	TV Show	3%	NaN	João Miguel, Bianca Comparato, Michel Gomes, R...	Brazil	August 14, 2020	TV-MA	4 Seasons	TV Sci-Fi
1	s2	Movie	07:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, ...	Mexico	December 23, 2016	TV-MA	93 min	Internal Dr.
2	s3	Movie	23:59	Gilbert Chan	Tedd Chan, Stella Chung, Henley Hii, Lawrence ...	Singapore	December 20, 2018	R	78 min	Internal M
3	s4	Movie	9	Shane Acker	Elijah Wood, John C. Reilly, Jennifer Connely...	United States	November 16, 2017	PG-13	80 min	Action Adve. Indie Movie
4	s5	Movie	21	Robert Luketic	Jim Sturgess, Kevin Spacey, Kate Bosworth, Aar...	United States	January 1, 2020	PG-13	123 min	Drama

In [24]:

```
data[data['Title'].isin(['House of Cards'])] # To show all records of a particular item in any column
```

Out[24]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type
2832	s2833	TV Show	House of Cards	Robin Wright, David Fincher, Gerald McRaney, J...	Kevin Spacey, Robin Wright, Kate Mara, Corey S...	United States	November 2, 2018	TV-MA	6 Seasons	Drama Thriller

str.contains()

In [25]:

```
data[data['Title'].str.contains('House of Cards')] #To show all records of a particular string
```

Out[25]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type
2832	s2833	TV Show	House of Cards	Robin Wright, David Fincher, Gerald McRaney, J...	Kevin Spacey, Robin Wright, Kate Mara, Corey S...	United States	November 2, 2018	TV-MA	6 Seasons	T Thriller

Q.2. In which year highest number of the TV Shows & Movies were released ? Show with Bar Graph.

dtypes

In [26]: `data.dtypes`

```
Out[26]: 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
```

to_datetime

In [27]: `data['Date_N'] = pd.to_datetime(data['Release_Date'], errors='coerce')`
`data.head()`

Out[27]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	
0	s1	TV Show	3%	NaN	João Miguel, Bianca Comparato, Michel Gomes, R...	Brazil	August 14, 2020	TV-MA	4 Seasons	Internal TV Sci-Fi
1	s2	Movie	07:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, ...	Mexico	December 23, 2016	TV-MA	93 min	Internal Drama
2	s3	Movie	23:59	Gilbert Chan	Tedd Chan, Stella Chung, Henley Hii, Lawrence ...	Singapore	December 20, 2018	R	78 min	Internal Thriller
3	s4	Movie	9	Shane Acker	Elijah Wood, John C. Reilly, Jennifer Connely...	United States	November 16, 2017	PG-13	80 min	Action Adventure Indie Movie
4	s5	Movie	21	Robert Luketic	Jim Sturgess, Kevin Spacey, Kate Bosworth, Aar...	United States	January 1, 2020	PG-13	123 min	Disaster

dt.year.value_counts()

In [29]: `data['Date_N'].dt.year.value_counts() # It count the occurrence of all individual years in data'`

Out[29]:

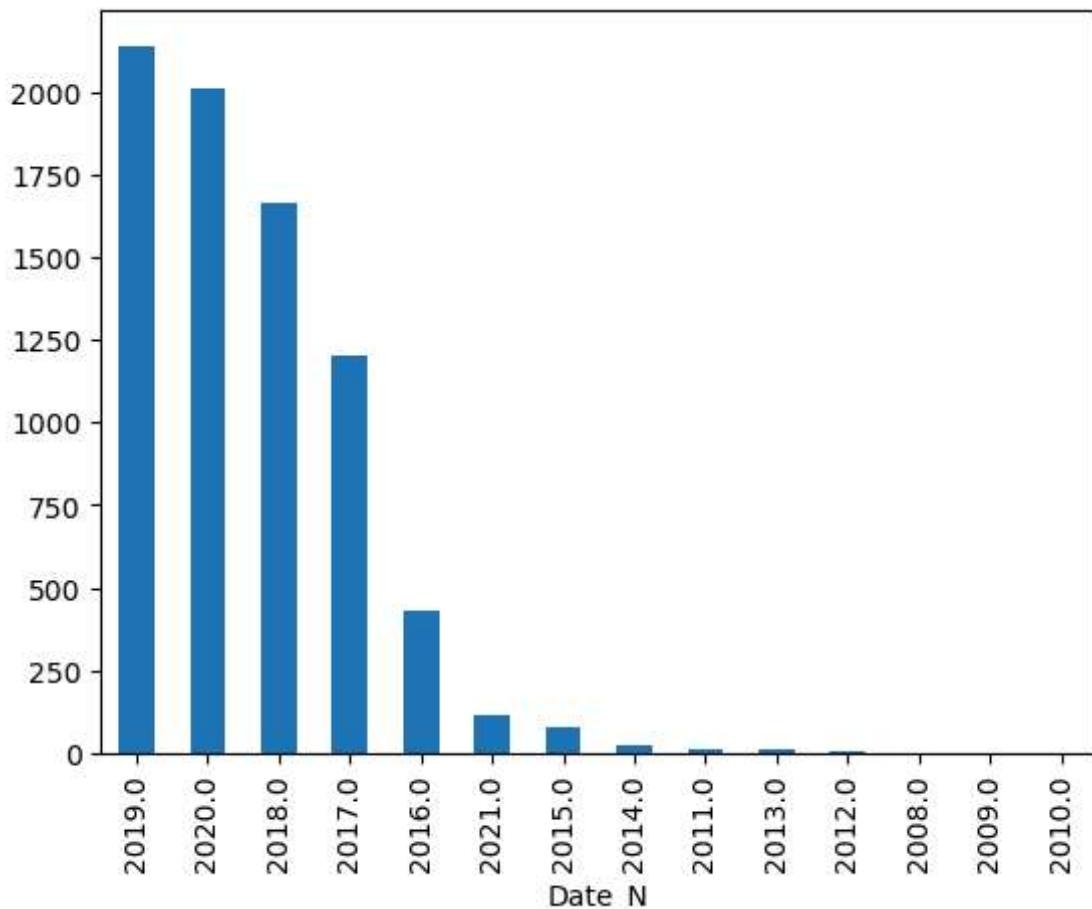
Date_N	count
2019.0	2137
2020.0	2009
2018.0	1661
2017.0	1201
2016.0	432
2021.0	117
2015.0	79
2014.0	24
2011.0	13
2013.0	10
2012.0	3
2008.0	2
2009.0	2
2010.0	1

Name: count, dtype: int64

Bar Graph

In [30]: `data['Date_N'].dt.year.value_counts().plot(kind='bar')`

```
Out[30]: <Axes: xlabel='Date_N'>
```



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

groupby

```
In [31]: data.head(2)
```

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	T
0	s1	TV Show	3%	NaN	João Miguel, Bianca Comparato, Michel Gomes, R...	Brazil	August 14, 2020	TV-MA	4 Seasons	International TV Show TV Drama TV Sci-Fi
1	s2	Movie	07:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, ...	Mexico	December 23, 2016	TV-MA	93 min	International Movie

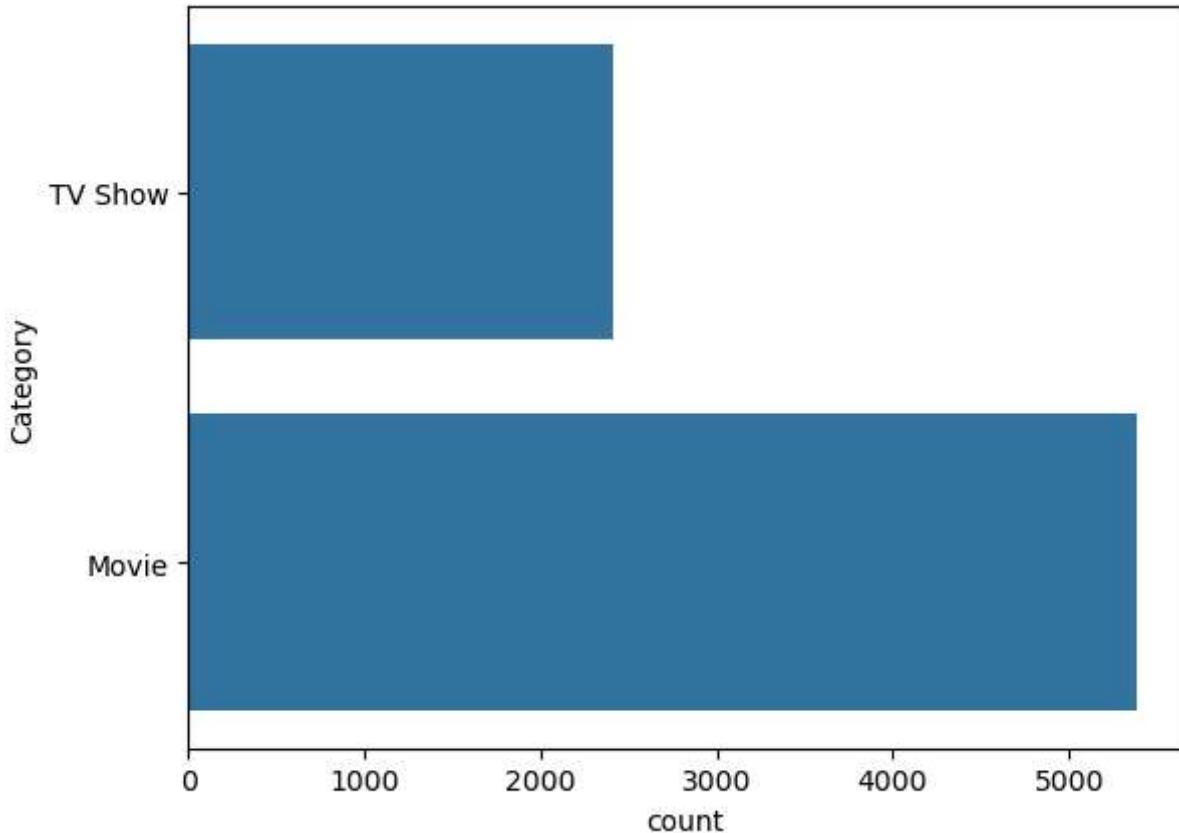
```
In [32]: data.groupby('Category').Category.count() # To group all unique items of a column and show their count
```

```
Out[32]: Category
Movie      5379
TV Show    2410
Name: Category, dtype: int64
```

countplot()

```
In [33]: sns.countplot(data['Category']) # To show the count of all unique values of any column in the
```

```
Out[33]: <Axes: xlabel='count', ylabel='Category'>
```



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

Creating new column

```
In [35]: data.head(2)
```

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	T
0	s1	TV Show	3%	NaN	João Miguel, Bianca Comparato, Michel Gomes, R...	Brazil	August 14, 2020	TV-MA	4 Seasons	International TV Show TV Drama TV Sci-Fi
1	s2	Movie	07:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, ...	Mexico	December 23, 2016	TV-MA	93 min	International Movie

```
In [36]: # data['year']= data['Date_N'].dt.year # to create new year column; it will consider only year  
data['Year'] = data['Date_N'].dt.year
```

```
In [37]: data.head(2)
```

Out[37]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type
0	s1	TV Show	3%	NaN	João Miguel, Bianca Comparato, Michel Gomes, R...	Brazil	August 14, 2020	TV-MA	4 Seasons	International TV Show TV Drama TV Sci-Fi
1	s2	Movie	07:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, ...	Mexico	December 23, 2016	TV-MA	93 min	International Movie Drama

Filtering

In [40]: `data[(data['Category']=='Movie') & (data['Year']==2000)]`

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description

In [41]: `# No movies were released in year 2000
If I want to check how many movies were released in year 2020``data[(data['Category']=='Movie') & (data['Year']==2020)]`

Out[41]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration
4	s5	Movie	21	Robert Luketic	Jim Sturgess, Kevin Spacey, Kate Bosworth, Aar...	United States	January 1, 2020	PG-13	123 min
6	s7	Movie	122	Yasir Al Yasiri	Amina Khalil, Ahmed Dawood, Tarek Lotfy, Ahmed...	Egypt	June 1, 2020	TV-MA	95 min
14	s15	Movie	3022	John Suits	Omar Epps, Kate Walsh, Miranda Cosgrove, Angus...	United States	March 19, 2020	R	91 min
27	s28	Movie	#Alive	Cho Il	Yoo Ah-in, Park Shin-hye	South Korea	September 8, 2020	TV-MA	99 min
28	s29	Movie	#AnneFrank - Parallel Stories	Sabina Fedeli, Anna Migotto	Helen Mirren, Gengher Gatti	Italy	July 1, 2020	TV-14	95 min
...
7762	s7761	Movie	Zaki Chan	Wael Ihsan	Ahmed Helmy, Yasmin Abdulaziz, Hassan Hosny, H...	Egypt	May 19, 2020	TV-PG	109 min
7783	s7782	Movie	Zoom	Peter Hewitt	Tim Allen, Courteney Cox, Chevy Chase, Kate Ma...	United States	January 11, 2020	PG	88 min
7784	s7783	Movie	Zozo	Josef Fares	Imad Creidi, Antoinette Turk, Elias Gergi, Car...	Sweden, Czech Republic, United Kingdom, Denmar...	October 19, 2020	TV-MA	99 min
7786	s7785	Movie	Zulu Man in Japan	NaN	Nasty C	NaN	September 25, 2020	TV-MA	44 min

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration
7788	s7787	Movie	ZZ TOP: THAT LITTLE OL' BAND FROM TEXAS	Sam Dunn	NaN	United Kingdom, Canada, United States	March 1, 2020	TV-MA	90 min

1313 rows × 13 columns

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

Filtering

In [42]: `data.head(2)`

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	T
0	s1	TV Show	3%	NaN	João Miguel, Bianca Comparato, Michel Gomes, R...	Brazil	August 14, 2020	TV-MA	4 Seasons	International TV Show TV Drama TV Sci-Fi
1	s2	Movie	07:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, ...	Mexico	December 23, 2016	TV-MA	93 min	International Movie Drama

In [45]: `data[(data['Category']=='TV Show') & (data['Country']=='India')] ['Title']`

Out[45]:

86	21 Sarfarosh: Saragarhi
132	1897 7 (Seven)
340	Agent Raghav
364	Akbar Birbal
533	Anjaan: Rural Myths
	...
6249	The Creative Indians
6400	The Golden Years with Javed Akhtar
6469	The House That Made Me
7294	Typewriter
7705	Yeh Meri Family
	Name: Title, Length: 71, dtype: object

Q.6. Show Top 10 Directors, who gave the highest number of TV Shows & Movies to Netflix ?

value_counts()

In [46]: `data.head(2)`

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	T
0	s1	TV Show	3%	NaN	João Miguel, Bianca Comparato, Michel Gomes, R...	Brazil	August 14, 2020	TV-MA	4 Seasons	International TV Show TV Drama TV Sci-Fi
1	s2	Movie	07:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, ...	Mexico	December 23, 2016	TV-MA	93 min	International Movie Drama

```
In [49]: data['Director'].value_counts().head(10)
```

```
Out[49]: 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
Robert Rodriguez              8
Name: count, dtype: int64
```

Q.7. Show all the Records, where "Category is Movie and Type is Comedies" or "Country is United Kingdom".

Filtering (and, or operator)

```
In [50]: data.head(2)
```

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	T
0	s1	TV Show	3%	NaN	João Miguel, Bianca Comparato, Michel Gomes, R...	Brazil	August 14, 2020	TV-MA	4 Seasons	International TV Show TV Drama TV Sci-Fi
1	s2	Movie	07:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, ...	Mexico	December 23, 2016	TV-MA	93 min	International Movie Drama

```
In [52]: data[(data['Category']=='Movie') & (data['Type']=='Comedies')]
```

Out[52]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration
33	s34	Movie	#realityhigh	Fernando Lebrija	Nesta Cooper, Kate Walsh, John Michael Higgins...	United States	September 8, 2017	TV-14	99 min
72	s73	Movie	17 Again	Burr Steers	Zac Efron, Leslie Mann, Matthew Perry, Thomas ...	United States	January 1, 2021	PG-13	102 min
84	s85	Movie	21 & Over	Jon Lucas, Scott Moore	Miles Teller, Skylar Astin, Justin Chon, Sarah...	United States	April 16, 2019	R	93 min
148	s149	Movie	A Bad Moms Christmas	Jon Lucas, Scott Moore	Mila Kunis, Kristen Bell, Kathryn Hahn, Susan ...	United States, China	February 14, 2020	R	104 min
174	s175	Movie	A Futile and Stupid Gesture	David Wain	Will Forte, Domhnall Gleeson, Martin Mull, Joe...	United States	January 26, 2018	TV-MA	102 min
...
7341	s7340	Movie	Undercover Brother 2	Leslie Small	Michael Jai White, Vince Swann, Barry Bostwick...	United States	November 5, 2019	R	85 min
7590	s7589	Movie	Where's the Money	Scott Zabielski	Andrew Bachelor, Kat Graham, Mike Epps, Terry ...	United States	January 22, 2018	R	86 min
7623	s7622	Movie	Wild Oats	Andy Tennant	Shirley MacLaine, Jessica Lange, Billy Connoll...	Germany, United States	May 13, 2017	PG-13	86 min
7634	s7633	Movie	Wine Country	Amy Poehler	Amy Poehler,	United States	May 10, 2019	R	104 min

Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration
				Maya Rudolph, Ana Gasteyer, Rache...				
7664	s7663	Movie	Work It	Laura Terruso	Sabrina Carpenter, Jordan Fisher, Liza Koshy, ...	United States	August 7, 2020	TV-14 94 min

97 rows × 13 columns

```
In [53]: data[(data['Category']=='Movie') & (data['Type']=='Comedies') | (data['Country']=='United Kin
```

Out[53]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duratio
19	s20	Movie	'89	NaN	Lee Dixon, Ian Wright, Paul Merson	United Kingdom	May 16, 2018	TV-PG	87 mi
33	s34	Movie	#realityhigh	Fernando Lebrija	Nesta Cooper, Kate Walsh, John Michael Higgins...	United States	September 8, 2017	TV-14	99 mi
58	s59	TV Show	100% Hotter	NaN	Daniel Palmer, Melissa Sophia, Karen Williams,...	United Kingdom	November 1, 2019	TV-14	1 Seaso
72	s73	Movie	17 Again	Burr Steers	Zac Efron, Leslie Mann, Matthew Perry, Thomas ...	United States	January 1, 2021	PG-13	102 mi
82	s83	Movie	2036 Origin Unknown	Hasraf Dulull	Katee Sackhoff, Ray Fearon, Julie Cox, Steven ...	United Kingdom	December 20, 2018	TV-14	95 mi
...
7670	s7669	TV Show	World War II in Colour	NaN	Robert Powell	United Kingdom	August 1, 2017	TV-MA	1 Seaso
7671	s7670	TV Show	World's Busiest Cities	NaN	Anita Rani, Ade Adepitan, Dan Snow	United Kingdom	February 1, 2019	TV-PG	1 Seaso
7688	s7687	Movie	XV: Beyond the Tryline	Pierre Deschamps	NaN	United Kingdom	March 18, 2020	TV-14	91 mi
7725	s7724	Movie	You Can Tutu	James Brown	Lily O'Regan, Jeannettsy Enriquez Borges, Joel...	United Kingdom	December 31, 2017	TV-G	87 mi

Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration
7740	s7739	TV Show	Young Wallander	NaN	Adam Pålsson, Richard Dillane, Leanne Best, El...	United Kingdom	September 3, 2020	TV-MA 1 Seaso

485 rows × 13 columns

Q.8. In how many movies/shows, Tom Cruise was cast ?

In [54]: `data.head(2)`

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type
0	s1	TV Show	3%	NaN	João Miguel, Bianca Comparato, Michel Gomes, R...	Brazil	August 14, 2020	TV-MA	4 Seasons	International TV Show TV Drama TV Sci-Fi
1	s2	Movie	07:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, ...	Mexico	December 23, 2016	TV-MA	93 min	International Movie Drama

In [55]: `data[data['Cast']=='Tom Cruise']`

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description

Creating new Dataframe

In [58]: `data_new = data.dropna() # It drops the rows that contains all or any missing values.`

In [59]: `data_new.head(2)`

Out[59]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Tj
1	s2	Movie	07:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, ...	Mexico	December 23, 2016	TV-MA	93 min	Dram Internatio Mov
2	s3	Movie	23:59	Gilbert Chan	Tedd Chan, Stella Chung, Henley Hii, Lawrence ...	Singapore	December 20, 2018	R	78 min	Hor Mov Internatio Mov

In [61]: `data_new[data_new['Cast'].str.contains('Tom Cruise')]`

Out[61]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	
3860	s3861	Movie	Magnolia	Paul Thomas Anderson	Jeremy Blackman, Tom Cruise, Melinda Dillon, A...	United States	January 1, 2020	R	189 min	Ir
5071	s5071	Movie	Rain Man	Barry Levinson	Dustin Hoffman, Tom Cruise, Valeria Golino, Ge...	United States	July 1, 2019	R	134 min	

Q.9. What are the different Ratings defined by Netflix.

`nunique`

In [62]: `data.head(2)`

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	T
0	s1	TV Show	3%	NaN	João Miguel, Bianca Comparato, Michel Gomes, R...	Brazil	August 14, 2020	TV-MA	4 Seasons	International TV Show TV Drama TV Sci-Fi
1	s2	Movie	07:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, ...	Mexico	December 23, 2016	TV-MA	93 min	International Movie Drama

```
In [64]: data['Rating'].nunique()
```

```
Out[64]: 14
```

unique

```
In [65]: data['Rating'].unique()
```

```
Out[65]: 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 ?

```
In [66]: data.head(3)
```

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	T
0	s1	TV Show	3%	NaN	João Miguel, Bianca Comparato, Michel Gomes, R...	Brazil	August 14, 2020	TV-MA	4 Seasons	International TV Show TV Drama TV Sci-Fi
1	s2	Movie	07:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, ...	Mexico	December 23, 2016	TV-MA	93 min	International Movie Drama
2	s3	Movie	23:59	Gilbert Chan	Tedd Chan, Stella Chung, Henley Hii, Lawrence ...	Singapore	December 20, 2018	R	78 min	International Movie

```
In [67]: data[(data['Category']=='Movie') & (data['Rating']=='TV-14')]
```

Out[67]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duratio
8	s9	Movie	706	Shravan Kumar	Divya Dutta, Atul Kulkarni, Mohan Agashe, Anup...	India	April 1, 2019	TV-14	118 mi
15	s16	Movie	Oct-01	Kunle Afolayan	Sadiq Daba, David Bailie, Kayode Olaiya, Kehin...	Nigeria	September 1, 2019	TV-14	149 mi
18	s19	Movie	15-Aug	Swapnaneel Jayakar	Rahul Pethe, Mrunmayee Deshpande, Adinath Koth...	India	March 29, 2019	TV-14	124 mi
20	s21	Movie	Kuch Bheege Alfaaz	Onir	Geetanjali Thapa, Zain Khan Durrani, Shray Rai...	India	September 1, 2018	TV-14	110 mi
21	s22	Movie	Goli Soda 2	Vijay Milton	Samuthirakani, Bharath Seeni, Vinoth, Esakk... B...	India	September 15, 2018	TV-14	128 mi
...
7765	s7764	Movie	Zenda	Avadhoot Gupte	Santosh Juvekar, Siddharth Chandekar, Sachit P...	India	February 15, 2018	TV-14	120 mi
7766	s7765	Movie	Zero	Aanand Rai	Shah Rukh Khan, Anushka Sharma, Katrina Kaif, ...	India	May 21, 2019	TV-14	159 mi
7770	s7769	Movie	Zindagi Kitni Haseen Hay	Anjum Shahzad	Feroze Khan, Sajal Ali, Jibrayl Ahmed Rajput, ...	Pakistan	October 1, 2018	TV-14	126 mi
7771	s7770	Movie	Zindagi Na Milegi Dobara	Zoya Akhtar	Hrithik Roshan, Abhay Deol, Farhan Akhtar, Kat...	India	December 15, 2019	TV-14	154 mi
7785	s7784	Movie	Zubaan	Mozez Singh	Vicky Kaushal, Sarah-Jane Dias, Raaghav Chanan...	India	March 2, 2019	TV-14	111 mi

1272 rows × 13 columns

```
In [71]: data[(data['Category']=='Movie') & (data['Rating']=='TV-14')].shape
```

```
Out[71]: (1272, 13)
```

```
In [74]: data[(data['Category']=='Movie') & (data['Rating']=='TV-14') & (data['Country']=='Canada')]
```

Out[74]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	
30	s31	Movie	#cats_the_mewvie	Michael Margolis	NaN	Canada	February 5, 2020	TV-14	
34	s35	Movie	#Roxy	Michael Kennedy	Jake Short, Sarah Fisher, Booboo Stewart, Dann...	Canada	April 10, 2019	TV-14	
608	s609	Movie	At First Light	Jason Stone	Stefanie Scott, Theodore Pellerin, Percy Hynes...	Canada	December 27, 2018	TV-14	
1506	s1507	Movie	Counterfeiting in Suburbia	Jason Bourque	Sarah Butler, Larissa Albuquerque, Kayla Walla...	Canada	July 1, 2018	TV-14	
3713	s3714	Movie	Long Time Running	Jennifer Baichwal, Nicholas de Pencier	Gord Downie, Paul Langlois, Gord Sinclair, Rob...	Canada	November 12, 2017	TV-14	
3956	s3957	Movie	Martin Matte: La vie, la mort...eh la la..!	Jean-François Blais	Martin Matte	Canada	October 14, 2019	TV-14	
5336	s5336	Movie	Sadie's Last Days on Earth	Michael Seater	Morgan Taylor Campbell, Clark Backo, Ricardo H...	Canada	August 22, 2017	TV-14	
5393	s5393	Movie	Sardaar ji	Rohit Jugraj	Diljit Dosanjh, Neeru Bajwa, Mandy Takhar, Jas...	Canada	December 1, 2017	TV-14	
6062	s6062	Movie	The Accountant of Auschwitz	Matthew Shoychet	NaN	Canada	July 1, 2019	TV-14	
7025	s7024	Movie	The Wrong Babysitter	George Mendeluk	Daphne Zuniga, Seann Gallagher, Lisa Marie Car...	Canada	June 18, 2019	TV-14	

Show_Id	Category		Title	Director		Cast	Country	Release_Date	Rating	
7041	s7040	Movie	There's Something in the Water	Ellen Page, Ian Daniel		Ellen Page	Canada	March 27, 2020	TV-14	

Q.9.2. How many TV Show got the 'R' rating, after year 2018 ?

In [75]: `data.head(2)`

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	T
0	s1	TV Show	3%	NaN	João Miguel, Bianca Comparato, Michel Gomes, R...	Brazil	August 14, 2020	TV-MA	4 Seasons	International TV Show TV Drama TV Sci-Fi
1	s2	Movie	07:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, ...	Mexico	December 23, 2016	TV-MA	93 min	International Movie Drama

◀ ▶

In [77]: `data[(data['Category']=='TV Show') & (data['Rating']=='R')]`

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	T
4497	s4498	TV Show	Nobel	NaN	Aksel Hennie, Tuva Novotny, Anders Danielsen L...	Norway	December 10, 2016	R	1 Season	International TV
6437	s6436	TV Show	The Hateful Eight: Extended Version	Quentin Tarantino	Samuel L. Jackson, Kurt Russell, Jennifer Jason...	NaN	April 25, 2019	R	1 Season	International TV

◀ ▶

In [78]: `data[(data['Category']=='TV Show') & (data['Rating']=='R') & (data['Year']> 2018)]`

Out[78]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type
6437	s6436	TV Show	The Hateful Eight: Extended Version	Quentin Tarantino	Samuel L. Jackson, Kurt Russell, Jennifer Jason Leigh, ...	Nan	April 25, 2019	R	1 Season	Sho

Q.10. What is the maximum duration of a Movie>Show on Netflix .

In [79]:

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

Out[79]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type
0	s1	TV Show	3%	Nan	João Miguel, Bianca Comparato, Michel Gomes, R... ...el Gómez, ...	Brazil	August 14, 2020	TV-MA	4 Seasons	International TV Show TV Drama TV Sci-Fi
1	s2	Movie	07:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, ...	Mexico	December 23, 2016	TV-MA	93 min	International Movie Drama

```
data['Duration'].unique()
```

```
Out[82]: 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', '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)
```

```
In [83]: data['Duration'].dtypes
```

```
Out[83]: dtype('O')
```

```
str.split()
```

```
In [84]: data.head(2)
```

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	T
0	s1	TV Show	3%	NaN	João Miguel, Bianca Comparato, Michel Gomes, R...	Brazil	August 14, 2020	TV-MA	4 Seasons	International TV Show TV Drama TV Sci-Fi
1	s2	Movie	07:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, ...	Mexico	December 23, 2016	TV-MA	93 min	International Movie Drama

```
In [86]: data[['Minutes', 'Unit']] = data['Duration'].str.split(' ', expand=True)
```

```
In [87]: data.head(2)
```

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	T
0	s1	TV Show	3%	NaN	João Miguel, Bianca Comparato, Michel Gomes, R...	Brazil	August 14, 2020	TV-MA	4 Seasons	International TV Show TV Drama TV Sci-Fi
1	s2	Movie	07:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, ...	Mexico	December 23, 2016	TV-MA	93 min	International Movie Drama

max()

```
In [88]: data['Minutes'].max()
```

```
Out[88]: '99'
```

Q. 11. Which individual country has the Highest No. of TV Shows ?

```
In [89]: data.head(2)
```

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type
0	s1	TV Show	3%	NaN	João Miguel, Bianca Comparato, Michel Gomes, R...	Brazil	August 14, 2020	TV-MA	4 Seasons	International TV Show TV Drama TV Sci-Fi
1	s2	Movie	07:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, ...	Mexico	December 23, 2016	TV-MA	93 min	International Movie Drama

```
In [90]: data_Tvshow = data[data['Category'] == 'TV Show']
```

```
In [92]: data_Tvshow.head(2)
```

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type
0	s1	TV Show	3%	NaN	João Miguel, Bianca Comparato, Michel Gomes, R...	Brazil	August 14, 2020	TV-MA	4 Seasons	International TV Show TV Drama TV Sci-Fi
5	s6	TV Show	46	Serdar Akar	Erdal Beşikcioğlu, Yasemin Allen, Melis Birkan...	Turkey	July 1, 2017	TV-MA	1 Season	International TV Show TV Drama Mystery

```
In [94]: data_Tvshow.Country.value_counts()
```

```
Out[94]: 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
```

```
In [96]: data_Tvshow.Country.value_counts().head(1)
```

```
Out[96]: Country
United States    705
Name: count, dtype: int64
```

Q.12. How can we sort the dataset by Year?

```
In [97]: data.head(2)
```

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	T
0	s1	TV Show	3%	NaN	João Miguel, Bianca Comparato, Michel Gomes, R...	Brazil	August 14, 2020	TV- MA	4 Seasons	International TV Show TV Drama TV Sci-Fi
1	s2	Movie	07:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, ...	Mexico	December 23, 2016	TV- MA	93 min	International Movie



```
In [98]: data.sort_values(by='Year')
```

Out[98]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration
1765	s1766	TV Show	Dinner for Five	NaN	NaN	United States	February 4, 2008	TV-MA	1 Season
7115	s7114	Movie	To and From New York	Sorin Dan Mihalcescu	Barbara King, Shaana Diya, John Krisiukenas, Y...	United States	January 1, 2008	TV-MA	81 min
5766	s5766	Movie	Splatter	Joe Dante	Corey Feldman, Tony Todd, Tara Leigh, Erin Way...	United States	November 18, 2009	TV-MA	29 min
3248	s3249	Movie	Just Another Love Story	Ole Bornedal	Anders W. Berthelsen, Rebecka Hemse, Nikolaj L...	Denmark	May 5, 2009	TV-MA	104 min
3840	s3841	Movie	Mad Ron's Previews from Hell	Jim Monaco	Nick Pawlow, Jordu Schell, Jay Kushwara, Micha...	United States	November 1, 2010	NR	84 min
...
6952	s6951	TV Show	The Tudors	NaN	Jonathan Rhys Meyers, Henry Cavill, James Frai...	Ireland, Canada, United States, United Kingdom	January 8, 2018	TV-MA	4 Seasons
6998	s6997	TV Show	The West Wing	NaN	Martin Sheen, Rob Lowe, Allison Janney, John S...	United States	December 25, 2015	TV-14	7 Seasons
7448	s7447	TV Show	Vroomiz	NaN	Joon-seok Song, Jeong-hwa Yang, Sang-hyun Um, ...	South Korea	August 1, 2017	TV-Y	3 Seasons
7524	s7523	TV Show	Weird Wonders of the World	NaN	Chris Packham	United Kingdom	March 31, 2017	TV-PG	2 Seasons

Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration
7655	s7654	TV Show	Women Behind Bars	NaN	NaN	United States	November 1, 2016	TV-14 3 Seasons

7789 rows × 15 columns

```
In [99]: data.sort_values(by='Year', ascending=False)
```

Out[99]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration
6248	s6248	Movie	The Creative Brain	Jennifer Beamish, Toby Trackman	David Eagleman	United States	January 1, 2021	TV-14	53 min
3441	s3442	TV Show	Korean Pork Belly Rhapsody	NaN	Paik Jong-won	NaN	January 4, 2021	TV-G	1 Season
5980	s5980	Movie	Tanda Tanya	Hanung Bramantyo	Reza Rahadian, Revalina S. Temat, Rio Dewanto,...	NaN	January 14, 2021	TV-MA	102 min
1355	s1356	Movie	Chris Rock Total Blackout: The Tamborine Exten...	Chris Rock	Chris Rock	NaN	January 12, 2021	TV-MA	98 min
5955	s5955	Movie	Taare Zameen Par	Aamir Khan	Aamir Khan, Darsheel Safary, Tanay Chheda, Tis...	India	January 10, 2021	PG	162 min
6952	s6951	TV Show	The Tudors	NaN	Jonathan Rhys Meyers, Henry Cavill, James Frai...	Ireland, Canada, United States, United Kingdom	January 8, 2018	TV-MA	4 Seasons
6998	s6997	TV Show	The West Wing	NaN	Martin Sheen, Rob Lowe, Allison Janney, John S...	United States	December 25, 2015	TV-14	7 Seasons
7448	s7447	TV Show	Vroomiz	NaN	Joon-seok Song, Jeong-hwa Yang, Sang-hyun Um, ...	South Korea	August 1, 2017	TV-Y	3 Seasons
7524	s7523	TV Show	Weird Wonders of the World	NaN	Chris Packham	United Kingdom	March 31, 2017	TV-PG	2 Seasons
7655	s7654	TV Show	Women Behind	NaN	NaN	United States	November 1, 2016	TV-14	3 Seasons

```
Show_Id Category Title Director Cast Country Release_Date Rating Duration
```

```
Bars
```

7789 rows × 15 columns

Q.13.Find all the instances where :

Category is 'Movie' and Type is 'Dramas'

or

Category is 'TV Show' & Type is 'Kids' TV'

In [100...]

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

Out[100...]

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	...
0	s1	TV Show	3%	NaN	João Miguel, Bianca Comparato, Michel Gomes, R...	Brazil	August 14, 2020	TV-MA	4 Seasons	International	TV Show TV Drama TV Sci-Fi
1	s2	Movie	07:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, ...	Mexico	December 23, 2016	TV-MA	93 min	International	Drama Movie

```
data[(data['Category']=='Movie') & (data['Type']=='Dramas')].head(2)
```

Out[102...]

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	...
4	s5	Movie	21	Robert Luketic	Jim Sturgess, Kevin Spacey, Kate Bosworth, Aaron...	United States	January 1, 2020	PG-13	123 min	Dramas	A
7	s8	Movie	187	Kevin Reynolds	Samuel L. Jackson, John Heard, Kelly Rowan, Cl...	United States	November 1, 2019	R	119 min	Dramas	A

```
data[(data['Category']=='TV Show') & (data['Type']=='Kids' TV')]
```

Out[103...]

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Durat
111	s112	TV Show	44 Cats	NaN	Sarah Natochenny, Suzy Myers, Simona Berman, E...	Italy	October 1, 2020	TV-Y7	Seas
276	s277	TV Show	Abby Hatcher	Kyran Kelly	Macy Drouin, Wyatt White, Paul Sun-Hyung Lee, ...	United States, Canada	July 1, 2020	TV-Y	1 Sea
434	s435	TV Show	Alphablocks	NaN	Teresa Gallagher, David Holt, Lizzie Waterworth	United Kingdom	May 25, 2020	TV-Y	Seas
598	s599	TV Show	Ask the StoryBots	NaN	Judy Greer, Erin Fitzgerald, Fred Tatasciore, ...	United States	August 2, 2019	TV-Y	Seas
706	s707	TV Show	Bal Ganesh	Vijay S. Bhanushali	Meghna Erande Joshi, Parminder Ghuman	NaN	March 31, 2020	TV-Y7	1 Sea
...
7668	s7667	TV Show	World of Winx	Iginio Straffi	Haven Paschall, Alysha Deslorieux, Jessica Paq...	Italy, United States	June 16, 2017	TV-Y7	Seas
7717	s7716	TV Show	Yoko	NaN	Eileen Stevens, Alyson Leigh Rosenfeld, Sarah ...	NaN	June 23, 2018	TV-Y	1 Sea
7719	s7718	TV Show	YOM	NaN	Sairaj, Devyani Dagaonkar, Ketan Singh, Mayur ...	NaN	June 7, 2018	TV-Y7	1 Sea
7758	s7757	TV Show	Z4	NaN	Apollo Costa, Gabriel Santana, Matheus Lustosa...	Brazil	February 22, 2019	TV-PG	Seas
7761	s7760	TV Show	Zak Storm	NaN	Michael Johnston,	United States,	September 13, 2018	TV-Y7	Seas

Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Durat
				Jessica Gee- George, Christin...	France, South Korea, Indonesia			

205 rows × 15 columns

```
In [106]: data[(data['Category']=='Movie') & (data['Type']=='Dramas') | (data['Category']=='TV Show') &
```

Out[106...]

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration
4	s5	Movie	21	Robert Luketic	Jim Sturgess, Kevin Spacey, Kate Bosworth, Aar...	United States	January 1, 2020	PG-13	123 min
7	s8	Movie	187	Kevin Reynolds	Samuel L. Jackson, John Heard, Kelly Rowan, Cl...	United States	November 1, 2019	R	119 min
111	s112	TV Show	44 Cats	NaN	Sarah Natochenny, Suzy Myers, Simona Berman, E...	Italy	October 1, 2020	TV-Y7	2 Seasons
170	s171	Movie	A Family Man	Mark Williams	Gerard Butler, Gretchen Mol, Alison Brie, Will...	Canada, United States	December 15, 2019	R	110 min
232	s233	Movie	A Stoning in Fulham County	Larry Elikann	Ken Olin, Jill Eikenberry, Maureen Mueller, Gr...	United States	October 1, 2011	TV-14	95 min
...
7668	s7667	TV Show	World of Winx	Iginio Straffi	Haven Paschall, Alysha Deslorieux, Jessica Paq...	Italy, United States	June 16, 2017	TV-Y7	2 Seasons
7717	s7716	TV Show	Yoko	NaN	Eileen Stevens, Alyson Leigh Rosenfeld, Sarah ...	NaN	June 23, 2018	TV-Y	1 Season
7719	s7718	TV Show	YOM	NaN	Sairaj, Devyani Dagaonkar, Ketan Singh, Mayur ...	NaN	June 7, 2018	TV-Y7	1 Season
7758	s7757	TV Show	Z4	NaN	Apollo Costa, Gabriel Santana, Matheus Lustosa...	Brazil	February 22, 2019	TV-PG	2 Seasons
7761	s7760	TV Show	Zak Storm	NaN	Michael Johnston, Jessica Gee-	United States, France,	September 13, 2018	TV-Y7	3 Seasons

Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration
				George, Christin...	South Korea, Indonesia			

322 rows × 15 columns

In []: