

Netflix Data Analysis by Python (PANDAS & SEABORN)

In [113]: # IMPORTING IMAGE OF NETFLIX

```
from IPython.display import Image  
Image(filename="H:/Netflix.png", width=400, height=400)
```

Out[113]:



Netflix_Dataset - [\(https://drive.google.com/file/d/1p630pDcSkbQp_WXig8PeEVevZtSo4GQK/view\).](https://drive.google.com/file/d/1p630pDcSkbQp_WXig8PeEVevZtSo4GQK/view)

```
In [5]: # importing pandas Librabry and import NETFLIX dataset
import pandas as pd

net = pd.read_csv("H:/Netflix.csv")
net
```

Out[5]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description
0	s1	TV Show	3%	NaN	João Miguel, Bianca Comparato, Michel Gomes, R...	Brazil	August 14, 2020	TV-MA	4 Seasons	International TV Shows, TV Dramas, TV Sci-Fi &...	In a future where the elite inhabit an island ...
1	s2	Movie	07:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, ...	Mexico	December 23, 2016	TV-MA	93 min	Dramas, International Movies	After a devastating earthquake hits Mexico Cit...
2	s3	Movie	23:59	Gilbert Chan	Tedd Chan, Stella Chung, Henley Hii, Lawrence ...	Singapore	December 20, 2018	R	78 min	Horror Movies, International Movies	When an army recruit is found dead, his fellow...
3	s4	Movie	9	Shane Acker	Elijah Wood, John C. Reilly, Jennifer Connnelly...	United States	November 16, 2017	PG-13	80 min	Action & Adventure, Independent Movies, Sci-Fi...	In a postapocalyptic world, rag-doll robots hi...
4	s5	Movie	21	Robert Luketic	Jim Sturgess, Kevin Spacey, Kate Bosworth, Aar...	United States	January 1, 2020	PG-13	123 min	Dramas	A brilliant group of students become card-coun...
...
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	Dramas, International Movies	When Lebanon's Civil War deprives Zozo of his ...
7785	s7784	Movie	Zubaan	Mozez Singh	Vicky Kaushal, Sarah-Jane Dias, Raaghav Chanan...	India	March 2, 2019	TV-14	111 min	Dramas, International Movies, Music & Musicals	A scrappy but poor boy worms his way into a ty...

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description
7786	s7785	Movie	Zulu Man in Japan	NaN	Nasty C	NaN	September 25, 2020	TV-MA	44 min	Documentaries, International Movies, Music & M...	In this documentary, South African rapper Nast...
7787	s7786	TV Show	Zumbo's Just Desserts	NaN	Adriano Zumbo, Rachel Khoo	Australia	October 31, 2020	TV-PG	1 Season	International TV Shows, Reality TV	Dessert wizard Adriano Zumbo looks for the nex...
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	Documentaries, Music & Musicals	This documentary delves into the mystique behi...

7789 rows × 11 columns

In [6]: # top 5 rows of dataframe

```
net.head(5)
```

Out[6]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description
0	s1	TV Show	3%	Nan	João Miguel, Bianca Comparato, Michel Gomes, R...	Brazil	August 14, 2020	TV-MA	4 Seasons	International TV Shows, TV Dramas, TV Sci-Fi &...	In a future where the elite inhabit an island ...
1	s2	Movie	07:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, ...	Mexico	December 23, 2016	TV-MA	93 min	Dramas, International Movies	After a devastating earthquake hits Mexico Cit...
2	s3	Movie	23:59	Gilbert Chan	Tedd Chan, Stella Chung, Henley Hii, Lawrence ...	Singapore	December 20, 2018	R	78 min	Horror Movies, International Movies	When an army recruit is found dead, his fellow...
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4	s5	Movie	21	Robert Luketic	Jim Sturgess, Kevin Spacey, Kate Bosworth, Aar...	United States	January 1, 2020	PG-13	123 min	Dramas	A brilliant group of students become card-coun...

In [7]: # bottom 5 rows of dataframe
net.tail(5)

Out[7]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description
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	Dramas, International Movies	When Lebanon's Civil War deprives Zozo of his ...
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In [8]: # statistical overview of Netflix dataframe

```
net.describe().round(2)
```

Out[8]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description
count	7789	7789	7789	5401	7071	7282	7779	7782	7789	7789	7789
unique	7787	2	7787	4050	6831	681	1565	14	216	492	7769
top	s6621	Movie	The Lost Okoroshi	Raúl Campos, Jan Suter	David Attenborough	United States	January 1, 2020	TV-MA	1 Season	Documentaries	Multiple women report their husbands as missing
freq	2	5379	2	18	18	2556	118	2865	1608	334	3

In [9]: # checking the null values in all the series / columns

```
net.isnull().sum()
```

Out[9]:

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

In [10]: # memory usage of the dataframe (it's count on bytes)

```
net.memory_usage(index=False).sum()
```

Out[10]: 685432

```
In [11]: # to show no. of rows / columns
```

```
net.shape
```

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

```
In [12]: # to show the total values/ elements of the dataframe
```

```
net.size
```

```
Out[12]: 85679
```

```
In [13]: # to show each column name
```

```
net.columns
```

```
Out[13]: Index(['Show_Id', 'Category', 'Title', 'Director', 'Cast', 'Country',
       'Release_Date', 'Rating', 'Duration', 'Type', 'Description'],
      dtype='object')
```

```
In [14]: # to show the data-type of the each columns
```

```
net.dtypes
```

```
Out[14]: 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
```

Task_1. De-duplication

Remove the duplicates from the dataset , if there is duplicates

```
In [17]: # row wise duplicate value checking  
  
net.duplicated()
```

```
Out[17]: 0      False  
1      False  
2      False  
3      False  
4      False  
...  
7784    False  
7785    False  
7786    False  
7787    False  
7788    False  
Length: 7789, dtype: bool
```

```
In [18]: # now if you want to see how many duplicated values are there in wholesome  
  
net.duplicated().sum()
```

```
Out[18]: 2
```

In [19]: *# which row's has the duplicated values - show those row's*

```
net[net.duplicated()]
```

Out[19]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description
6300	s684	Movie	Backfire	Dave Patten	Black Deniro, Byron "Squally" Vinson, Dominic ...	United States	April 5, 2019	TV-MA	97 min	Dramas, Independent Movies, Thrillers	When two would-be robbers accidentally kill a ...
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	Comedies, Dramas, Independent Movies	A disillusioned security guard transforms into...

```
In [21]: # Now remove this duplicated row's [ for this we use drop_duplicates() function ]  
net.drop_duplicates()
```

Out[21]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description
0	s1	TV Show	3%	NaN	João Miguel, Bianca Comparato, Michel Gomes, R...	Brazil	August 14, 2020	TV-MA	4 Seasons	International TV Shows, TV Dramas, TV Sci-Fi &...	In a future where the elite inhabit an island ...
1	s2	Movie	07:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, ...	Mexico	December 23, 2016	TV-MA	93 min	Dramas, International Movies	After a devastating earthquake hits Mexico Cit...
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4	s5	Movie	21	Robert Luketic	Jim Sturgess, Kevin Spacey, Kate Bosworth, Aar...	United States	January 1, 2020	PG-13	123 min	Dramas	A brilliant group of students become card-coun...
...
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	Dramas, International Movies	When Lebanon's Civil War deprives Zozo of his ...
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Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description
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7787	s7786	TV Show	Zumbo's Just Desserts	NaN	Adriano Zumbo, Rachel Khoo	Australia	October 31, 2020	TV-PG	1 Season	International TV Shows, Reality TV
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	Documentaries, Music & Musicals

7787 rows × 11 columns

```
In [25]: # drop the duplicates permanently we use inplace = True
```

```
net.drop_duplicates(inplace = True)
```

```
In [23]: # now we have to assign this de-duplicated dataframe into new dataframe
```

```
net1 = net.drop_duplicates()  
net1
```

Out[23]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description
0	s1	TV Show	3%	NaN	João Miguel, Bianca Comparato, Michel Gomes, R...	Brazil	August 14, 2020	TV-MA	4 Seasons	International TV Shows, TV Dramas, TV Sci-Fi &...	In a future where the elite inhabit an island ...
1	s2	Movie	07:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, ...	Mexico	December 23, 2016	TV-MA	93 min	Dramas, International Movies	After a devastating earthquake hits Mexico Cit...
2	s3	Movie	23:59	Gilbert Chan	Tedd Chan, Stella Chung, Henley Hii, Lawrence ...	Singapore	December 20, 2018	R	78 min	Horror Movies, International Movies	When an army recruit is found dead, his fellow...
3	s4	Movie	9	Shane Acker	Elijah Wood, John C. Reilly, Jennifer Connnelly...	United States	November 16, 2017	PG-13	80 min	Action & Adventure, Independent Movies, Sci-Fi...	In a postapocalyptic world, rag-doll robots hi...
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Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description
7786	s7785	Movie	Zulu Man in Japan	NaN	Nasty C	NaN	September 25, 2020	TV-MA	44 min	Documentaries, International Movies, Music & M...
7787	s7786	TV Show	Zumbo's Just Desserts	NaN	Adriano Zumbo, Rachel Khoo	Australia	October 31, 2020	TV-PG	1 Season	International TV Shows, Reality TV
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	Documentaries, Music & Musicals

7787 rows × 11 columns

Task_2

Is there any null values present in the dataframe.... show it

In [26]: # to show the null values are present in the dataframe

```
net1.isnull()
```

Out[26]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description
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 [27]: # now show the actual number of total null values are there in column wise

```
net1.isnull().sum()
```

Out[27]:

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	

Now we show the null values via Heat_map by importing seaborn library

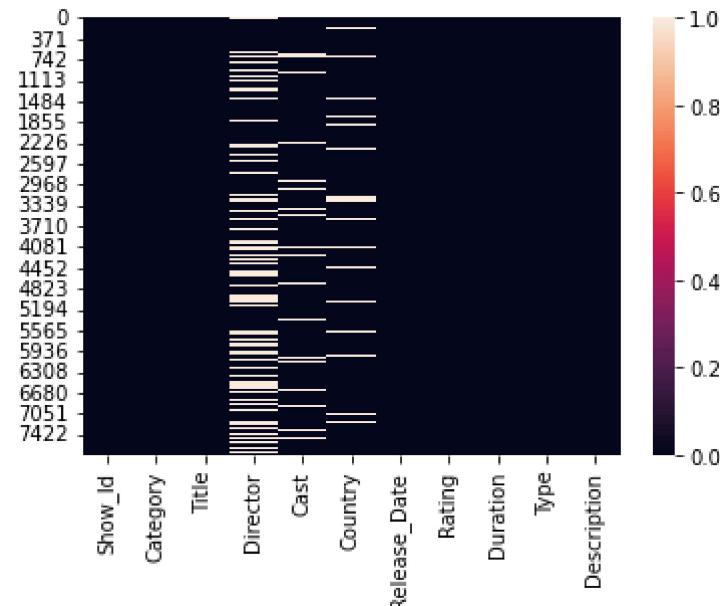
In [28]: # importing seaborn Librabry

```
import seaborn as sns
```

In [29]: # using heat map to show null values

```
sns.heatmap(net1.isnull())
```

Out[29]: <AxesSubplot:>



Data_Analysis

In [34]: # how many tv-shows are in NETFLIX

```
len(net1[net1['Category']=='TV Show'])
```

Out[34]: 2410

```
In [35]: # how many movies are in NETFLIX
```

```
len(net1[net1['Category']=='Movie'])
```

```
Out[35]: 5377
```

```
In [38]: # how many movies are in NETFLIX from indian region
```

```
len(net1[(net1['Category']=='Movie') & (net1['Country']=='India')])
```

```
Out[38]: 852
```

```
In [39]: # how many TV Show are in NETFLIX from indian region
```

```
len(net1[(net1['Category']=='TV Show') & (net1['Country']=='India')])
```

```
Out[39]: 71
```

```
In [40]: # how many TV Show are in NETFLIX from United States
```

```
len(net1[(net1['Category']=='Movie') & (net1['Country']=='United States')])
```

```
Out[40]: 1850
```

```
In [41]: # how many movies are in NETFLIX from United States
```

```
len(net1[(net1['Category']=='TV Show') & (net1['Country']=='United States')])
```

```
Out[41]: 705
```

In [47]: # for House of cards

isin() function

```
net1[net1['Title'].isin(['House of Cards'])]
```

Out[47]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description
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	TV Dramas, TV Thrillers	A ruthless politician will stop at nothing to ...

In [49]: # now same result with str.contains()

```
net1[net1['Title'].str.contains('House of Cards')]
```

Out[49]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description
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	TV Dramas, TV Thrillers	A ruthless politician will stop at nothing to ...

In [50]: # same result with direct filtering

```
net1[net1['Title']== 'House of Cards']
```

Out[50]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description
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	TV Dramas, TV Thrillers	A ruthless politician will stop at nothing to ...

```
In [1]: import pandas as pd  
  
net = pd.read_csv("H:/Netflix.csv")  
net
```

Out[1]:

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...
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Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description
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7789 rows × 11 columns

Which year highest no. of tv shows & movies were released by Bar-graph

```
In [8]: net1 = net.drop_duplicates(inplace = True)
net1 = net.drop_duplicates()
net1
```

Out[8]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description
0	s1	TV Show	3%	NaN	João Miguel, Bianca Comparato, Michel Gomes, R...	Brazil	August 14, 2020	TV-MA	4 Seasons	International TV Shows, TV Dramas, TV Sci-Fi &...	In a future where the elite inhabit an island ...
1	s2	Movie	07:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, ...	Mexico	December 23, 2016	TV-MA	93 min	Dramas, International Movies	After a devastating earthquake hits Mexico Cit...
2	s3	Movie	23:59	Gilbert Chan	Tedd Chan, Stella Chung, Henley Hii, Lawrence ...	Singapore	December 20, 2018	R	78 min	Horror Movies, International Movies	When an army recruit is found dead, his fellow...
3	s4	Movie	9	Shane Acker	Elijah Wood, John C. Reilly, Jennifer Connely...	United States	November 16, 2017	PG-13	80 min	Action & Adventure, Independent Movies, Sci-Fi...	In a postapocalyptic world, rag-doll robots hi...
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Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description
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7787 rows × 11 columns

In [10]: # add datetime to the date column [using to_datetime function]

```
net1['Date'] = pd.to_datetime(net1['Release_Date'])
net1['Date']
```

Out[10]: 0 2020-08-14

1 2016-12-23

2 2018-12-20

3 2017-11-16

4 2020-01-01

...

7784 2020-10-19

7785 2019-03-02

7786 2020-09-25

7787 2020-10-31

7788 2020-03-01

Name: Date, Length: 7787, dtype: datetime64[ns]

```
In [11]: # it counts the all occurance of all individual years in date column
```

```
net1['Date'].dt.year.value_counts()
```

```
Out[11]: 2019.0    2153
```

```
2020.0    2009
```

```
2018.0    1685
```

```
2017.0    1225
```

```
2016.0     443
```

```
2021.0     117
```

```
2015.0      88
```

```
2014.0      25
```

```
2011.0      13
```

```
2013.0      11
```

```
2012.0       3
```

```
2008.0       2
```

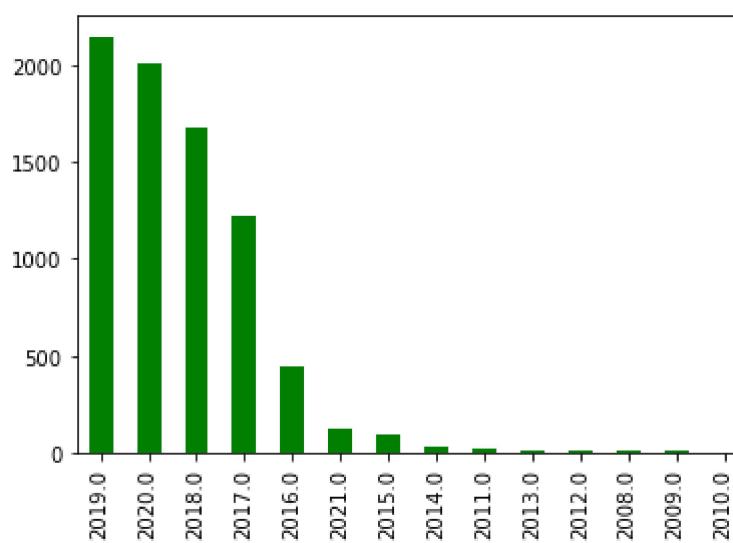
```
2009.0       2
```

```
2010.0       1
```

```
Name: Date, dtype: int64
```

```
In [23]: net1['Date'].dt.year.value_counts().plot(kind='bar', color='green')
```

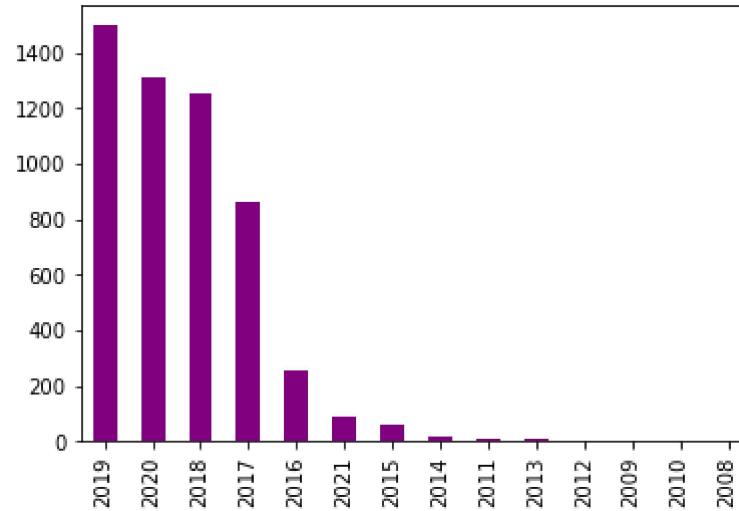
```
Out[23]: <AxesSubplot:>
```



```
In [22]: # year wise movie count represnt in bar - graph
```

```
net1[net1['Category'] == 'Movie']['Date'].dt.year.value_counts().plot(kind='bar',color='purple')
```

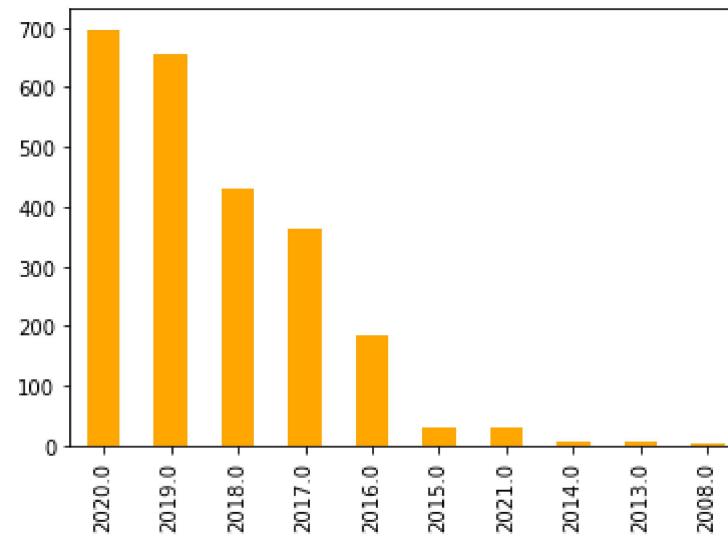
```
Out[22]: <AxesSubplot:>
```



In [24]: # year wise tv-shows count represent in bar - graph

```
net1[net1['Category'] == 'TV Show']['Date'].dt.year.value_counts().plot(kind='bar',color='orange')
```

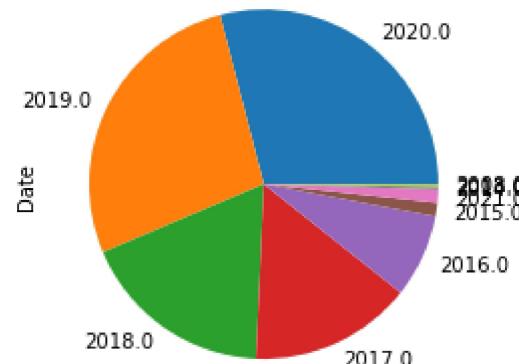
Out[24]: <AxesSubplot:>



In [31]: # no of movies and tv shows represent in visuals

```
net1[net1['Category']=='TV Show']['Date'].dt.year.value_counts().plot(kind='pie')
```

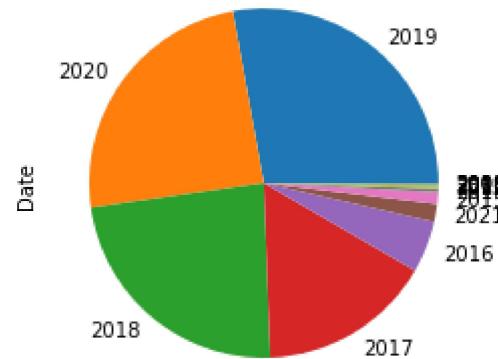
Out[31]: <AxesSubplot:ylabel='Date'>



```
In [32]: # no of movies and tv shows represent in visuals
```

```
net1[net1['Category']=='Movie']['Date'].dt.year.value_counts().plot(kind='pie')
```

```
Out[32]: <AxesSubplot:ylabel='Date'>
```



```
In [35]: # but if we wanna show this together movies + tvshows then how we gonna do this and plot year wise
```

```
net1.groupby('Category').Category.count()
```

```
Out[35]: Category
```

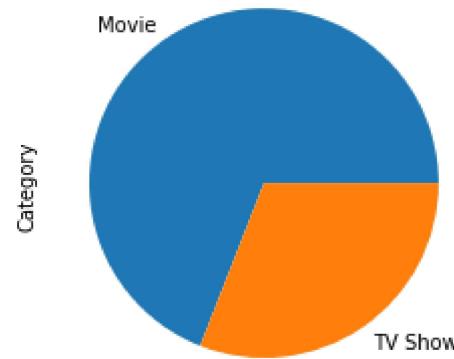
```
Movie      5377
```

```
TV Show    2410
```

```
Name: Category, dtype: int64
```

```
In [36]: net1.groupby('Category').Category.count().plot(kind='pie')
```

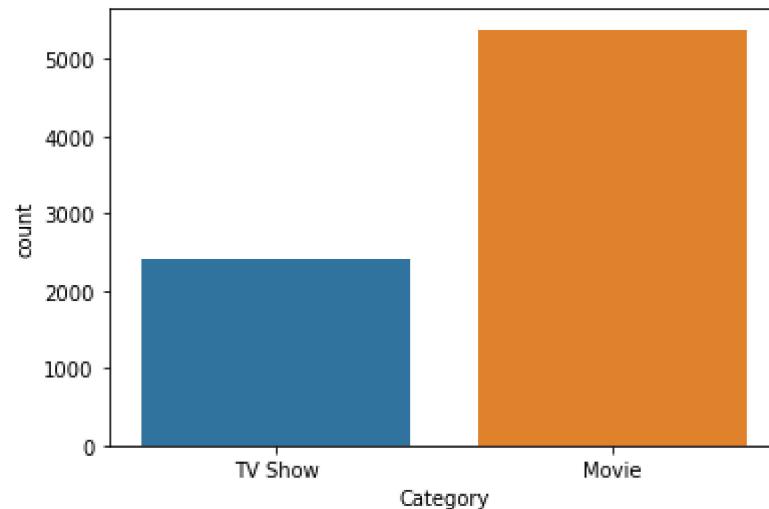
```
Out[36]: <AxesSubplot:ylabel='Category'>
```



```
In [39]: # if we wanna show all the unique values of Category and plot in Bar chart
import seaborn as sns
sns.countplot(net1['Category'])
```

C:\ProgramData\Anaconda3\lib\site-packages\seaborn_decorators.py:36: FutureWarning: Pass the following variable as a keyword arg: x. From version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.
warnings.warn(

```
Out[39]: <AxesSubplot:xlabel='Category', ylabel='count'>
```



Tv shows and movie has many different kind of Ratings , so calculate / count / plot according to that

```
In [40]: net1.groupby('Rating').Rating.count()
```

Out[40]: Rating

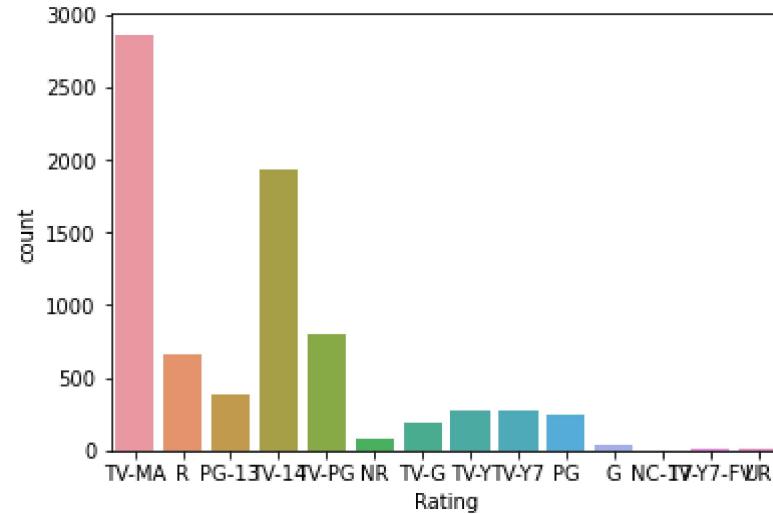
G	39
NC-17	3
NR	84
PG	247
PG-13	386
R	665
TV-14	1931
TV-G	194
TV-MA	2863
TV-PG	806
TV-Y	280
TV-Y7	271
TV-Y7-FV	6
UR	5

Name: Rating, dtype: int64

```
In [41]: sns.countplot(net1['Rating'])
```

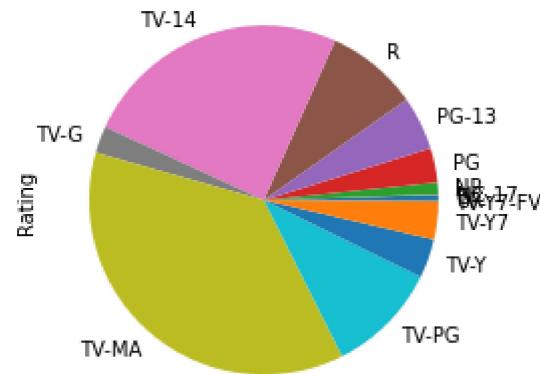
C:\ProgramData\Anaconda3\lib\site-packages\seaborn_decorators.py:36: FutureWarning: Pass the following variable as a keyword arg: x. From version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.
warnings.warn(

```
Out[41]: <AxesSubplot:xlabel='Rating', ylabel='count'>
```



```
In [43]: net1.groupby('Rating').Rating.count().plot(kind='pie')
```

```
Out[43]: <AxesSubplot:ylabel='Rating'>
```



```
In [45]: # show all movies released in the year 2020 ( two way filtering)
```

```
net1[(net1['Category']=='Movie') & (net1['Date']=='2020')]
```

Out[45]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	Date
4	s5	Movie	21	Robert Luketic	Jim Sturgess, Kevin Spacey, Kate Bosworth, Aar...	United States	January 1, 2020	PG-13	123 min	Dramas	A brilliant group of students become card-coun...	2020-01-01
163	s164	Movie	A Cinderella Story	Mark Rosman	Hilary Duff, Chad Michael Murray, Jennifer Coo...	United States, Canada	January 1, 2020	PG	95 min	Children & Family Movies, Comedies	Teen Sam meets the boy of her dreams at a danc...	2020-01-01
433	s434	Movie	Alpha and Omega: The Legend of the Saw Tooth Cave	Richard Rich	Debi Derryberry, Ben Diskin, Kate Higgins, Lin...	United States, India	January 1, 2020	TV-Y7	45 min	Children & Family Movies	When a wolf pup named Runt sneaks off to explo...	2020-01-01
455	s456	Movie	American Beauty	Sam Mendes	Kevin Spacey, Annette Bening, Thora Birch, Wes...	United States	January 1, 2020	R	122 min	Dramas	While struggling to endure his tightly wound w...	2020-01-01
588	s589	Movie	Arthur Christmas	Sarah Smith	James McAvoy, Hugh Laurie, Bill Nighy, Jim Bro...	United Kingdom, United States	January 1, 2020	PG	98 min	Children & Family Movies, Comedies	At Santa Claus's super-secret toy-making facil...	2020-01-01
...
7560	s7559	Movie	What Lies Beneath	Robert Zemeckis	Harrison Ford, Michelle Pfeiffer, Diana Scarwi...	United States	January 1, 2020	PG-13	130 min	Horror Movies, Thrillers	When Claire Spencer starts hearing ghostly voi...	2020-01-01

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	Date
7625	s7624	Movie	Wild Wild West	Barry Sonnenfeld	Will Smith, Kevin Kline, Kenneth Branagh, Salm...	United States	January 1, 2020	PG-13	106 min	Action & Adventure, Comedies, Sci-Fi & Fantasy	Armed with an ingenious arsenal, two top-notch...	2020-01-01
7630	s7629	Movie	Willy Wonka & the Chocolate Factory	Mel Stuart	Gene Wilder, Jack Albertson, Peter Ostrum, Roy...	United States, East Germany, West Germany	January 1, 2020	G	100 min	Children & Family Movies, Classic Movies, Come...	Zany Willy Wonka causes a stir when he announc...	2020-01-01
7683	s7682	Movie	Wyatt Earp	Lawrence Kasdan	Kevin Costner, Dennis Quaid, Gene Hackman, Dav...	United States	January 1, 2020	PG-13	191 min	Action & Adventure	Legendary lawman Wyatt Earp is continually at ...	2020-01-01
7707	s7706	Movie	Yes Man	Peyton Reed	Jim Carrey, Zooey Deschanel, Bradley Cooper, J...	United States, United Kingdom	January 1, 2020	PG-13	104 min	Comedies, Romantic Movies	After a bitter divorce, a bank drone falls und...	2020-01-01

105 rows × 12 columns

```
In [46]: # show only the Titles of the movies that are released in India
```

```
net1[(net1['Category']=='Movie') & (net1['Country']=='India')]['Title']
```

```
Out[46]: 8           706
9           1920
18          15-Aug
20          Kuch Bheege Alfaaz
21          Goli Soda 2
...
7766         Zero
7771         Zindagi Na Milegi Dobara
7778         Zokkomon
7782         Zoo
7785         Zubaan
Name: Title, Length: 852, dtype: object
```

```
In [48]: # show only the Titles of the tv-shows that are released in India
```

```
net1[(net1['Category']=='TV Show') & (net1['Country']=='India')]['Title']
```

```
Out[48]: 86          21 Sarfarosh: Saragarhi 1897
132          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
```

```
In [50]: # Top 10 directors who directed most no of Tv-Shows & Movies on NETFLIX
```

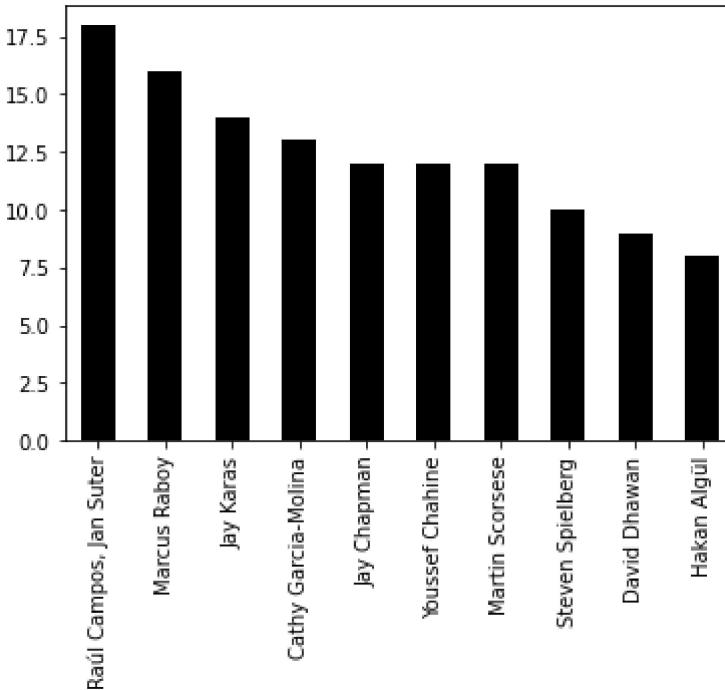
```
net1['Director'].value_counts().head(10)
```

```
Out[50]: 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: Director, dtype: int64
```

```
In [51]: # plot top 10 directors
```

```
net1['Director'].value_counts().head(10).plot(kind='bar',color='black')
```

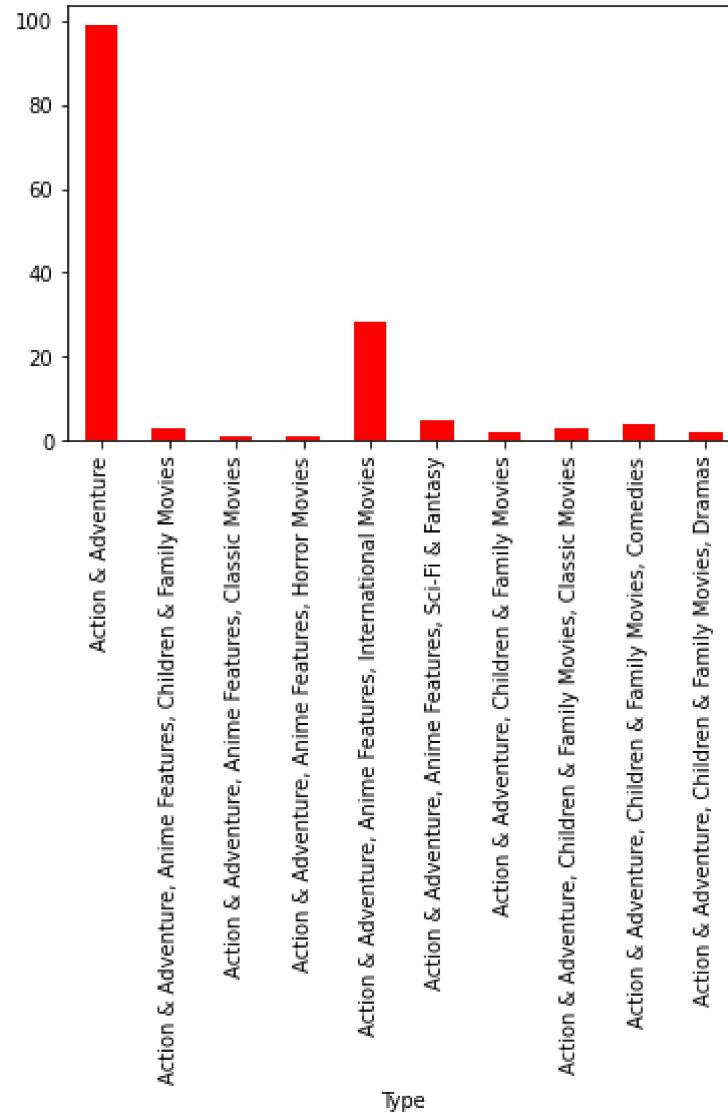
```
Out[51]: <AxesSubplot:>
```



In [55]: # top 10 movie / tv-show type

```
net1.groupby('Type').Type.count().head(10).plot(kind='bar',color='red')
```

Out[55]: <AxesSubplot:xlabel='Type'>



```
In [56]: # movies are type of comedies from united kingdom
```

```
net1[(net1['Category']=='Movie') & (net1['Type']=='Comedies') | (net1['Country']=='United Kingdom')]
```

Out[56]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	Da
19	s20	Movie	'89	NaN	Lee Dixon, Ian Wright, Paul Merson	United Kingdom	May 16, 2018	TV-PG	87 min	Sports Movies	Mixing old footage with interviews, this is th...	20105-
33	s34	Movie	#realityhigh	Fernando Lebrija	Nesta Cooper, Kate Walsh, John Michael Higgins...	United States	September 8, 2017	TV-14	99 min	Comedies	When nerdy high schooler Dani finally attracts...	20109-
58	s59	TV Show	100% Hotter	NaN	Daniel Palmer, Melissa Sophia, Karen Williams,...	United Kingdom	November 1, 2019	TV-14	1 Season	British TV Shows, International TV Shows, Real...	A stylist, a hair designer and a makeup artist...	20111-
72	s73	Movie	17 Again	Burr Steers	Zac Efron, Leslie Mann, Matthew Perry, Thomas ...	United States	January 1, 2021	PG-13	102 min	Comedies	Nearing a midlife crisis, thirty-something Mik...	20201-
82	s83	Movie	2036 Origin Unknown	Hasraf Dulull	Katee Sackhoff, Ray Fearon, Julie Cox, Steven ...	United Kingdom	December 20, 2018	TV-14	95 min	Sci-Fi & Fantasy	Working with an artificial intelligence to inv...	20112-
...
7670	s7669	TV Show	World War II in Colour	NaN	Robert Powell	United Kingdom	August 1, 2017	TV-MA	1 Season	British TV Shows, Docuseries, International TV...	Footage of the most dramatic moments from Worl...	20108-
7671	s7670	TV Show	World's Busiest Cities	NaN	Anita Rani, Ade Adepitan, Dan Snow	United Kingdom	February 1, 2019	TV-PG	1 Season	British TV Shows, Docuseries	From Moscow to Mexico City, three BBC journali...	20102-

Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	Da
7688	s7687	Movie	XV: Beyond the Tryline	Pierre Deschamps	NaN	United Kingdom	March 18, 2020	TV-14	91 min	Documentaries, Sports Movies	Set against the 2015 Rugby World Cup, this doc...
7725	s7724	Movie	You Can Tutu	James Brown	Lily O'Regan, Jeannett Sy Enriquez Borges, Joel...	United Kingdom	December 31, 2017	TV-G	87 min	Children & Family Movies	A gifted young ballet dancer struggles to find...
7740	s7739	TV Show	Young Wallander	NaN	Adam Pålsson, Richard Dillane, Leanne Best, El...	United Kingdom	September 3, 2020	TV-MA	1 Season	Crime TV Shows, International TV Shows, TV Dramas	An incendiary hate crime stirs civil unrest, f...

485 rows × 12 columns



```
In [57]: # movies are type of action from india
```

```
net1[(net1['Category']=='Movie') & (net1['Type']=='Action') | (net1['Country']=='India')]
```

Out[57]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	...
8	s9	Movie	706	Shravan Kumar	Divya Dutta, Atul Kulkarni, Mohan Agashe, Anup...	India	April 1, 2019	TV-14	118 min	Horror Movies, International Movies	When a doctor goes missing, his psychiatrist w...	2004
9	s10	Movie	1920	Vikram Bhatt	Rajneesh Duggal, Adah Sharma, Idraneil Sengupta...	India	December 15, 2017	TV-MA	143 min	Horror Movies, International Movies, Thrillers	An architect and his wife move into a castle t...	2012
18	s19	Movie	15-Aug	Swapnaneel Jayakar	Rahul Pethe, Mrunmayee Deshpande, Adinath Kothekar...	India	March 29, 2019	TV-14	124 min	Comedies, Dramas, Independent Movies	On India's Independence Day, a zany mishap in ...	2005
20	s21	Movie	Kuch Bheege Alfaaz	Onir	Geetanjali Thapa, Zain Khan Durrani, Shray Rai...	India	September 1, 2018	TV-14	110 min	Dramas, Independent Movies, International Movies	After accidentally connecting over the Interne...	2009
21	s22	Movie	Goli Soda 2	Vijay Milton	Samuthirakani, Bharath Seeni, Vinoth, Esakkimuthu B...	India	September 15, 2018	TV-14	128 min	Action & Adventure, Dramas, International Movies	A taxi driver, a gangster and an athlete strug...	2009
...
7766	s7765	Movie	Zero	Aanand Raj	Shah Rukh Khan, Anushka Sharma, Katrina Kaif, ...	India	May 21, 2019	TV-14	159 min	Comedies, Dramas, International Movies	Through his relationships with two wildly diff...	2005
7771	s7770	Movie	Zindagi Na Milegi Dobara	Zoya Akhtar	Hrithik Roshan, Abhay Deol, Farhan Akhtar, Katrina Kaif...	India	December 15, 2019	TV-14	154 min	Comedies, Dramas, International Movies	Three friends on an adventurous road trip/bach...	2012
7778	s7777	Movie	Zokkomon	Satyajit Bhatkal	Darsheel Safary, Anupam Kher, Manjari Fadnis, ...	India	November 1, 2018	PG	104 min	Children & Family Movies, Dramas	When his cruel uncle abandons him, a young orp...	2011

Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	...
7782	s7781	Movie	Zoo	Shlok Sharma	Shashank Arora, Shweta Tripathi, Rahul Kumar, ...	India	July 1, 2018	TV-MA	94 min	Dramas, Independent Movies, International Movies	A drug dealer starts having doubts about his t...
7785	s7784	Movie	Zubaan	Mozez Singh	Vicky Kaushal, Sarah-Jane Dias, Raaghav Chanan...	India	March 2, 2019	TV-14	111 min	Dramas, International Movies, Music & Musicals	A scrappy but poor boy worms his way into a ty...

923 rows × 12 columns



```
In [63]: # create a new data-frame  
net2 = net1.dropna()  
net2 # drop rows with missing values and mising row's
```

Out[63]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	Da
1	s2	Movie	07:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, ...	Mexico	December 23, 2016	TV-MA	93 min	Dramas, International Movies	After a devastating earthquake hits Mexico City...	2012-12-
2	s3	Movie	23:59	Gilbert Chan	Tedd Chan, Stella Chung, Henley Hii, Lawrence ...	Singapore	December 20, 2018	R	78 min	Horror Movies, International Movies	When an army recruit is found dead, his fellow...	2012-12-
3	s4	Movie	9	Shane Acker	Elijah Wood, John C. Reilly, Jennifer Connely...	United States	November 16, 2017	PG-13	80 min	Action & Adventure, Independent Movies, Sci-Fi...	In a postapocalyptic world, rag-doll robots hi...	2011-11-
4	s5	Movie	21	Robert Luketic	Jim Sturgess, Kevin Spacey, Kate Bosworth, Aar...	United States	January 1, 2020	PG-13	123 min	Dramas	A brilliant group of students become card-coun...	2020-01-
5	s6	TV Show	46	Serdar Akar	Erdal Beşikçioğlu, Yasemin Allen, Melis Birkan...	Turkey	July 1, 2017	TV-MA	1 Season	International TV Shows, TV Dramas, TV Mysteries	A genetics professor experiments with a treatm...	2010-07-
...
7780	s7779	Movie	Zombieland	Ruben Fleischer	Jesse Eisenberg, Woody Harrelson, Emma Stone, ...	United States	November 1, 2019	R	88 min	Comedies, Horror Movies	Looking to survive in a world taken over by zo...	2011-11-
7782	s7781	Movie	Zoo	Shlok Sharma	Shashank Arora, Shweta Tripathi, Rahul Kumar, ...	India	July 1, 2018	TV-MA	94 min	Dramas, Independent Movies, International Movies	A drug dealer starts having doubts about his t...	2010-07-

Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	Da
7783	s7782	Movie	Zoom	Peter Hewitt	Tim Allen, Courteney Cox, Chevy Chase, Kate Ma...	United States	January 11, 2020	PG	88 min	Children & Family Movies, Comedies	Dragged from civilian life, a former superhero...
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	Dramas, International Movies	When Lebanon's Civil War deprives Zozo of his ...
7785	s7784	Movie	Zubaan	Mozez Singh	Vicky Kaushal, Sarah-Jane Dias, Raaghav Chan...	India	March 2, 2019	TV-14	111 min	Dramas, International Movies, Music & Musicals	A scrappy but poor boy worms his way into a ty...

4809 rows × 12 columns

```
In [65]: # different ratings on Netflix ( no. of unique things checked by nuinque() )

net2['Rating'].nunique()

# nunique() -> shows the number unique files are present on the dataframe
```

Out[65]: 14

```
In [66]: # different ratings on Netflix ( unique things checked by uinque() )

net2['Rating'].unique()

# unique() -> shows the unique files are present on the dataframe
```

Out[66]: array(['TV-MA', 'R', 'PG-13', 'TV-14', 'TV-G', 'TV-PG', 'NR', 'PG', 'G', 'TV-Y7', 'TV-Y', 'NC-17', 'TV-Y7-FV', 'UR'], dtype=object)

Duration

```
In [69]: net2.Duration.unique()
```

```
Out[69]: array(['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', '110 min', '128 min', '117 min',  
    '100 min', '99 min', '102 min', '104 min', '105 min', '125 min',  
    '81 min', '97 min', '106 min', '107 min', '87 min', '109 min',  
    '101 min', '90 min', '113 min', '114 min', '130 min', '94 min',  
    '140 min', '135 min', '82 min', '70 min', '92 min', '164 min',  
    '83 min', '116 min', '84 min', '86 min', '120 min', '96 min',  
    '126 min', '75 min', '129 min', '77 min', '137 min', '148 min',  
    '121 min', '122 min', '176 min', '85 min', '22 min', '68 min',  
    '111 min', '29 min', '142 min', '168 min', '59 min', '108 min',  
    '44 min', '26 min', '156 min', '98 min', '57 min', '150 min',  
    '133 min', '115 min', '154 min', '127 min', '146 min', '136 min',  
    '88 min', '131 min', '2 Seasons', '24 min', '112 min', '74 min',  
    '63 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', '45 min', '172 min', '53 min', '163 min',  
    '55 min', '61 min', '71 min', '160 min', '171 min', '30 min',  
    '48 min', '139 min', '157 min', '15 min', '72 min', '134 min',  
    '161 min', '62 min', '8 Seasons', '186 min', '49 min', '73 min',  
    '58 min', '65 min', '165 min', '159 min', '141 min', '132 min',  
    '166 min', '76 min', '25 min', '56 min', '138 min', '67 min',  
    '28 min', '66 min', '180 min', '47 min', '155 min', '14 min',  
    '177 min', '9 Seasons', '46 min', '145 min', '6 Seasons', '8 min',  
    '12 min', '52 min', '5 Seasons', '43 min', '4 Seasons', '185 min',  
    '200 min', '169 min', '27 min', '170 min', '196 min', '33 min',  
    '181 min', '32 min', '167 min', '179 min', '3 Seasons', '193 min',  
    '214 min', '173 min', '192 min', '209 min', '187 min', '41 min',  
    '182 min', '23 min', '224 min', '37 min', '35 min', '20 min',  
    '50 min', '189 min', '152 min', '38 min', '208 min', '237 min',  
    '31 min', '178 min', '194 min', '228 min', '195 min', '15 Seasons',  
    '18 min', '205 min', '201 min', '40 min', '253 min', '190 min',  
    '17 min', '203 min', '191 min'], dtype=object)
```

In [71]: # This way we can split one column values to different columns

```
net2[['Minitues','Unit']] = net2['Duration'].str.split(' ',expand=True)
```

Here basically dataframe allocate which two columns theya are gonna divide the value , after that str.split()

expand = True , you have to mention this because the dateframe are expanding from the current stage
net2.head(2)

Out[71]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	Date	Minitues	Unit
1	s2	Movie	07:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, ...	Mexico	December 23, 2016	TV-MA	93 min	Dramas, International Movies	After a devastating earthquake hits Mexico City...	2016-12-23	93	93
2	s3	Movie	23:59	Gilbert Chan	Tedd Chan, Stella Chung, Henley Hii, Lawrence ...	Singapore	December 20, 2018	R	78 min	Horror Movies, International Movies	When an army recruit is found dead, his fellow...	2018-12-20	78	78

In [72]: # highest movie time duration in The NETFLIX

```
net2[net2['Category']=='Movie']['Minitues'].max()
```

Out[72]: '99'

In [73]: # highest tv show time duration in The NETFLIX

```
net2[net2['Category']=='TV Show']['Minitues'].max()
```

Out[73]: '9'

```
In [78]: # which individual country has the max no of tv shows
```

```
net_tvshow = net2[net2['Category']== 'TV Show']  
net_tvshow
```

Out[78]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	Date	M
5	s6	TV Show	46	Serdar Akar	Erdal Beşikçioğlu, Yasemin Allen, Melis Birkan...	Turkey	July 1, 2017	TV-MA	1 Season	International TV Shows, TV Dramas, TV Mysteries	A genetics professor experiments with a treatm...	2017-07-01	
132	s133	TV Show	7 (Seven)	Nizar Shafi	Rahman, Havish, Regina Cassandra, Nandita Swet...	India	July 30, 2019	TV-14	1 Season	TV Shows	Multiple women report their husbands as missin...	2019-07-30	
218	s219	TV Show	A Queen Is Born	Carla Barros	Gloria Groove, Alexia Twister	Brazil	November 11, 2020	TV-14	1 Season	International TV Shows, Reality TV	Gloria Groove and Alexia Twister make drag dre...	2020-11-11	
260	s261	TV Show	A.I.C.O.	Kazuya Murata	Haruka Shiraishi, Yusuke Kobayashi, Makoto Fur...	Japan	March 9, 2018	TV-14	1 Season	Anime Series, International TV Shows	Everything Aiko knew was a lie. Now she's join...	2018-03-09	
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 Season	Kids' TV	A big-hearted girl helps her Fuzzy friends wh...	2020-07-01	
...
7387	s7386	TV Show	Valeria	Inma Torrente	Diana Gómez, Silma López, Paula Malia, Teresa ...	Spain	May 8, 2020	TV-MA	1 Season	International TV Shows, Romantic TV Shows, Spa...	A writer in creative and marital crises finds ...	2020-05-08	

Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	Date	M
7402	s7401	TV Show	Velvet	Carlos Sedes	Paula Echevarría, Miguel Ángel Silvestre, Aita...	Spain	March 4, 2020	TV-14	4 Seasons	International TV Shows, Romantic TV Shows, Spa...	In 1950s Spain, the heir to a fashion house ro...	2020-03-04
7494	s7493	TV Show	Watership Down	Noam Murro	James McAvoy, Nicholas Hoult, John Boyega, Ben...	United Kingdom, Ireland, United States	December 23, 2018	TV-PG	1 Season	British TV Shows, International TV Shows, TV A...	A warren of rabbits battles many threats on th...	2018-12-23
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	Kids' TV	The reality show "WOW!" engages the Winx in th...	2017-06-16
7723	s7722	TV Show	You	Lee Toland Krieger	Penn Badgley, Elizabeth Lail, Shay Mitchell, J...	United States	December 26, 2019	TV-MA	2 Seasons	Crime TV Shows, Romantic TV Shows, TV Dramas	Obsessed with an aspiring writer, a charming b...	2019-12-26

136 rows × 14 columns

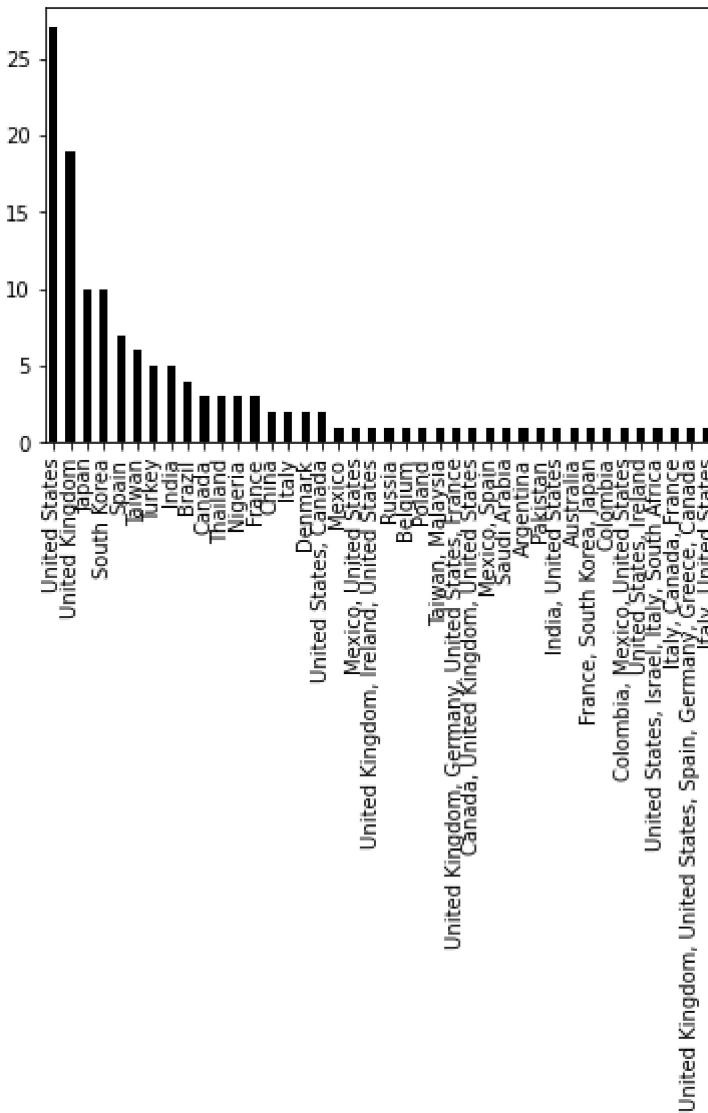


```
In [80]: net_tvshow.Country.value_counts()
```

```
Out[80]: United States          27  
United Kingdom           19  
Japan                   10  
South Korea              10  
Spain                    7  
Taiwan                  6  
Turkey                  5  
India                    5  
Brazil                  4  
Canada                  3  
Thailand                3  
Nigeria                3  
France                  3  
China                   2  
Italy                    2  
Denmark                 2  
United States, Canada    2  
Mexico                  1  
Mexico, United States     1  
United Kingdom, Ireland, United States 1  
Russia                  1  
Belgium                 1  
Poland                  1  
Taiwan, Malaysia         1  
United Kingdom, Germany, United States, France 1  
Canada, United Kingdom, United States 1  
Mexico, Spain             1  
Saudi Arabia             1  
Argentina               1  
Pakistan                1  
India, United States      1  
Australia               1  
France, South Korea, Japan 1  
Colombia                1  
Colombia, Mexico, United States 1  
United States, Ireland    1  
United States, Israel, Italy, South Africa 1  
Italy, Canada, France     1  
United Kingdom, United States, Spain, Germany, Greece, Canada 1  
Italy, United States       1  
Name: Country, dtype: int64
```

```
In [81]: net_tvshow.Country.value_counts().plot(kind='bar',color='black')
```

```
Out[81]: <AxesSubplot:>
```



```
In [82]: # which individual country has the max no of movies
```

```
net_movie = net2[net2['Category'] == 'Movie']
net_movie
```

Out[82]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	Date
1	s2	Movie	07:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, ...	Mexico	December 23, 2016	TV-MA	93 min	Dramas, International Movies	After a devastating earthquake hits Mexico City...	2016-12-23
2	s3	Movie	23:59	Gilbert Chan	Tedd Chan, Stella Chung, Henley Hii, Lawrence ...	Singapore	December 20, 2018	R	78 min	Horror Movies, International Movies	When an army recruit is found dead, his fellow...	2018-12-20
3	s4	Movie	9	Shane Acker	Elijah Wood, John C. Reilly, Jennifer Connely...	United States	November 16, 2017	PG-13	80 min	Action & Adventure, Independent Movies, Sci-Fi...	In a postapocalyptic world, rag-doll robots hi...	2017-11-16
4	s5	Movie	21	Robert Luketic	Jim Sturgess, Kevin Spacey, Kate Bosworth, Aar...	United States	January 1, 2020	PG-13	123 min	Dramas	A brilliant group of students become card-coun...	2020-01-01
6	s7	Movie	122	Yasir Al Yasiri	Amina Khalil, Ahmed Dawood, Tarek Lotfy, Ahmed...	Egypt	June 1, 2020	TV-MA	95 min	Horror Movies, International Movies	After an awful accident, a couple admitted to ...	2020-06-01
...
7780	s7779	Movie	Zombieland	Ruben Fleischer	Jesse Eisenberg, Woody Harrelson, Emma Stone, ...	United States	November 1, 2019	R	88 min	Comedies, Horror Movies	Looking to survive in a world taken over by zo...	2019-11-01

Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	Date
7782	s7781	Movie	Zoo	Shlok Sharma	Shashank Arora, Shweta Tripathi, Rahul Kumar, ...	India	July 1, 2018	TV-MA	94 min	Dramas, Independent Movies, International Movies	A drug dealer starts having doubts about his t... 2018-07-01
7783	s7782	Movie	Zoom	Peter Hewitt	Tim Allen, Courteney Cox, Chevy Chase, Kate Ma...	United States	January 11, 2020	PG	88 min	Children & Family Movies, Comedies	Dragged from civilian life, a former superhero... 2020-01-11
7784	s7783	Movie	Zozo	Josef Fares	Imad Creidi, Antoinette Turk, Elias Gergi, Car...	Sweden, Czech Republic, United Kingdom, Denmark...	October 19, 2020	TV-MA	99 min	Dramas, International Movies	When Lebanon's Civil War deprives Zozo of his ... 2020-10-19
7785	s7784	Movie	Zubaan	Mozez Singh	Vicky Kaushal, Sarah-Jane Dias, Raaghav Chan...	India	March 2, 2019	TV-14	111 min	Dramas, International Movies, Music & Musicals	A scrappy but poor boy worms his way into a ty... 2019-03-02

4673 rows × 14 columns

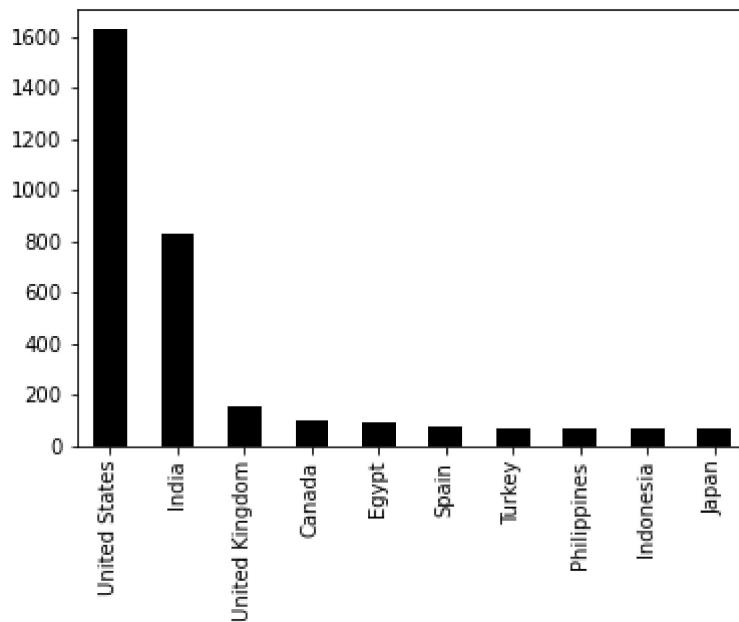
In [83]: net_movie.Country.value_counts()

United States	1627
India	827
United Kingdom	155
Canada	101
Egypt	87
	...
Netherlands, Belgium	1
United Kingdom, Denmark, Canada, Croatia	1
Thailand, United States	1
United States, South Korea	1
Sweden, Czech Republic, United Kingdom, Denmark, Netherlands	1

Name: Country, Length: 536, dtype: int64

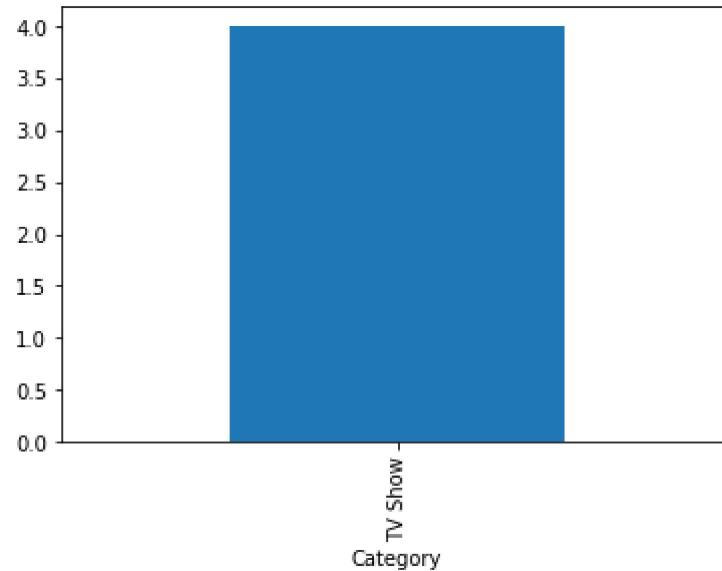
```
In [90]: net_movie.Country.value_counts().head(10).plot(kind='bar',color='black')
```

```
Out[90]: <AxesSubplot:>
```



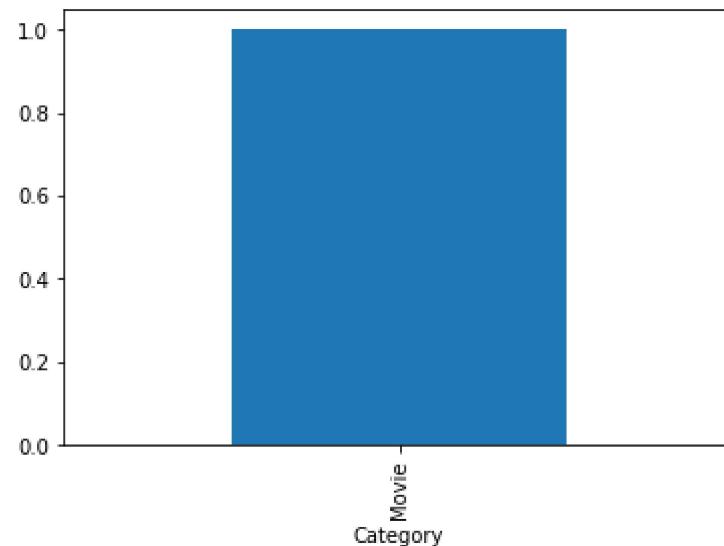
```
In [97]: # how many kids tv shows and movies are there on NETFLIX  
net_kids = net2[net2['Type']=='Kids' TV']  
net_kids  
net_kids.groupby('Category').Category.count().plot(kind='bar')
```

```
Out[97]: <AxesSubplot:xlabel='Category'>
```



```
In [100]: # how many sci fi tv shows and movies are there on NETFLIX  
net_sci = net2[net2['Type']=='Sci-Fi & Fantasy']  
net_sci  
net_sci.groupby('Category').Category.count().plot(kind='bar')
```

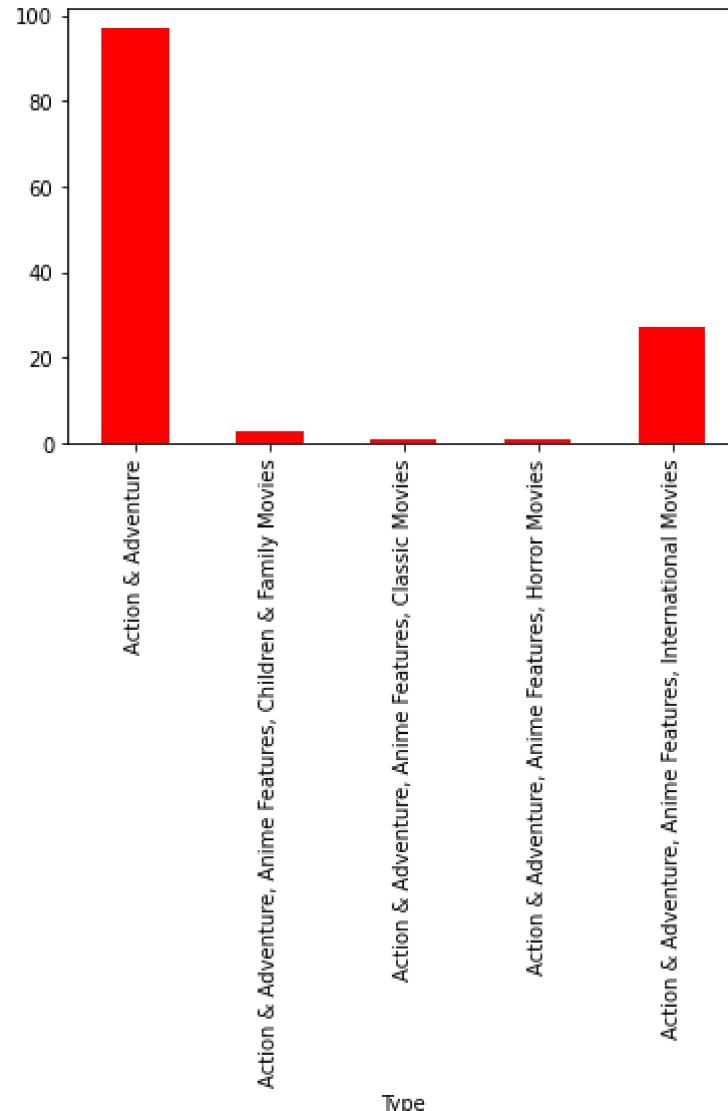
```
Out[100]: <AxesSubplot:xlabel='Category'>
```



```
In [106]: # how many Horror tv shows and movies are there on NETFLIX
```

```
net2.groupby('Type').Type.count().head(5).plot(kind='bar',color='Red')
```

```
Out[106]: <AxesSubplot:xlabel='Type'>
```



Netflix has become a major player in the entertainment industry, offering a vast selection of TV shows and movies to its subscribers. Its original content has gained critical acclaim and a loyal fan base. From award-winning dramas like "The

"Crown" and "Stranger Things" to gripping documentaries like "Tiger King" and "Making a Murderer," Netflix's original programming offers something for everyone. In addition to its original content, Netflix also offers a wide variety of licensed TV shows and movies, making it a go-to destination for binge-watchers everywhere. Overall, Netflix has revolutionized the way we consume entertainment and continues to be a dominant force in the industry.

Netflix has made a significant investment in Indian content, offering a diverse selection of TV shows and movies to its Indian subscribers. Its original Indian programming, such as "Sacred Games," "Delhi Crime," and "Ludo," has garnered critical acclaim and a growing audience. Additionally, Netflix has acquired a range of popular Indian movies and TV shows, making it a go-to destination for Indian viewers looking for both new and classic content. With its increasing focus on India, Netflix is contributing to the growth of the Indian entertainment industry and has become an important player in the country's media landscape.

In []: