

```
In [19]: import pandas as pd
data=pd.read_csv(r"E:\Downloads\8. Netflix Dataset.csv")
```

```
In [21]: data
```

	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 Connelly...	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...
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

getting some information about the dataset

## 1.head()

```
In [22]: data.head()
```

	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 Connelly...	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...

## tail()

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

	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, Denmark...	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...
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...

### 3.shape

In [24]: `data.shape`Out[24]: `(7789, 11)`

### 4.size

In [25]: `data.size # total number of elements`Out[25]: `85679`

### 5. columns

In [26]: `data.columns`Out[26]: `Index(['Show_Id', 'Category', 'Title', 'Director', 'Cast', 'Country', 'Release_Date', 'Rating', 'Duration', 'Type', 'Description'], dtype='object')`

### 6.dtypes

In [27]: `data.dtypes`Out[27]: `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`In [10]: `# 7.info()`In [28]: `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
```

## 8.Task1 if there any duplicate record in this dataset?if yes ,then remove the duplicate records.

### duplicate()

In [29]: `data.shape`

Out[29]: (7789, 11)

In [31]: `data.duplicated()`

```
Out[31]: 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 [32]: `data[data.duplicated()]`

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 [33]: `data.drop_duplicates(inplace=True) # remove duplicates`

In [34]: `data[data.duplicated()]`

Out[34]:

Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description
---------	----------	-------	----------	------	---------	--------------	--------	----------	------	-------------

## Task 2 is any null value present in any column?show with heat map

### isnull()

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

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 Dermián Bichir, Héctor Bonilla, Oscar Serrano, ...	Mexico	December 23, 2016	TV-MA	93 min	Dramas, International Movies	After a devastating earthquake hits Mexico Citt...
2	s3	Movie	23:59	Gilbert Chan Tedd Chan, Stella Chung, Henley Hill, 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 Connelly...	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...

In [36]: `data.isnull()`

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

7787 rows × 11 columns

```
In [37]: data.isnull().sum()
```

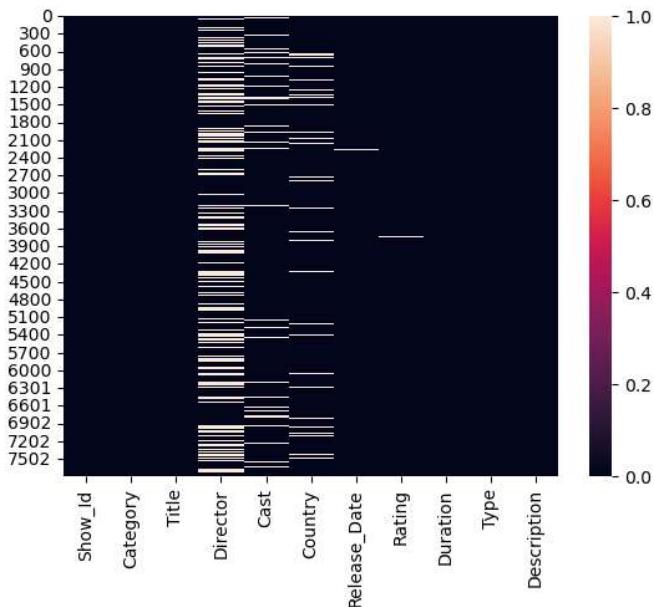
```
Out[37]: Show_Id      0
Category      0
Title         0
Director     2388
Cast          718
Country       507
Release_Date   10
Rating         7
Duration       0
Type          0
Description    0
dtype: int64
```

## seaborn library (heat-map)

```
In [38]: import seaborn as sns
```

```
In [39]: sns.heatmap(data.isnull()) # white line shows missing/null values
```

```
Out[39]: <Axes: >
```



## Q1. for 'House of cards' what is show id and who is the director of this show?

### isin()

```
In [40]: data['Title'].isin(['House of Cards']) # we will get House of Cards in title column
```

```
Out[40]: 0      False
1      False
2      False
3      False
4      False
...
7784    False
7785    False
7786    False
7787    False
7788    False
Name: Title, Length: 7787, dtype: bool
```

```
In [41]: data[data['Title'].isin(['House of Cards'])] # we can see show id and director below
```

	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 ...

### method 2:-str.contains()

```
In [42]: data[data['Title'].str.contains('House of Cards')] # To show all records of a particular string in any column
```

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 ...

**Q2.in which year highest number of TV shows & movies were released ? show with bar graph.**

```
In [43]: data.dtypes
```

```
Out[43]:
```

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 [45]: data['Date_N']=pd.to_datetime(data['Release_Date']) # a new column is created " Date_N"
```

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

Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	Date_N
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...
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...

## dt.year.value\_counts()

```
In [47]: data['Date_N'].dt.year.value_counts() # shows year wise releases
```

```
Out[47]:
```

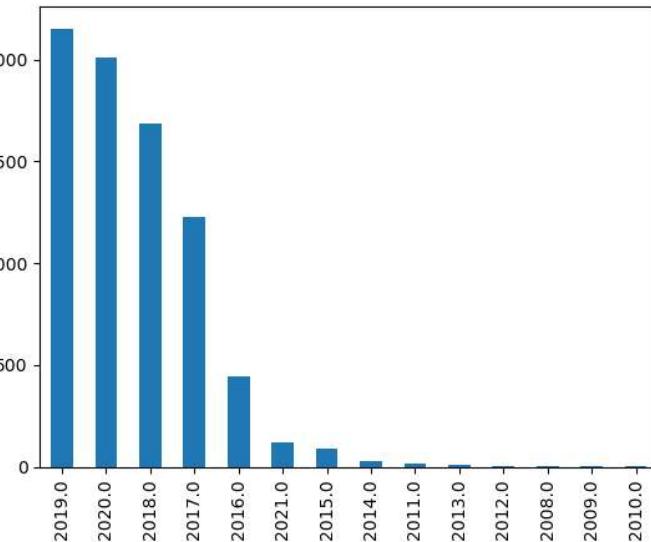
2019.0	2153
2020.0	2009
2018.0	1685
2017.0	1225
2016.0	443
2021.0	117
2015.0	88
2014.0	25
2011.0	13
2013.0	11
2012.0	3
2008.0	2
2009.0	2
2010.0	1

Name: Date\_N, dtype: int64

## Bar graph

```
In [48]: data['Date_N'].dt.year.value_counts().plot(kind='bar')
```

```
Out[48]: <Axes: >
```



### Q 3. How many Movies & TV Shows are in the Dataset? Show with Bar graph.

```
In [49]: data.head(2)
```

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	Date_N
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 ...	2020-08-14
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...	2016-12-23

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

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	Date_N
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 ...	2020-08-14
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...	2016-12-23

### groupby()

```
In [51]: data.groupby('Category') # groups are created
```

```
Out[51]: <pandas.core.groupby.generic.DataFrameGroupBy object at 0x0000019D59B9C820>
```

```
In [52]: data.groupby('Category').Category.count()
```

```
Out[52]: Category
Movie      5377
TV Show    2410
Name: Category, dtype: int64
```

### countplot()

```
In [53]: sns.countplot(data['Category']) ### doubt

-----
ValueError                                Traceback (most recent call last)
Cell In[53], line 1
----> 1 sns.countplot(data['Category'])

File C:\ProgramData\anaconda3\lib\site-packages\seaborn\categorical.py:2943, in countplot(data, x, y, hue, order, hue_order, orientation, color, palette, saturation, width, dodge, ax, **kwargs)
2940     elif x is not None and y is not None:
2941         raise ValueError("Cannot pass values for both `x` and `y`")
-> 2943     plotter = _CountPlotter(
2944         x, y, hue, data, order, hue_order,
2945         estimator, errorbar, n_boot, units, seed,
2946         orient, color, palette, saturation,
2947         width, errcolor, errwidth, capsize, dodge
2948     )
2950     plotter.value_label = "count"
2952 if ax is None:

File C:\ProgramData\anaconda3\lib\site-packages\seaborn\categorical.py:1530, in _BarPlotter.__init__(self, x, y, hue, data, order, hue_order, estimator, errorbar, n_boot, units, seed, orient, color, palette, saturation, width, errcolor, errwidth, capsize, dodge)
1525     def __init__(self, x, y, hue, data, order, hue_order,
1526                  estimator, errorbar, n_boot, units, seed,
1527                  orient, color, palette, saturation, width,
1528                  errcolor, errwidth, capsize, dodge):
1529         """Initialize the plotter."""
-> 1530         self._establish_variables(x, y, hue, data, orient,
1531                                   order, hue_order, units)
1532         self._establish_colors(color, palette, saturation)
1533         self._estimate_statistic(estimator, errorbar, n_boot, seed)

File C:\ProgramData\anaconda3\lib\site-packages\seaborn\categorical.py:516, in _CategoricalPlotter._establish_variables(self, x, y, hue, data, orient, order, hue_order, units)
513     plot_data = data
515 # Convert to a list of arrays, the common representation
--> 516 plot_data = [np.asarray(d, float) for d in plot_data]
518 # The group names will just be numeric indices
519 group_names = list(range(len(plot_data)))

File C:\ProgramData\anaconda3\lib\site-packages\seaborn\categorical.py:516, in <listcomp>(.0)
513     plot_data = data
515 # Convert to a list of arrays, the common representation
--> 516 plot_data = [np.asarray(d, float) for d in plot_data]
518 # The group names will just be numeric indices
519 group_names = list(range(len(plot_data)))

File C:\ProgramData\anaconda3\lib\site-packages\pandas\core\series.py:893, in Series._array__(self, dtype)
846     def __array__(self, dtype: npt.DTypeLike | None = None) -> np.ndarray:
847         """
848             Return the values as a NumPy array.
849
850         ...
891         dtype='datetime64[ns]')
892         """
--> 893     return np.asarray(self._values, dtype)

ValueError: could not convert string to float: 'TV Show'
```

## Show all the Movies that were released in year 2000

```
In [55]: data['Year']=data['Date_N'].dt.year # add a new column year
```

```
In [56]: data.head(2)
```

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	Date_N	Year
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 ...	2020-08-14	2020.0
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...	2016-12-23	2016.0

## Filtering

```
In [57]: data[(data['Category'] == 'Movie')&(data['Year']==2000)]
```

```
Out[57]: Show_Id Category Title Director Cast Country Release_Date Rating Duration Type Description Date_N Year
```

```
In [59]: data[(data['Category'] == 'Movie')&(data['Year']==2020)]
```

Out[59]:	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	Date_N	Year	
	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	2020.0
	6	s7	Movie	122	Yasir Al Yasiri	Amina Khalil, Ahmed Dawood, Tarek Lofti, Ahmed...	Egypt	June 1, 2020	TV-MA	95 min	Horror Movies, International Movies	After an awful accident, a couple admitted to ...	2020-06-01	2020.0
	14	s15	Movie	3022	John Suits	Omar Epps, Kate Walsh, Miranda Cosgrove, Angus...	United States	March 19, 2020	R	91 min	Independent Movies, Sci-Fi & Fantasy, Thrillers	Stranded when the Earth is suddenly destroyed ...	2020-03-19	2020.0
	27	s28	Movie	#Alive	Cho Il	Yoo Ah-in, Park Shin-hye	South Korea	September 8, 2020	TV-MA	99 min	Horror Movies, International Movies, Thrillers	As a grisly virus rampages a city, a lone man ...	2020-09-08	2020.0
	28	s29	Movie	#AnneFrank - Parallel Stories	Sabina Fedeli, Anna Migotto	Helen Mirren, Gengher Gatti	Italy	July 1, 2020	TV-14	95 min	Documentaries, International Movies	Through her diary, Anne Frank's story is retold...	2020-07-01	2020.0
...	...	...	...	...	...	...	...	...	...	...	...	...	...	
7762	s7761	Movie	Zaki Chan	Wael Ihsan	Ahmed Helmy, Yasmin Abdulaziz, Hassan Hosny, H...	Egypt	May 19, 2020	TV-PG	109 min	Comedies, International Movies, Romantic Movies	An unqualified young man has his work cut out ...	2020-05-19	2020.0	
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	2020.0	
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 ...	2020-10-19	2020.0	
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...	2020-09-25	2020.0	
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...	2020-03-01	2020.0	

1312 rows × 13 columns

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

## Filtering

```
In [62]: data[ (data['Category'] == 'TV Show') & (data['Country'] == 'India')]
```

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	Date_N	Year
86	s87	TV Show	21 Sarfarosh: Saragarhi 1897	NaN	Luke Kenny, Mohit Raina, Mukul Dev	India	December 1, 2018	TV-14	1 Season	International TV Shows, TV Dramas	In one of history's greatest last stands, a ba...	2018-12-01	2018.0
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	2019.0
340	s341	TV Show	Agent Raghav	NaN	Sharad Kelkar, Aahana Kumra, Mahesh Manjrekar,...	India	April 15, 2017	TV-14	1 Season	Crime TV Shows, International TV Shows, TV Act...	A mix of brilliance, erudition and skill enabl...	2017-04-15	2017.0
364	s365	TV Show	Akbar Birbal	NaN	Kiku Sharda, Vishal Kotian, Delnaaz Irani	India	March 31, 2020	TV-G	1 Season	Kids' TV, TV Comedies, TV Dramas	From battles of wit to fights for justice, Emp...	2020-03-31	2020.0
533	s534	TV Show	Anjaan: Rural Myths	NaN	NaN	India	December 15, 2018	TV-14	1 Season	International TV Shows, TV Horror, TV Thrillers	Spine-chilling stories of malevolent spirits u...	2018-12-15	2018.0
...	...	...	...	...	...		...	...	...		...	...	...
6249	s6249	TV Show	The Creative Indians	NaN	NaN	India	August 24, 2020	TV-MA	2 Seasons	Docuseries, International TV Shows	From chefs and comedians to filmmakers and fas...	2020-08-24	2020.0
6400	s6399	TV Show	The Golden Years with Javed Akhtar	NaN	NaN	India	June 1, 2017	TV-G	1 Season	Docuseries, International TV Shows	Writer, poet and lyricist Javed Akhtar hosts t...	2017-06-01	2017.0
6469	s6468	TV Show	The House That Made Me	NaN	Vinay Pathak	India	March 31, 2017	TV-PG	3 Seasons	International TV Shows, Reality TV	With host Vinay Pathak, Indian celebrities ret...	2017-03-31	2017.0
7294	s7293	TV Show	Typewriter	NaN	Aarna Sharma, Aaryansh Malviya, Mikail Gandhi,...	India	July 19, 2019	TV-MA	1 Season	International TV Shows, TV Horror, TV Mysteries	Three young friends in Goa plan to search an o...	2019-07-19	2019.0
7705	s7704	TV Show	Yeh Meri Family	NaN	Vishesh Bansal, Mona Singh, Akarsh Khurana, Ah...	India	August 31, 2018	TV-PG	1 Season	International TV Shows, TV Comedies	In the summer of 1998, middle child Harshu bal...	2018-08-31	2018.0

71 rows × 13 columns

```
In [63]: # to show only titles
data[ (data['Category'] == 'TV Show') & (data['Country'] == 'India')]['Title']
```

```
Out[63]: 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
```

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

### value\_counts()

```
In [64]: data['Director'].value_counts()
```

```
Out[64]: Raúl Campos, Jan Suter    18
Marcus Raboy                   16
Jay Karas                      14
Cathy Garcia-Molina             13
Jay Chapman                     12
...
Vibhu Virender Puri              1
Lucien Jean-Baptiste             1
Jason Krawczyk                   1
Quinn Lasher                     1
Sam Dunn                         1
Name: Director, Length: 4050, dtype: int64
```

In [67]: `data['Director'].value_counts().head(10)`

Out[67]:

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	

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

In [68]: `data.head(1) #column dekhne ke Liye`

Out[68]:

Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	Date_N	Year	
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 ...	2020-08-14	2020.0

In [73]: `data[(data['Category']=='Movie')&(data['Type']=='Comedies')|(data['Country']=='United Kingdom')]`

Out[73]:

Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	Date_N	Year	
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...	2018-05-16	2018.0
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...	2017-09-08	2017.0
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...	2019-11-01	2019.0
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...	2021-01-01	2021.0
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...	2018-12-20	2018.0
...	...	...	...	...	...	...	...	...	...	...	...	...	...
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...	2017-08-01	2017.0
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...	2019-02-01	2019.0
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...	2020-03-18	2020.0
7725	s7724	Movie	You Can Tulu	James Brown	Lily O'Regan, Jeannettsy Enriquez Borges, Joel...	United Kingdom	December 31, 2017	TV-G	87 min	Children & Family Movies	A gifted young ballet dancer struggles to find...	2017-12-31	2017.0
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...	2020-09-03	2020.0

485 rows × 13 columns

## In how many movies/shows, Tom Cruise was cast ?

In [80]: `data[data['Cast']=='Tom Cruise'] # no row where the cast is only tom cruise`

Out[80]:

Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	Date_N	Year
---------	----------	-------	----------	------	---------	--------------	--------	----------	------	-------------	--------	------

```
In [77]: #str.contains
data[data['Cast'].str.contains('Tom Cruise')] # str.contains() show error for null values so we will remove null values
```

-----  
**ValueError** Traceback (most recent call last)  
Cell In[77], line 2  
  1 #m2 str.contains  
----> 2 data[data['Cast'].str.contains('Tom Cruise')]

```
File C:\ProgramData\anaconda3\lib\site-packages\pandas\core\frame.py:3797, in DataFrame.__getitem__(self, key)
3794     return self.where(key)
3796 # Do we have a (boolean) 1d indexer?
-> 3797 if com.is_bool_indexer(key):
3798     return self._getitem_bool_array(key)
3800 # We are left with two options: a single key, and a collection of keys,
3801 # We interpret tuples as collections only for non-MultiIndex
```

```
File C:\ProgramData\anaconda3\lib\site-packages\pandas\core\common.py:135, in is_bool_indexer(key)
131     na_msg = "Cannot mask with non-boolean array containing NA / NaN values"
132     if lib.infer_dtype(key_array) == "boolean" and isna(key_array).any():
133         # Don't raise on e.g. ["A", "B", np.nan], see
134         # _test_loc_getitem_list_of_labels_categoricalindex_with_na
--> 135     raise ValueError(na_msg)
136     return False
137 return True
```

**ValueError:** Cannot mask with non-boolean array containing NA / NaN values

```
In [78]: data_new=data.dropna() # it drops the rows that contains all or any missing values
```

```
In [79]: data_new[data_new['Cast'].str.contains('Tom Cruise')]
```

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	Date_N	Year
3860	s3861	Movie	Magnolia	Paul Thomas Anderson	Jeremy Blackman, Tom Cruise, Melinda Dillon, A...	United States	January 1, 2020	R	189 min	Dramas, Independent Movies	Through chance, human action, past history and...	2020-01-01	2020.0
5071	s5071	Movie	Rain Man	Barry Levinson	Dustin Hoffman, Tom Cruise, Valeria Golino, Ge...	United States	July 1, 2019	R	134 min	Classic Movies, Dramas	A fast-talking yuppie is forced to slow down w...	2019-07-01	2019.0

## What are the different Ratings defined by Netflix ?

### nunique()

```
In [83]: data['Rating'].nunique()
```

```
Out[83]: 14
```

### unique()

```
In [84]: data['Rating'].unique()
```

```
Out[84]: 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)
```

## 9.1) How many Movies got the 'TV-14' rating, in Canada ?

```
In [87]: data[(data['Category']=='Movie') & (data['Rating']=='TV-14') & (data['Country']=='Canada')]
```

Out[87]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	Date_N	Year
30	s31	Movie	#cats_the_mewvie	Michael Margolis	NaN	Canada	February 5, 2020	TV-14	90 min	Documentaries, International Movies	This pawesome documentary explores how our fel...	2020-02-05	2020.0
34	s35	Movie	#Roxy	Michael Kennedy	Jake Short, Sarah Fisher, Booboo Stewart, Dann...	Canada	April 10, 2019	TV-14	105 min	Comedies, Romantic Movies	A teenage hacker with a huge nose helps a cool...	2019-04-10	2019.0
608	s609	Movie	At First Light	Jason Stone	Stefanie Scott, Theodore Pellerin, Percy Hynes...	Canada	December 27, 2018	TV-14	91 min	Dramas, Sci-Fi & Fantasy	After mysterious lights imbue her with extraor...	2018-12-27	2018.0
1506	s1507	Movie	Counterfeiting in Suburbia	Jason Bourque	Sarah Butler, Larissa Albuquerque, Kayla Walla...	Canada	July 1, 2018	TV-14	88 min	Dramas, Thrillers	Two teenagers print counterfeit money in their...	2018-07-01	2018.0
3713	s3714	Movie	Long Time Running	Jennifer Baichwal, Nicholas de Pencier	Gord Downie, Paul Langlois, Gord Sinclair, Rob...	Canada	November 12, 2017	TV-14	96 min	Documentaries, International Movies, Music & M...	This documentary follows the 2016 tour of belo...	2017-11-12	2017.0
3956	s3957	Movie	Martin Matte: La vie, la mort...eh la la..!	Jean-François Blais	Martin Matte	Canada	October 14, 2019	TV-14	62 min	Stand-Up Comedy	Quebecois comedy star Martin Matte serves up e...	2019-10-14	2019.0
5336	s5336	Movie	Sadie's Last Days on Earth	Michael Seater	Morgan Taylor Campbell, Clark Backo, Ricardo H...	Canada	August 22, 2017	TV-14	94 min	Comedies, Sci-Fi & Fantasy	High schooler Sadie Mitchell believes the worl...	2017-08-22	2017.0
5393	s5393	Movie	Sardaar ji	Rohit Jugraj	Diljit Dosanjh, Neetu Bajwa, Mandy Takhar, Jas...	Canada	December 1, 2017	TV-14	140 min	Comedies, International Movies, Music & Musicals	When a palatial wedding venue turns out to be ...	2017-12-01	2017.0
6062	s6062	Movie	The Accountant of Auschwitz	Matthew Shoychet	NaN	Canada	July 1, 2019	TV-14	78 min	Documentaries, International Movies	Decades after WWII, a former SS officer stands...	2019-07-01	2019.0
7025	s7024	Movie	The Wrong Babysitter	George Mendeluk	Daphne Zuniga, Seann Gallagher, Lisa Marie Car...	Canada	June 18, 2019	TV-14	89 min	Thrillers	A widow searches for her missing teenage daugh...	2019-06-18	2019.0
7041	s7040	Movie	There's Something in the Water	Ellen Page, Ian Daniel	Ellen Page	Canada	March 27, 2020	TV-14	72 min	Documentaries, International Movies	This documentary spotlights the struggle of mi...	2020-03-27	2020.0

```
In [89]: data[(data['Category']=='Movie') & (data['Rating']=='TV-14') & (data['Country']=='Canada')].shape
```

Out[89]: (11, 13)

## 9.2) How many TV Shows got the 'R' rating, after year 2018 ?

```
In [91]: data[(data['Category']=='TV Show')&(data['Rating']=='R')& (data['Year'] > 2018)]
```

Out[91]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	Date_N	Year
6437	s6436	TV Show	The Hateful Eight: Extended Version	Quentin Tarantino	Samuel L. Jackson, Kurt Russell, Jennifer Jaso...	NaN	April 25, 2019	R	1 Season	TV Shows	Trapped at a stagecoach stop as a storm rages ...	2019-04-25	2019.0

## 10) What is the maximum duration of a Movie>Show on Netflix ?

```
In [93]: data['Duration'].unique()
```

```
Out[93]: 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 [95]: data.Duration.dtypes # data in object format convert it into numeric format
```

```
Out[95]: dtype('O')
```

## str.split()

```
In [96]: data[['Minute', 'Unit']] = data['Duration'].str.split(' ', expand=True)
```

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

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	Date_N	Year	Minute	Unit
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 ...	2020-08-14	2020.0	4	Seasons
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	2016.0	93	min

## max()

```
In [100]: data['Minute'].max() # 99 minutes is maximum duration
```

```
Out[100]: '99'
```

```
In [101]: data['Minute'].min()
```

```
Out[101]: '1'
```

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

```
In [102]: data_tvshow = data[data['Category'] == 'TV Show']
```

```
In [103]: data_tvshow.head(2) # show only category TV show
```

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	Date_N	Year	Minute	Unit
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 ...	2020-08-14	2020.0	4	Seasons
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 treatment...	2017-07-01	2017.0	1	Season

```
In [105]: data_tvshow.Country.value_counts()
```

```
Out[105]: 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: Country, Length: 183, dtype: int64
```

```
In [106]: data_tvshow.Country.value_counts().head(1)
```

```
Out[106]: United States    705
Name: Country, dtype: int64
```

## 12) How can we sort the dataset by Year ?

```
In [107]: data.sort_values(by='Year')
```

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	Date_N	Year	Minute	Unit
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	Dramas, Independent Movies, Thrillers	While covering a story in New York City, a Sea...	2008-01-01	2008.0	81	min
1765	s1766	TV Show	Dinner for Five	Nan	Nan	United States	February 4, 2008	TV-MA	1 Season	Stand-Up Comedy & Talk Shows	In each episode, four celebrities join host Jo...	2008-02-04	2008.0	1	Season
3248	s3249	Movie	Just Another Love Story	Ole Bornedal	Anders W. Berthelsen, Rebecka Hemse, Nikolaj L...	Denmark	May 5, 2009	TV-MA	104 min	Dramas, International Movies	When he causes a car accident that leaves a yo...	2009-05-05	2009.0	104	min
5766	s5766	Movie	Splatter	Joe Dante	Corey Feldman, Tony Todd, Tara Leigh, Erin Way...	United States	November 18, 2009	TV-MA	29 min	Horror Movies	After committing suicide, a washed-up rocker r...	2009-11-18	2009.0	29	min
3840	s3841	Movie	Mad Ron's Previews from Hell	Jim Monaco	Nick Pawlowski, Jordu Schell, Jay Kushwaha, Michael...	United States	November 1, 2010	NR	84 min	Cult Movies, Horror Movies	This collection cherry-picks trailers, forgott...	2010-11-01	2010.0	84	min
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3374	s3375	TV Show	Kikoriki	Nan	Igor Dmitriev	Nan	Nan	TV-Y	2 Seasons	Kids' TV	A wacky rabbit and his gang of animal pals hav...	NaT	NaN	2	Seasons
3492	s3493	TV Show	La Familia P. Luche	Nan	Eugenio Derbez, Consuelo Duval, Luis Manuel Av...	United States	Nan	TV-14	3 Seasons	International TV Shows, Spanish-Language TV Sh...	This irreverent sitcom features Ludovico, Feder...	NaT	NaN	3	Seasons
3946	s3947	TV Show	Maron	Nan	Marc Maron, Judd Hirsch, Josh Brenner, Nora Zeh...	United States	Nan	TV-MA	4 Seasons	TV Comedies	Marc Maron stars as Marc Maron, who interviews...	NaT	NaN	4	Seasons
5138	s5138	TV Show	Red vs. Blue	Nan	Burnie Burns, Jason Saldana, Gustavo Sorola, G...	United States	Nan	NR	13 Seasons	TV Action & Adventure, TV Comedies, TV Sci-Fi ...	This parody of first-person shooter games, mil...	NaT	NaN	13	Seasons
6066	s6066	TV Show	The Adventures of Figaro Pho	Nan	Luke Jurevicius, Craig Behenna, Charlotte Hamlin...	Australia	Nan	TV-Y7	2 Seasons	Kids' TV, TV Comedies	Imagine your worst fears, then multiply them: ...	NaT	NaN	2	Seasons

7787 rows × 15 columns

```
In [110]: data.sort_values(by='Year', ascending=False)
```

Out[110]:	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	Date_N	Year	Minute	Unit	
	5564	s5564	Movie	Sherlock Holmes	Guy Ritchie	Robert Downey Jr., Jude Law, Rachel McAdams, M...	United States, Germany, United Kingdom, Australia	January 1, 2021	PG-13	128 min	Action & Adventure, Comedies	The game is afoot for an eccentric detective w...	2021-01-01	2021.0	128	min
	5919	s5919	Movie	Surf's Up	Ash Brannon, Chris Buck	Shia LaBeouf, Jeff Bridges, Zooey Deschanel, J...	United States	January 1, 2021	PG	86 min	Children & Family Movies, Comedies, Sports Movies	This Oscar-nominated animated comedy goes behi...	2021-01-01	2021.0	86	min
	980	s981	TV Show	Bling Empire	Nan	Nan	January 15, 2021	TV-MA	1 Season	Reality TV	Follow LA's wildly wealthy Asian and Asian Amer...	2021-01-15	2021.0	1	Season	
	5955	s5955	Movie	Taare Zameen Par	Aamir Khan	Aamir Khan, Darsheel Safary, Tanay Chheda, Tis...	India	January 10, 2021	PG	162 min	Dramas, International Movies	When daydreamer Ishaan is sent to boarding sch...	2021-01-10	2021.0	162	min
	366	s367	Movie	Al acecho	Francisco D'Eufemia	Rodrigo de la Serna, Belén Blanco, Walter Jak...	Nan	January 12, 2021	TV-MA	81 min	International Movies, Thrillers	Looking for a fresh start, a park ranger gets ...	2021-01-12	2021.0	81	min
	3374	s3375	TV Show	Kikoriki	Nan	Igor Dmitriev	Nan	Nan	TV-Y	2 Seasons	Kids' TV	A wacky rabbit and his gang of animal pals hav...	NaT	NaN	2	Seasons
	3492	s3493	TV Show	La Familia P. Luche	Nan	Eugenio Derbez, Consuelo Duval, Luis Manuel Av...	United States	Nan	TV-14	3 Seasons	International TV Shows, Spanish-Language TV Sh...	This irreverent sitcom featuers Ludovico, Feder...	NaT	NaN	3	Seasons
	3946	s3947	TV Show	Maron	Nan	Marc Maron, Judd Hirsch, Josh Brener, Nora Zeh...	United States	Nan	TV-MA	4 Seasons	TV Comedies	Marc Maron stars as Marc Maron, who interviews...	NaT	NaN	4	Seasons
	5138	s5138	TV Show	Red vs. Blue	Nan	Burnie Burns, Jason Saldana, Gustavo Sorola, G...	United States	Nan	NR	13 Seasons	TV Action & Adventure, TV Comedies, TV Sci-Fi ...	This parody of first-person shooter games, mil...	NaT	NaN	13	Seasons
	6066	s6066	TV Show	The Adventures of Figaro Pho	Nan	Luke Jurevicius, Craig Behenna, Charlotte Ham...	Australia	Nan	TV-Y7	2 Seasons	Kids' TV, TV Comedies	Imagine your worst fears, then multiply them: ...	NaT	NaN	2	Seasons

7787 rows × 15 columns

### 13) Find all the instances where:

Category is 'Movie' and Type is 'Dramas' 

or

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

In [111]:	data[((data['Category']=='Movie') &(data['Type']=='Dramas'))   ((data['Category']=='TV Show') &(data['Type']=='Kids' TV')) ]														
Out[111]:	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	Date_N	Year	Minute	Unit
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	2020.0	123	min
7	s8	Movie	187	Kevin Reynolds	Samuel L. Jackson, John Heard, Kelly Rowan, Cl...	United States	November 1, 2019	R	119 min	Dramas	After one of his high school students attacks ...	2019-11-01	2019.0	119	min
111	s112	TV Show	44 Cats	NaN	Sarah Natochenny, Suzy Myers, Simona Berman, E...	Italy	October 1, 2020	TV-Y7	2 Seasons	Kids' TV	Paw-esome tales abound when singing furry frie...	2020-10-01	2020.0	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	Dramas	A ruthless corporate headhunter battles his ri...	2019-12-15	2019.0	110	min
232	s233	Movie	A Stoning in Fulham County	Larry Elkann	Ken Olin, Jill Eikenberry, Maureen Mueller, Gr...	United States	October 1, 2011	TV-14	95 min	Dramas	After reckless teens kill an Amish child, a pr...	2011-10-01	2011.0	95	min
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7668	s7667	TV Show	World of Winx	Iginio Straffi	Haven Paschall, Alysha Deslorieux, Jessica Pad...	Italy, United States	June 16, 2017	TV-Y7	2 Seasons	Kids' TV	The reality show "WOW!" engages the Winx in th...	2017-06-16	2017.0	2	Seasons
7717	s7716	TV Show	Yoko	NaN	Eileen Stevens, Alyson Leigh Rosenfeld, Sarah ...	NaN	June 23, 2018	TV-Y	1 Season	Kids' TV	Friends Mai, Oto and Vik's games at the park b...	2018-06-23	2018.0	1	Season
7719	s7718	TV Show	YOM	NaN	Sairaj Devyanri, Ketan Singh, Mayur ...	NaN	June 7, 2018	TV-Y7	1 Season	Kids' TV	With the mind of a human being, and the body o...	2018-06-07	2018.0	1	Season
7758	s7757	TV Show	Z4	NaN	Apollo Costa, Gabriel Santana, Matheus Lustosa...	Brazil	February 22, 2019	TV-PG	2 Seasons	Kids' TV	Fading music biz veteran Zé realizes he has ju...	2019-02-22	2019.0	2	Seasons
7761	s7760	TV Show	Zak Storm	NaN	Michael Johnston, Jessica Gee-George, Christin...	United States, France, South Korea, Indonesia	September 13, 2018	TV-Y7	3 Seasons	Kids' TV	Teen surfer Zak Storm is mysteriously transpor...	2018-09-13	2018.0	3	Seasons

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