

# netflix-dataset

January 31, 2024

## 0.1 NETFLIX DATASET

This Netflix Dataset has information about the TV shows and Movies available on Netflix till 2021. This Dataset is collected from Flixable which is a third-party Netflix search engine, and available on Kaggle website for free.

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

```
[2]: data = pd.read_csv('D:/data analystics/Python for data analytics/Python_
↳Projects/Netflix Dataset/file.csv')
```

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

```
[3]:  Show_Id Category  Title          Director \
0      s1  TV Show    3%              NaN
1      s2   Movie  07:19  Jorge Michel Grau
2      s3   Movie  23:59    Gilbert Chan
3      s4   Movie     9      Shane Acker
4      s5   Movie    21    Robert Luketic
```

```
                                Cast          Country \
0  João Miguel, Bianca Comparato, Michel Gomes, R...  Brazil
1  Demián Bichir, Héctor Bonilla, Oscar Serrano, ...  Mexico
2  Tedd Chan, Stella Chung, Henley Hii, Lawrence ...  Singapore
3  Elijah Wood, John C. Reilly, Jennifer Connelly...  United States
4  Jim Sturgess, Kevin Spacey, Kate Bosworth, Aar...  United States
```

```
      Release_Date Rating  Duration \
0  August 14, 2020  TV-MA  4 Seasons
1  December 23, 2016  TV-MA    93 min
2  December 20, 2018    R    78 min
3  November 16, 2017  PG-13    80 min
4   January 1, 2020  PG-13   123 min
```

```
                                Type \
0  International TV Shows, TV Dramas, TV Sci-Fi &...
1                                Dramas, International Movies
2                                Horror Movies, International Movies
```

```

3 Action & Adventure, Independent Movies, Sci-Fi...
4                                     Dramas

```

```

                                Description
0 In a future where the elite inhabit an island ...
1 After a devastating earthquake hits Mexico Cit...
2 When an army recruit is found dead, his fellow...
3 In a postapocalyptic world, rag-doll robots hi...
4 A brilliant group of students become card-coun...

```

```
[4]: data.tail()
```

```

[4]:      Show_Id Category                                Title      Director \
7784    s7783    Movie                                Zozo    Josef Fares
7785    s7784    Movie                                Zubaan    Mozez Singh
7786    s7785    Movie                                Zulu Man in Japan    NaN
7787    s7786    TV Show                                Zumbo's Just Desserts    NaN
7788    s7787    Movie  ZZ TOP: THAT LITTLE OL' BAND FROM TEXAS    Sam Dunn

```

```

                                Cast \
7784    Imad Creidi, Antoinette Turk, Elias Gergi, Car...
7785    Vicky Kaushal, Sarah-Jane Dias, Raaghav Chanan...
7786                                           Nasty C
7787                                Adriano Zumbo, Rachel Khoo
7788                                           NaN

```

```

                                Country      Release_Date \
7784    Sweden, Czech Republic, United Kingdom, Denmar...    October 19, 2020
7785                                           India      March 2, 2019
7786                                           NaN    September 25, 2020
7787                                Australia    October 31, 2020
7788                                United Kingdom, Canada, United States    March 1, 2020

```

```

      Rating  Duration                                Type \
7784    TV-MA    99 min                                Dramas, International Movies
7785    TV-14    111 min    Dramas, International Movies, Music & Musicals
7786    TV-MA    44 min    Documentaries, International Movies, Music & M...
7787    TV-PG    1 Season    International TV Shows, Reality TV
7788    TV-MA    90 min    Documentaries, Music & Musicals

```

```

                                Description
7784    When Lebanon's Civil War deprives Zozo of his ...
7785    A scrappy but poor boy worms his way into a ty...
7786    In this documentary, South African rapper Nast...
7787    Dessert wizard Adriano Zumbo looks for the nex...
7788    This documentary delves into the mystique behi...

```

```
[5]: data.shape
```

```
[5]: (7789, 11)
```

```
[6]: data.size
```

```
[6]: 85679
```

```
[7]: data.columns
```

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

```
[8]: data.dtypes
```

```
[8]: 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
```

```
[9]: 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
```

### 0.1.1 Task.1. Is there any duplicate Record in this dataset? if yes, then remove the duplicate records

```
[10]: data[data.duplicated()]
```

```
[10]:
```

	Show_Id	Category	Title	Director	\	Cast	Country	\	Release_Date	Rating	Duration	\	Type	\	Description
6300	s684	Movie	Backfire	Dave Patten					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					September 4, 2020	TV-MA	94 min		Comedies, Dramas, Independent Movies		A disillusioned security guard transforms into...

```
[11]: data.drop_duplicates(inplace= True)
```

```
[12]: data[data.duplicated()]
```

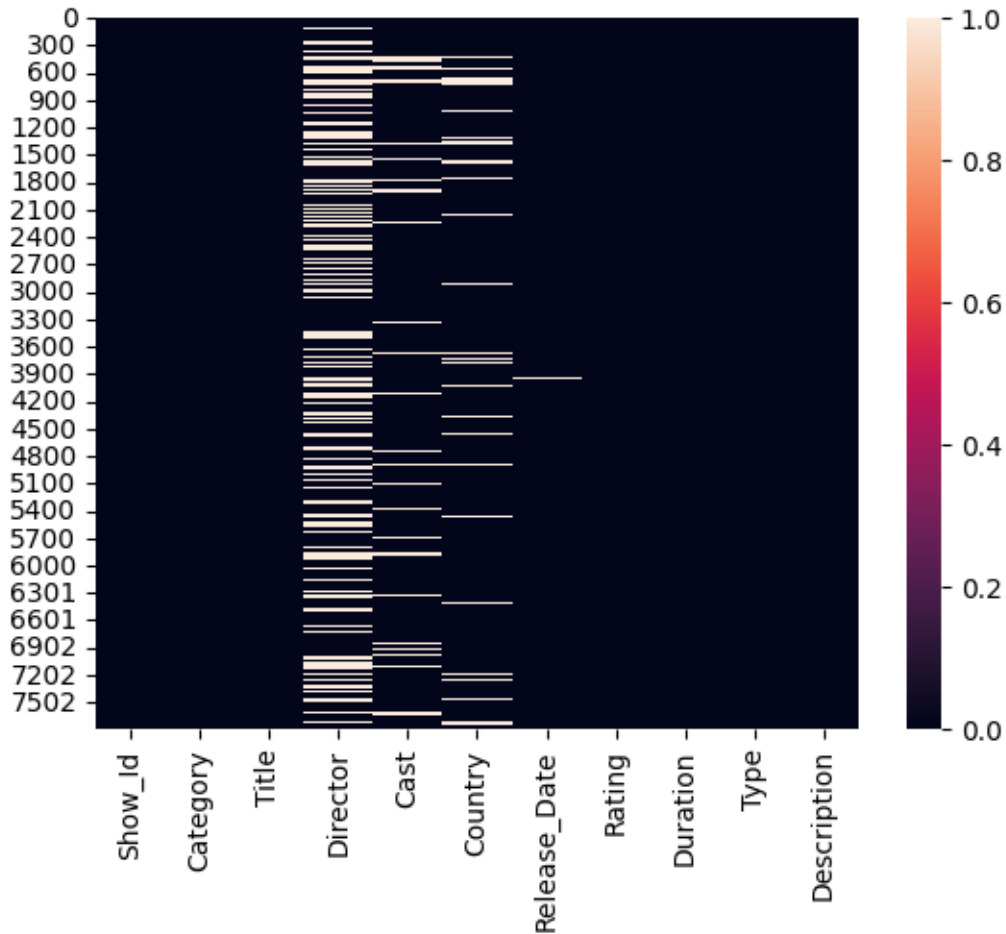
```
[12]: Empty DataFrame
Columns: [Show_Id, Category, Title, Director, Cast, Country, Release_Date,
Rating, Duration, Type, Description]
Index: []
```

### 0.1.2 Task.2. Is there any Null Values present i any column? show with Heatmap

```
[13]: import seaborn as sns
```

```
[14]: sns.heatmap(data.isnull())
```

```
[14]: <Axes: >
```



0.1.3 Question.1. For 'House of Cards', what is the show ID and who is the Director of this show?

```
[15]: data[data['Title'].isin(['House of Cards'])]
```

```
[15]:   Show_Id Category      Title \
2832   s2833   TV Show House of Cards

                                     Director \
2832 Robin Wright, David Fincher, Gerald McRaney, J...

                                     Cast      Country \
2832 Kevin Spacey, Robin Wright, Kate Mara, Corey S... United States

      Release_Date Rating  Duration      Type \
2832 November 2, 2018 TV-MA  6 Seasons TV Dramas, TV Thrillers
```

	Description
2832	A ruthless politician will stop at nothing to ...

#### 0.1.4 Question.2. In which year Highest number of TV shows & Movies were released ? Show with Bar Graph.

```
[16]: data.dtypes
```

```
[16]: 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
```

```
[18]: data['Date_N'] = pd.to_datetime(data['Release_Date'], format='%B %d, %Y',
    ↪errors='coerce')
```

```
[19]: data.head(2)
```

```
[19]: Show_Id Category  Title      Director \
0      s1  TV Show    3%           NaN
1      s2   Movie  07:19  Jorge Michel Grau

                                     Cast Country \
0  João Miguel, Bianca Comparato, Michel Gomes, R...  Brazil
1  Demián Bichir, Héctor Bonilla, Oscar Serrano, ...  Mexico

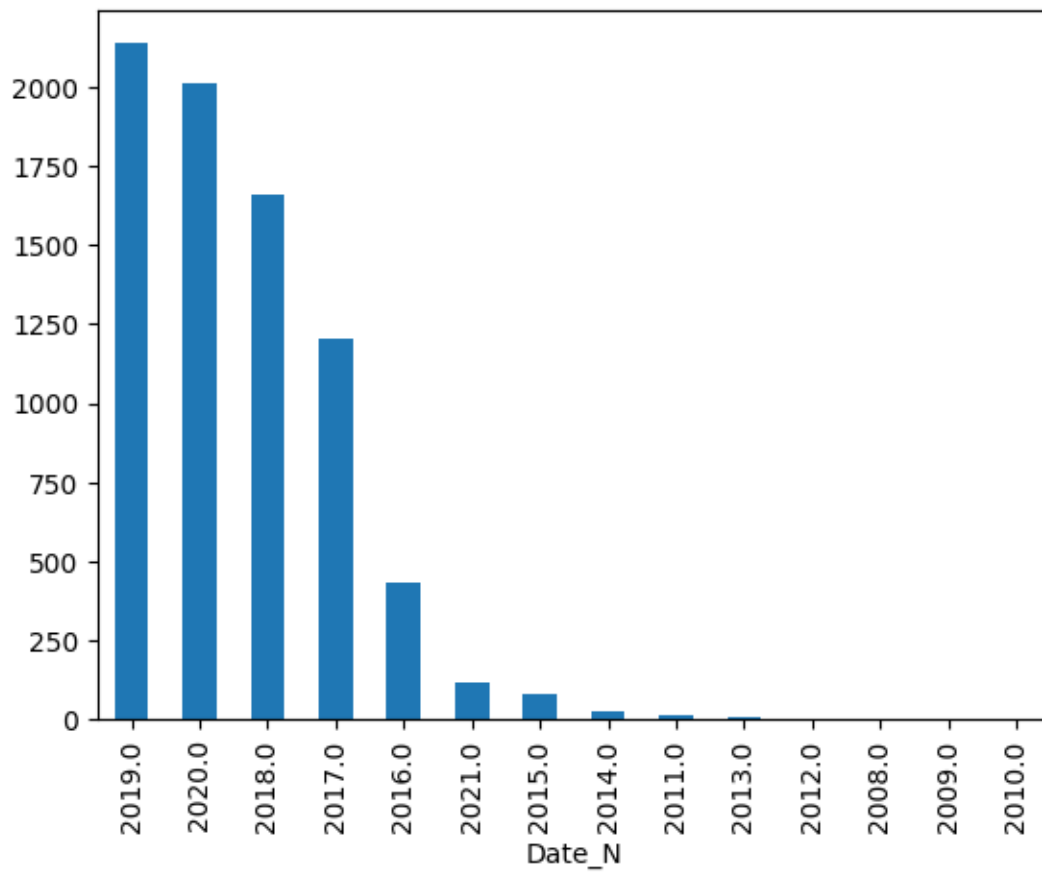
      Release_Date Rating  Duration \
0  August 14, 2020  TV-MA  4 Seasons
1  December 23, 2016  TV-MA    93 min

                                     Type \
0  International TV Shows, TV Dramas, TV Sci-Fi &...
1                Dramas, International Movies

                                     Description      Date_N
0  In a future where the elite inhabit an island ...  2020-08-14
1  After a devastating earthquake hits Mexico Cit...  2016-12-23
```

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

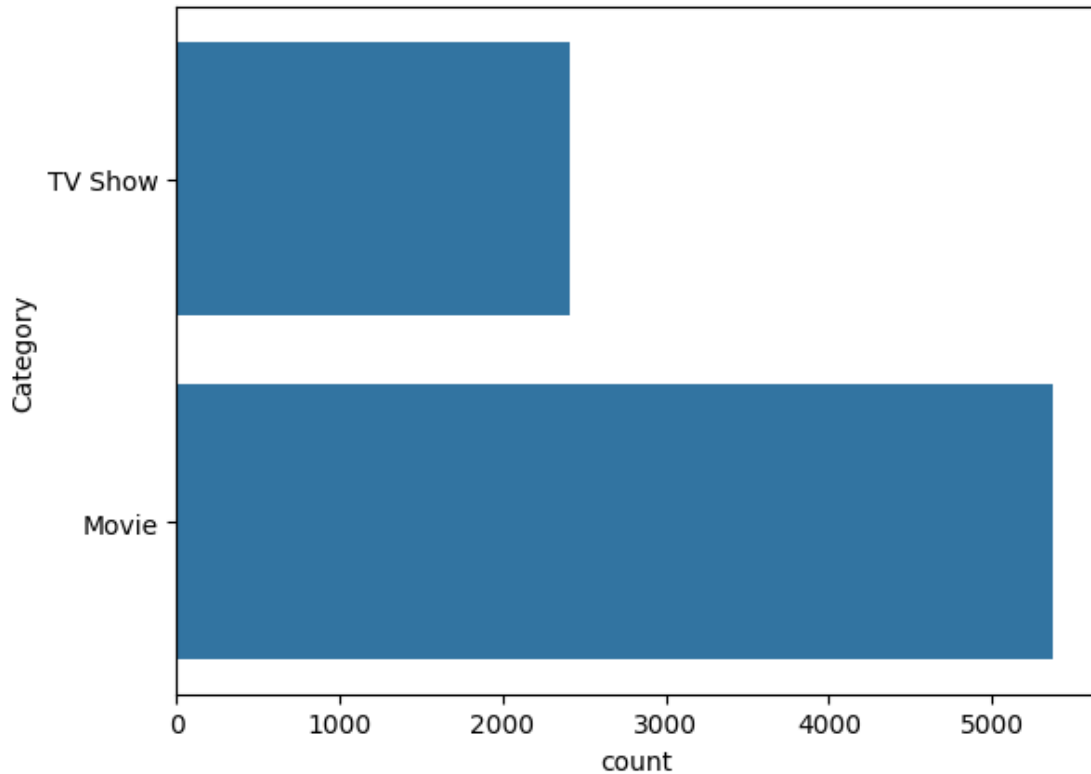
[20]: <Axes: xlabel='Date\_N'>



**0.1.5 Question.3. How many Movies & TV Shows are in the dataset? Show with Bar graph**

```
[21]: sns.countplot(data['Category'])
```

[21]: <Axes: xlabel='count', ylabel='Category'>



0.1.6 Question.4. Show all the movies that were released in year 2020.

```
[23]: data['Year'] = data['Date_N'].dt.year
```

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

```
[24]:
```

	Show_Id	Category	Title \
4	s5	Movie	21
6	s7	Movie	122
14	s15	Movie	3022
27	s28	Movie	#Alive
28	s29	Movie	#AnneFrank - Parallel Stories
...	...	...	...
7762	s7761	Movie	Zaki Chan
7783	s7782	Movie	Zoom
7784	s7783	Movie	Zozo
7786	s7785	Movie	Zulu Man in Japan
7788	s7787	Movie	ZZ TOP: THAT LITTLE OL' BAND FROM TEXAS

	Director \
4	Robert Luketic



6	Yasir Al Yasiri
14	John Suits
27	Cho Il
28	Sabina Fedeli, Anna Migotto
...	...
7762	Wael Ihsan
7783	Peter Hewitt
7784	Josef Fares
7786	NaN
7788	Sam Dunn

	Cast \
4	Jim Sturgess, Kevin Spacey, Kate Bosworth, Aar...
6	Amina Khalil, Ahmed Dawood, Tarek Lotfy, Ahmed...
14	Omar Epps, Kate Walsh, Miranda Cosgrove, Angus...
27	Yoo Ah-in, Park Shin-hye
28	Helen Mirren, Gengher Gatti
...	...
7762	Ahmed Helmy, Yasmin Abdulaziz, Hassan Hosny, H...
7783	Tim Allen, Courteney Cox, Chevy Chase, Kate Ma...
7784	Imad Creidi, Antoinette Turk, Elias Gergi, Car...
7786	Nasty C
7788	NaN

	Country	Release_Date \
4	United States	January 1, 2020
6	Egypt	June 1, 2020
14	United States	March 19, 2020
27	South Korea	September 8, 2020
28	Italy	July 1, 2020
...	...	...
7762	Egypt	May 19, 2020
7783	United States	January 11, 2020
7784	Sweden, Czech Republic, United Kingdom, Denmar...	October 19, 2020
7786	NaN	September 25, 2020
7788	United Kingdom, Canada, United States	March 1, 2020

	Rating	Duration	Type \
4	PG-13	123 min	Dramas
6	TV-MA	95 min	Horror Movies, International Movies
14	R	91 min	Independent Movies, Sci-Fi & Fantasy, Thrillers
27	TV-MA	99 min	Horror Movies, International Movies, Thrillers
28	TV-14	95 min	Documentaries, International Movies
...	...	...	...
7762	TV-PG	109 min	Comedies, International Movies, Romantic Movies
7783	PG	88 min	Children & Family Movies, Comedies
7784	TV-MA	99 min	Dramas, International Movies

```

7786 TV-MA    44 min Documentaries, International Movies, Music & M...
7788 TV-MA    90 min Documentaries, Music & Musicals

```

```

                                Description      Date_N      Year
4      A brilliant group of students become card-coun... 2020-01-01  2020.0
6      After an awful accident, a couple admitted to ... 2020-06-01  2020.0
14     Stranded when the Earth is suddenly destroyed ... 2020-03-19  2020.0
27     As a grisly virus rampages a city, a lone man ... 2020-09-08  2020.0
28     Through her diary, Anne Frank's story is retol... 2020-07-01  2020.0
...
7762   An unqualified young man has his work cut out ... 2020-05-19  2020.0
7783   Dragged from civilian life, a former superhero... 2020-01-11  2020.0
7784   When Lebanon's Civil War deprives Zozo of his ... 2020-10-19  2020.0
7786   In this documentary, South African rapper Nast... 2020-09-25  2020.0
7788   This documentary delves into the mystique behi... 2020-03-01  2020.0

```

```
[1312 rows x 13 columns]
```

### 0.1.7 Question.5. Show only the Titles of all TV shows that were released in India only.

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

```

[27]: 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

```

### 0.1.8 Question.6. Show Top 10 Directors, who gave the Highest Number of TV Shows & Movies to Netflix?

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

```

[28]: Director
Raúl Campos, Jan Suter      18
Marcus Raboy                16
Jay Karas                   14
Cathy Garcia-Molina         13

```

```

Jay Chapman          12
Youssef Chahine      12
Martin Scorsese       12
Steven Spielberg     10
David Dhawan          9
Hakan Algül          8
Name: count, dtype: int64

```

### 0.1.9 Question.7. Show all the Records, where ‘Category is Movie and Type is Comedies’ or ‘Country is United Kingdom’.

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

```
[29]:
```

	Show_Id	Category	Title	Director	\
19	s20	Movie	'89	NaN	
33	s34	Movie	#realityhigh	Fernando Lebrija	
58	s59	TV Show	100% Hotter	NaN	
72	s73	Movie	17 Again	Burr Steers	
82	s83	Movie	2036 Origin Unknown	Hasraf Dulull	
...	...	...	...	...	
7670	s7669	TV Show	World War II in Colour	NaN	
7671	s7670	TV Show	World's Busiest Cities	NaN	
7688	s7687	Movie	XV: Beyond the Tryline	Pierre Deschamps	
7725	s7724	Movie	You Can Tutu	James Brown	
7740	s7739	TV Show	Young Wallander	NaN	

	Cast	Country	\
19	Lee Dixon, Ian Wright, Paul Merson	United Kingdom	
33	Nesta Cooper, Kate Walsh, John Michael Higgins...	United States	
58	Daniel Palmer, Melissa Sophia, Karen Williams,...	United Kingdom	
72	Zac Efron, Leslie Mann, Matthew Perry, Thomas ...	United States	
82	Katee Sackhoff, Ray Fearon, Julie Cox, Steven ...	United Kingdom	
...	...	...	
7670	Robert Powell	United Kingdom	
7671	Anita Rani, Ade Adepitan, Dan Snow	United Kingdom	
7688	NaN	United Kingdom	
7725	Lily O'Regan, Jeannettsy Enriquez Borges, Joel...	United Kingdom	
7740	Adam Pålsson, Richard Dillane, Leanne Best, El...	United Kingdom	

	Release_Date	Rating	Duration	\
19	May 16, 2018	TV-PG	87 min	
33	September 8, 2017	TV-14	99 min	
58	November 1, 2019	TV-14	1 Season	
72	January 1, 2021	PG-13	102 min	
82	December 20, 2018	TV-14	95 min	
...	...	...	...	

7670	August 1, 2017	TV-MA	1 Season
7671	February 1, 2019	TV-PG	1 Season
7688	March 18, 2020	TV-14	91 min
7725	December 31, 2017	TV-G	87 min
7740	September 3, 2020	TV-MA	1 Season

	Type \
19	Sports Movies
33	Comedies
58	British TV Shows, International TV Shows, Real...
72	Comedies
82	Sci-Fi & Fantasy
...	...
7670	British TV Shows, Docuseries, International TV...
7671	British TV Shows, Docuseries
7688	Documentaries, Sports Movies
7725	Children & Family Movies
7740	Crime TV Shows, International TV Shows, TV Dramas

	Description	Date_N	Year
19	Mixing old footage with interviews, this is th...	2018-05-16	2018.0
33	When nerdy high schooler Dani finally attracts...	2017-09-08	2017.0
58	A stylist, a hair designer and a makeup artist...	2019-11-01	2019.0
72	Nearing a midlife crisis, thirty-something Mik...	2021-01-01	2021.0
82	Working with an artificial intelligence to inv...	2018-12-20	2018.0
...	...	...	...
7670	Footage of the most dramatic moments from Worl...	2017-08-01	2017.0
7671	From Moscow to Mexico City, three BBC journali...	2019-02-01	2019.0
7688	Set against the 2015 Rugby World Cup, this doc...	2020-03-18	2020.0
7725	A gifted young ballet dancer struggles to find...	2017-12-31	2017.0
7740	An incendiary hate crime stirs civil unrest, f...	2020-09-03	2020.0

[485 rows x 13 columns]

#### 0.1.10 Question.8. In how many movies/shows, Tom Cruise was cast?

```
[30]: data_new = data.dropna()
```

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

```
[31]:
```

	Show_Id	Category	Title	Director \
3860	s3861	Movie	Magnolia	Paul Thomas Anderson
5071	s5071	Movie	Rain Man	Barry Levinson

	Cast	Country \
3860	Jeremy Blackman, Tom Cruise, Melinda Dillon, A...	United States
5071	Dustin Hoffman, Tom Cruise, Valeria Golino, Ge...	United States

	Release_Date	Rating	Duration	Type \
3860	January 1, 2020	R	189 min	Dramas, Independent Movies
5071	July 1, 2019	R	134 min	Classic Movies, Dramas

	Description	Date_N	Year
3860	Through chance, human action, past history and...	2020-01-01	2020.0
5071	A fast-talking yuppie is forced to slow down w...	2019-07-01	2019.0

### 0.1.11 Question.9. What are the Different Ratings Defined by Netflix?

```
[32]: data['Rating'].unique()
```

```
[32]: 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)
```

### Question.9A. How many Movies got the TV-14 rating .Canada?

```
[34]: data[(data['Category'] == 'Movie') & (data['Rating'] == 'TV-14') &
         (data['Country'] == 'Canada')].shape
# 11 Movies
```

```
[34]:
```

	Show_Id	Category	Title \
30	s31	Movie	#cats_the_mewvie
34	s35	Movie	#Roxy
608	s609	Movie	At First Light
1506	s1507	Movie	Counterfeiting in Suburbia
3713	s3714	Movie	Long Time Running
3956	s3957	Movie	Martin Matte: La vie, la mort...eh la la..!
5336	s5336	Movie	Sadie's Last Days on Earth
5393	s5393	Movie	Sardaar ji
6062	s6062	Movie	The Accountant of Auschwitz
7025	s7024	Movie	The Wrong Babysitter
7041	s7040	Movie	There's Something in the Water

	Director \
30	Michael Margolis
34	Michael Kennedy
608	Jason Stone
1506	Jason Bourque
3713	Jennifer Baichwal, Nicholas de Pencier
3956	Jean-François Blais
5336	Michael Seater
5393	Rohit Jugraj
6062	Matthew Shoychet
7025	George Mendeluk
7041	Ellen Page, Ian Daniel

		Cast	Country	\
30			NaN	Canada
34	Jake Short, Sarah Fisher, Booboo Stewart, Dann...		Canada	
608	Stefanie Scott, Theodore Pellerin, Percy Hynes...		Canada	
1506	Sarah Butler, Larissa Albuquerque, Kayla Walla...		Canada	
3713	Gord Downie, Paul Langlois, Gord Sinclair, Rob...		Canada	
3956		Martin Matte	Canada	
5336	Morgan Taylor Campbell, Clark Backo, Ricardo H...		Canada	
5393	Diljit Dosanjh, Neeru Bajwa, Mandy Takhar, Jas...		Canada	
6062			NaN	Canada
7025	Daphne Zuniga, Seann Gallagher, Lisa Marie Car...		Canada	
7041		Ellen Page	Canada	

	Release_Date	Rating	Duration	\
30	February 5, 2020	TV-14	90 min	
34	April 10, 2019	TV-14	105 min	
608	December 27, 2018	TV-14	91 min	
1506	July 1, 2018	TV-14	88 min	
3713	November 12, 2017	TV-14	96 min	
3956	October 14, 2019	TV-14	62 min	
5336	August 22, 2017	TV-14	94 min	
5393	December 1, 2017	TV-14	140 min	
6062	July 1, 2019	TV-14	78 min	
7025	June 18, 2019	TV-14	89 min	
7041	March 27, 2020	TV-14	72 min	

	Type	\
30	Documentaries, International Movies	
34	Comedies, Romantic Movies	
608	Dramas, Sci-Fi & Fantasy	
1506	Dramas, Thrillers	
3713	Documentaries, International Movies, Music & M...	
3956	Stand-Up Comedy	
5336	Comedies, Sci-Fi & Fantasy	
5393	Comedies, International Movies, Music & Musicals	
6062	Documentaries, International Movies	
7025	Thrillers	
7041	Documentaries, International Movies	

	Description	Date_N	Year
30	This pawesome documentary explores how our fel...	2020-02-05	2020.0
34	A teenage hacker with a huge nose helps a cool...	2019-04-10	2019.0
608	After mysterious lights imbue her with extraor...	2018-12-27	2018.0
1506	Two teenagers print counterfeit money in their...	2018-07-01	2018.0
3713	This documentary follows the 2016 tour of belo...	2017-11-12	2017.0
3956	Quebecois comedy star Martin Matte serves up e...	2019-10-14	2019.0

5336	High schooler Sadie Mitchell believes the worl...	2017-08-22	2017.0
5393	When a palatial wedding venue turns out to be ...	2017-12-01	2017.0
6062	Decades after WWII, a former SS officer stands...	2019-07-01	2019.0
7025	A widow searches for her missing teenage daugh...	2019-06-18	2019.0
7041	This documentary spotlights the struggle of mi...	2020-03-27	2020.0

#### Question.9B. How many TV shows got the 'R' rating, after year 2018?

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

```
[36]:      Show_Id Category      Title      Director \
6437      s6436  TV Show  The Hateful Eight: Extended Version  Quentin Tarantino

      Cast Country \
6437  Samuel L. Jackson, Kurt Russell, Jennifer Jaso...      NaN

      Release_Date Rating  Duration      Type \
6437  April 25, 2019      R  1 Season  TV Shows

      Description      Date_N      Year
6437  Trapped at a stagecoach stop as a storm rages ... 2019-04-25  2019.0
```

#### 0.1.12 Question.10. What is the maximum duration of a Movie/Show on Netflix?

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

```
[39]: data.head(2)
```

```
[39]:      Show_Id Category  Title      Director \
0          s1  TV Show      3%              NaN
1          s2   Movie  07:19  Jorge Michel Grau

      Cast Country \
0  João Miguel, Bianca Comparato, Michel Gomes, R...  Brazil
1  Demián Bichir, Héctor Bonilla, Oscar Serrano, ...  Mexico

      Release_Date Rating  Duration \
0  August 14, 2020  TV-MA  4 Seasons
1  December 23, 2016  TV-MA      93 min

      Type \
0  International TV Shows, TV Dramas, TV Sci-Fi &...
1              Dramas, International Movies

      Description      Date_N      Year \
0  In a future where the elite inhabit an island ... 2020-08-14  2020.0
```

```
1 After a devastating earthquake hits Mexico Cit... 2016-12-23 2016.0
```

```

Minutes      Unit
0           4  Seasons
1          93      min

```

### 0.1.13 Question.11. Which Individual country has Highest No. Tv Shows?

```
[40]: data_TV_Show = data[data['Category'] == 'TV Show']
```

```
[41]: data_TV_Show.Country.value_counts().head(1)
```

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

### 0.1.14 Question.12. How we can sort the dataset by year?

```
[42]: data.sort_values( by = 'Year', ascending= False).head(10)
```

```
[42]:
Show_Id  Category  Title \
5564    s5564    Movie  Sherlock Holmes
5919    s5919    Movie  Surf's Up
980      s981    TV Show  Bling Empire
1355    s1356    Movie  Chris Rock Total Blackout: The Tamborine Exten...
5955    s5955    Movie  Taare Zameen Par
366      s367    Movie  Al acecho
560      s561    Movie  Apaharan
5922    s5922    TV Show  Surviving Death
4269    s4270    Movie  Mud
1002    s1003    Movie  Blue Streak
```

```

Director \
5564      Guy Ritchie
5919  Ash Brannon, Chris Buck
980      NaN
1355      Chris Rock
5955      Aamir Khan
366      Francisco D'Eufemia
560      Prakash Jha
5922      NaN
4269      Jeff Nichols
1002      Les Mayfield

```

```

Cast \
5564  Robert Downey Jr., Jude Law, Rachel McAdams, M...

```



5919	Shia LaBeouf, Jeff Bridges, Zooey Deschanel, J...
980	NaN
1355	Chris Rock
5955	Aamir Khan, Darsheel Safary, Tanay Chheda, Tis...
366	Rodrigo de la Serna, Belen Blanco, Walter Jako...
560	Ajay Devgn, Nana Patekar, Bipasha Basu, Ayub K...
5922	NaN
4269	Matthew McConaughey, Reese Witherspoon, Tye Sh...
1002	Martin Lawrence, Luke Wilson, Peter Greene, Da...

	Country	Release_Date \
5564	United States, Germany, United Kingdom, Australia	January 1, 2021
5919	United States	January 1, 2021
980	NaN	January 15, 2021
1355	NaN	January 12, 2021
5955	India	January 10, 2021
366	NaN	January 12, 2021
560	India	January 8, 2021
5922	United States	January 6, 2021
4269	United States	January 1, 2021
1002	Germany, United States	January 1, 2021

	Rating	Duration	Type \
5564	PG-13	128 min	Action & Adventure, Comedies
5919	PG	86 min	Children & Family Movies, Comedies, Sports Movies
980	TV-MA	1 Season	Reality TV
1355	TV-MA	98 min	Stand-Up Comedy
5955	PG	162 min	Dramas, International Movies
366	TV-MA	81 min	International Movies, Thrillers
560	TV-14	161 min	Dramas, International Movies
5922	TV-MA	1 Season	Docuseries, Reality TV
4269	PG-13	131 min	Dramas, Independent Movies
1002	PG-13	94 min	Action & Adventure, Comedies

	Description	Date_N	Year \
5564	The game is afoot for an eccentric detective w...	2021-01-01	2021.0
5919	This Oscar-nominated animated comedy goes behi...	2021-01-01	2021.0
980	Follow LA's wildly wealthy Asian and Asian Ame...	2021-01-15	2021.0
1355	In this extended cut of his 2018 special, Chri...	2021-01-12	2021.0
5955	When daydreamer Ishaan is sent to boarding sch...	2021-01-10	2021.0
366	Looking for a fresh start, a park ranger gets ...	2021-01-12	2021.0
560	Raised under the condescending eye of his acti...	2021-01-08	2021.0
5922	What happens after we die? This docuseries exp...	2021-01-06	2021.0
4269	Two Mississippi teens meet peculiar drifter Mu...	2021-01-01	2021.0
1002	A jewel thief returns to his hiding place afte...	2021-01-01	2021.0

Minutes	Unit
---------	------

5564	128	min
5919	86	min
980	1	Season
1355	98	min
5955	162	min
366	81	min
560	161	min
5922	1	Season
4269	131	min
1002	94	min

**0.1.15 Question.13. Find all the instances where:**

Category is 'Movie' and Type is 'Dramas'

**0.1.16 OR**

Category is 'TV Show' and Type is 'Kids TV'

```
[45]: data[((data['Category'] == 'Movie') & (data['Type'] == 'Dramas')) |
        ((data['Category'] == 'TV Show') & (data['Type'] == "Kids' TV"))]
```

```
[45]:
```

	Show_Id	Category	Title	Director	\
4	s5	Movie	21	Robert Luketic	
7	s8	Movie	187	Kevin Reynolds	
111	s112	TV Show	44 Cats	NaN	
170	s171	Movie	A Family Man	Mark Williams	
232	s233	Movie	A Stoning in Fulham County	Larry Elikann	
...	...	...	...	...	
7668	s7667	TV Show	World of Winx	Iginio Straffi	
7717	s7716	TV Show	Yoko	NaN	
7719	s7718	TV Show	YOM	NaN	
7758	s7757	TV Show	Z4	NaN	
7761	s7760	TV Show	Zak Storm	NaN	

	Cast	\
4	Jim Sturgess, Kevin Spacey, Kate Bosworth, Aar...	
7	Samuel L. Jackson, John Heard, Kelly Rowan, Cl...	
111	Sarah Natochenny, Suzy Myers, Simona Berman, E...	
170	Gerard Butler, Gretchen Mol, Alison Brie, Will...	
232	Ken Olin, Jill Eikenberry, Maureen Mueller, Gr...	
...	...	
7668	Haven Paschall, Alysha Deslorieux, Jessica Paq...	
7717	Eileen Stevens, Alyson Leigh Rosenfeld, Sarah ...	
7719	Sairaj, Devyani Dagaonkar, Ketan Singh, Mayur ...	
7758	Apollo Costa, Gabriel Santana, Matheus Lustosa...	
7761	Michael Johnston, Jessica Gee-George, Christin...	

	Country	Release_Date \
4	United States	January 1, 2020
7	United States	November 1, 2019
111	Italy	October 1, 2020
170	Canada, United States	December 15, 2019
232	United States	October 1, 2011
...	...	...
7668	Italy, United States	June 16, 2017
7717	NaN	June 23, 2018
7719	NaN	June 7, 2018
7758	Brazil	February 22, 2019
7761	United States, France, South Korea, Indonesia	September 13, 2018

	Rating	Duration	Type \
4	PG-13	123 min	Dramas
7	R	119 min	Dramas
111	TV-Y7	2 Seasons	Kids' TV
170	R	110 min	Dramas
232	TV-14	95 min	Dramas
...	...	...	...
7668	TV-Y7	2 Seasons	Kids' TV
7717	TV-Y	1 Season	Kids' TV
7719	TV-Y7	1 Season	Kids' TV
7758	TV-PG	2 Seasons	Kids' TV
7761	TV-Y7	3 Seasons	Kids' TV

	Description	Date_N	Year \
4	A brilliant group of students become card-coun...	2020-01-01	2020.0
7	After one of his high school students attacks ...	2019-11-01	2019.0
111	Paw-esome tales abound when singing furry frie...	2020-10-01	2020.0
170	A ruthless corporate headhunter battles his ri...	2019-12-15	2019.0
232	After reckless teens kill an Amish child, a pr...	2011-10-01	2011.0
...	...	...	...
7668	The reality show "WOW!" engages the Winx in th...	2017-06-16	2017.0
7717	Friends Mai, Oto and Vik's games at the park b...	2018-06-23	2018.0
7719	With the mind of a human being, and the body o...	2018-06-07	2018.0
7758	Fading music biz veteran Zé realizes he has ju...	2019-02-22	2019.0
7761	Teen surfer Zak Storm is mysteriously transpor...	2018-09-13	2018.0

	Minutes	Unit
4	123	min
7	119	min
111	2	Seasons
170	110	min
232	95	min
...	...	...
7668	2	Seasons

7717	1	Season
7719	1	Season
7758	2	Seasons
7761	3	Seasons

[322 rows x 15 columns]