

netflix data analysis

```
df = pd.read_csv(r"C:\Users\PC\chetan\Downloads\8_Netflix Dataset.csv")
```

df.head()

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	year
0	s1	TV Show	3%	NaN	Jolo 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
1	s2	Movie	07.19	Jorge Michel Grau	Demian Bichir, Héctor Bonilla, Oscar Semano, ...	Mexico	December 23, 2018	TV-MA	93 min	Dramas, International Movies	After a devastating earthquake hits Mexico City...	2018
2	s3	Movie	23.59	Gilbert Chan	Tedd Chan, Stella Chung, Henry Hi, Lawrence ...	Singapore	December 26, 2018	TV-14	78 min	Honor Movies, International Movies	When an army recruit is found dead, his fellow...	2018
3	s4	Movie	9	Shane Acker	Eljah 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...	2017
4	s5	Movie	21	Robert Luketic	Jim Sturgess, Kevin Spacey, Kate Bosworth, Ari...	United States	January 1, 2020	PG-13	123 min	Dramas	A brilliant group of students become caril-coun...	2020

df.columns

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

Q.10) What is the maximum duration of a Movie/Show on Netflix?

Q.13) Which individual country has the Highest No. of TV Shows?

Q.13) Find all the instances where: Category is 'Movie' and Type is 'Dramas' or Category is 'TV Show' & Type is 'Kids' TV.

df[df.duplicated()]

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	year
6500	s584	Movie	Backfire	Dave Puttin	Black Demos, Byron "Squally" Vernon, Dominic...	United States	April 5, 2019	TV-MA	97 min	Dramas, Independent Movies, Thrillers	When two would-be robbers accidentally kill a ...	2019
6622	s621	Movie	The Lost Obamas	Abba T. Mulugeta	Seun Aiyed, Judith Aduki, Tolu Tolu, Hu Ema...	Nigeria	September 4, 2020	TV-MA	94 min	Comedies, Dramas, Independent Movies	A disillusioned security guard narrates the inte...	2020

df.Director.value_counts().head(38)

Real3 Campos, Marcus Raboy	18
Jay Kataris	14
Cathy Garcia-Holmes	13
Jay Chapman	12
Youssef Chahine	12
Martin Scorsese	12
Steven Spielberg	9
Naved Dhami	9
Hakan Altun	8
Director, dtype: int64	1264

df[df.Director.str.contains('Tom Cruise')]

df1 = df.dropna(inplace=True)

df.dtypes

Show_Id	object
Category	object
Title	object
Director	object
Cast	object
Country	object
Release_Date	datetime64[ns]
Rating	object
Duration	object
Type	object
Description	object
year	float64
dtype:	object

df.convert_dtypes()

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	year
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2	s3	Movie	23.59	Gilbert Chan	Tedd Chan, Stella Chung, Henry Hi, Lawrence ...	Singapore	2018-12-20	R	78 min	Honor Movies, International Movies	When an army recruit is found dead, his fellow...	2018
3	s4	Movie	9	Shane Acker	Eljah Wood, John C. Reilly, Jennifer Connelly, ...	United States	2017-11-16	PG-13	80 min	Action & Adventure, Independent Movies, Sci-Fi...	In a postapocalyptic world, rag-doll robots hi...	2017
4	s5	Movie	21	Robert Luketic	Jim Sturgess, Kevin Spacey, Kate Bosworth, Ari...	United States	2020-01-01	PG-13	123 min	Dramas	A brilliant group of students become caril-coun...	2020
5	s6	TV Show	46	Serdar Akar	...	Turkey	2017-07-01	TV-MA	1 Season	International TV Shows, TV Dramas, TV Mysterys	A genetics professor experiments with a tre...	2017
...
7780	s7779	Movie	Zombieland	Ruben Fleischer	Jesse Eisenberg, Woody Harelston, Emma Stone, ...	United States	2019-11-01	R	88 min	Comedies, Horror Movies	Looking to survive in a world taken over by t...	2019
7782	s7781	Movie	Zoo	Shashank Arora, Shweta Tripathi, Rahul Kumar, ...	India	2018-07-01	TV-MA	94 min	Dramas, Independent Movies, International Movies	A drug dealer starts having doubts about his l...	2018	
7783	s7782	Movie	Zoom	Peter Hewitt	Tim Allen, Courteney Cox, Chevy Chase, Kate Ma...	United States	2020-01-11	PG	88 min	Children & Family Movies, Comedies	Dragged from civilian life, a superhero...	2020
7784	s7783	Movie	Zozo	Josef Fares	Imad Creidi, Amineetah Turk, Elias Gerg, Car...	Sweden, Czech Republic, United Kingdom, Denmar...	2020-10-19	TV-MA	99 min	Dramas, International Movies	When Lebanon's Civil War deprives Zozo of his...	2020
7785	s7784	Movie	Zubaan	Mozes Singh	Vicky Kaushal, Sarah-Jane Dias, Raaghav Chan...	India	2019-03-02	TV-14	111 min	Dramas, International Movies, Music & Musicals	A scrappy but poor boy worms his way into a f...	2019

4809 rows x 12 columns

df.dtypes

Show_Id	object
Category	object
Title	object
Director	object
Cast	object
Country	object
Release_Date	datetime64[ns]
Rating	object
Duration	object
Type	object
Description	object
year	float64
dtype:	object

df[['minutes', 'unit']] == df['Duration'].str.split(' ', expand = True)

df.drop_duplicates(inplace=True)

df[df.duplicated()]

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	year
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	False	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 x 11 columns

df.columns

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

df.head()

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0	s1	TV Show	3%	NaN	Jolo Miguel, Bianca Comparato, Michel Gomes, R...	Brazil	2020-08-14	TV-MA	4 Seasons	International TV Shows, TV Dramas, TV Sci-Fi &...	In a future where the elite inhabit an island ...	2020
1	s2	Movie	07.19	Jorge Michel Grau	Demian Bichir, Héctor Bonilla, Oscar Semano, ...	Mexico	December 23, 2018	TV-MA	93 min	Dramas, International Movies	After a devastating earthquake hits Mexico City...	2018
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df[['Title']] == 'House of Cards'

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	year
2832	s2833	TV Show <td>House of Cards</td> <td>Robin Wright, David Fincher, Gerald McRaney, J...</td> <td>Kevin Spacey, Robin Wright, Kate Mara, Corey S...</td> <td>United States</td> <td>November 2, 2018</td> <td>TV-MA</td> <td>6 Seasons</td> <td>TV Dramas, TV Thrillers</td> <td>A ruthless politician will stop at nothing to r...</td> <td>2018</td>	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 r...	2018

df[['Release_Date']] = pd.to_datetime(df.Release_Date)

df[['year']] = df.Release_Date.dt.year

df

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7786	s7785	Movie	Zulu Man in Japan	NaN	Nasty C	NaN	2020-09-25	TV-MA	44 min	Documentaries, International Movies, Music & Musicals	In this documentary, South African rapper Nasty C...	2020
7787	s7786	TV Show	Zumbo's Just Desserts	NaN	Adriano Zumbo, Rachel Khoo	Australia	2020-10-31	TV-PG	1 Season	International TV Shows, Reality TV	Dessert wizard Adriano Zumbo looks for the new...	2020
7788	s7787	Movie	ZZ TOP: THAT LITTLE OL' BAND FROM TEXAS	Sam Dunn	NaN	United Kingdom, Canada, United States	2020-03-01	TV-MA	90 min	Documentaries, Music & Musicals	This documentary delves into the mystique behi...	2020

7787 rows x 12 columns

df.value_counts().plot(kind = 'bar')

plt.xlabel('no. of Files', c = 'y',)

plt.ylabel('years', c = 'r',)

plt.title('bar graph', loc='left')

plt.show()

df.head()

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sns.countplot(df.Category).plt.title('nohan')

plt.show()

C:\python\python39\lib\site-packages\seaborn\decorators.py:36: FutureWarning: Pass the following variable as a keyword arg: x. From version 0.12, the only valid position argument will be 'data', and passing other arguments without an explicit keyword will result in an error or misinterpretation.

plt.moham

df.Category.value_counts()

Movie	5377
TV Show	2418

Name: Category, dtype: int64

df[df['year'] == 2020]

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2009 rows x 12 columns

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

86	21	Sarfarosh	Sarvagathi 1897 (Seven)									
348	Agent	Raghuvar										
364	Akshay	Birbal										
523	Anjan	Rural	Wishes									
6249	The	Creative	Indians									
6486	The	Golden	Years with Javed Akhtar									
6469	The	House	That Made Me									
7284	Yeh	Meri	Family									
7785	Name:	Title,	Length: 71,	dtype:	object							

df

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7787 rows x 12 columns

df.Country.str.contains('India')

0	False
1	False
2	False
3	False
4	False
...	...
7784	False
7785	