```
import pandas as pd
import matplotlib
import matplotlib.pyplot as plt
import seaborn as sns
df= pd.read_csv('netflix_titles.csv')
display(df.head())
display(df.shape)
```

s1	Movie	Dick Johnson Is Dead	Kirsten Johnson	NaN Ama	United States	September 25, 2021	2020	PG-13	90 min	Documer
				Ama						
s2	TV Show	Blood & Water	NaN	Qamata, Khosi Ngema, Gail Mabalane, Thaban	South Africa	September 24, 2021	2021	TV-MA	2 Seasons	Interna TV Shov Dram Mys
				Sami						<u> </u>
	sz	SZ Show	<sup>S2</sup> Show Water	sz Show Water Nan	Snow water Gail Mabalane, Thaban Sami	Snow vvater Gail Affica Mabalane, Thaban Sami	Snow water Gail Affica 24, 2021 Mabalane, Thaban Sami	Snow water Gail Affica 24, 2021 Mabalane, Thaban Sami	Snow vvater Gail Affica 24, 2021  Mabalane, Thaban  Sami	Snow Water Gail Africa 24, 2021 Seasons  Mabalane, Thaban  Sami

display(df.describe()) print('----')

> release\_year count 8807.000000 2014.180198 mean 8.819312 std 1925.000000 min 25% 2013.000000 50% 2017.000000 75% 2019.000000 max 2021.000000

display(df.tail())
print('-----')
display(df.dtypes)
print('----')
display(df.isnull().sum())

	show_id	type	title	director	cast	country	date_added	release_year	rating	durat
8802	s8803	Movie	Zodiac	David Fincher	Mark Ruffalo, Jake Gyllenhaal, Robert Downey J	United States	November 20, 2019	2007	R	158
8803	s8804	TV Show	Zombie Dumb	NaN	NaN	NaN	July 1, 2019	2018	TV-Y7	Seas
8804	s8805	Movie	Zombieland	Ruben Fleischer	Jesse Eisenberg, Woody Harrelson, Emma Stone,	United States	November 1, 2019	2009	R	88
8805	s8806	Movie	Zoom	Peter Hewitt	Tim Allen, Courteney Cox, Chevy Chase, Kate Ma	United States	January 11, 2020	2006	PG	88
8806	s8807	Movie	Zubaan	Mozez Singh	Vicky Kaushal, Sarah- Jane Dias, Raaghav Chanan	India	March 2, 2019	2015	TV-14	111
irecto ast']= ountry ating'	or y dded e_year or']=df['c	object	t t t t t 4 + r'].fillna(' na('unknown' ].fillna('ur	)						

```
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```

display(tvshow.head())
print('-----')
display(movie.head())

	show_id	type	title	director	cast	country	date_added	release_year	rating	duration	
1	s2	TV Show	Blood & Water	unknown	Ama Qamata, Khosi Ngema, Gail Mabalane, Thaban	South Africa	September 24, 2021	2021	TV-MA	2 Seasons	ı
2	s3	TV Show	Ganglands	Julien Leclercq	Sami Bouajila, Tracy Gotoas, Samuel Jouy, Nabi	unknown	September 24, 2021	2021	TV-MA	1 Season	ı
3	s4	TV Show	Jailbirds New Orleans	unknown	unknown	unknown	September 24, 2021	2021	TV-MA	1 Season	
4	s5	TV Show	Kota Factory	unknown	Mayur More, Jitendra Kumar, Ranjan Raj, Alam K	India	September 24, 2021	2021	TV-MA	2 Seasons	ı
5	s6	TV Show	Midnight Mass	Mike Flanagan	Kate Siegel, Zach Gilford, Hamish Linklater,	unknown	September 24, 2021	2021	TV-MA	1 Season	

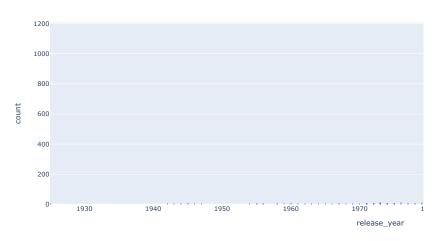
```
count=df['type'].value_counts()
display(count)

Movie 6128
TV Show 2666
Name: type, dtype: int64

import plotly.express as px
fig=px.histogram(data_frame=df,x='type',title='No.of Movies and TV shows in netflix')
fig.show()
```

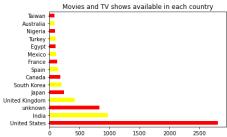
## No.of Movies and TV shows in netflix

## number of Movies and TV shows released each year



country\_counts=df['country'].value\_counts().head(15).plot(kind='barh',color=['red','yellow'],title='Movies and TV shows available in each country')
display('country\_count')

## country\_count'



movie\_count=df['country'].where(df['type']=='Movie')
movie\_count.value\_counts().head(15).plot(kind='barh',color=['black','purple'],title='Movies available in each country')

## $<\!matplotlib.axes.\_subplots.AxesSubplot at 0x7f51d21dff10>$



TvShows\_count=df['country'].where(df['type']=='TV Show')
TvShows\_count.value\_counts().head(15).plot(kind='barh',color=['orange','blue'],title='TV shows available in each country')

```
<matplotlib.axes._subplots.AxesSubplot at 0x7f51d1fd7280>
                               TV shows available in each country
              {\tt df['cast'].value\_counts().head(11)}
      unknown
                                                                                                                                                                825
      David Attenborough
                                                                                                                                                                  19
      Vatsal Dubey, Julie Tejwani, Rupa Bhimani, Jigna Bhardwaj, Rajesh Kava, Mousam, Swapnil
Samuel West
                                                                                                                                                                  14
      Jeff Dunham
      Michela Luci, Jamie Watson, Eric Peterson, Anna Claire Bartlam, Nicolas Aqui, Cory Doran, Julie Lemieux, Derek McGrath
      Craig Sechler
David Spade, London Hughes, Fortune Feimster
Kevin Hart
      Jim Gaffigan
Bill Burr
      Name: cast, dtype: int64
 \begin{array}{lll} df['cast'].value\_counts().head(10) \\ top\_ten=pd.DataFrame(df['cast']).value\_counts().head(10) \\ top\_ten \end{array} 
                                                                                                                                                                825
      unknown
      David Attenborough
      Vatsal Dubey, Julie Tejwani, Rupa Bhimani, Jigna Bhardwaj, Rajesh Kava, Mousam, Swapnil
                                                                                                                                                                  14
      Samuel West
Jeff Dunham
      Kevin Hart
Craig Sechler
      David Spade, London Hughes, Fortune Feimster
Michela Luci, Jamie Watson, Eric Peterson, Anna Claire Bartlam, Nicolas Aqui, Cory Doran, Julie Lemieux, Derek McGrath
      Jim Gaffigan
      dtype: int64
df['director'].value_counts().head(5)
top_five=pd.DataFrame(df['director']).value_counts().head(5)
top_five
      director
      unknown
Rajiv Chilaka
                                       2624
                                         19
18
16
      Raúl Campos, Jan Suter
Marcus Raboy
      Suhas Kadav
dtype: int64
                                         16
```

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