```
##1. Load the dataset and print the complete information of the dataset and name the columns that has missing values.
import pandas as pd
netflix=pd.read_csv("netflix.csv")
print(netflix.info())
print("columns that has missing values are director,cast,country")
    <class 'pandas.core.frame.DataFrame'>
     RangeIndex: 8807 entries, 0 to 8806
     Data columns (total 12 columns):
                       Non-Null Count Dtype
     # Column
     ---
         -----
                        -----
      0
                       8807 non-null
          show_id
                                       object
                       8807 non-null
                                       obiect
      1
          tvpe
                       8807 non-null
      2
         title
                                        object
      3
          director
                        6173 non-null
                                        object
                       7982 non-null
         cast
                                       object
      5
          country
                       7976 non-null
                                        object
      6
          date_added
                        8797 non-null
                                        object
          release_year 8807 non-null
                                        int64
                        8803 non-null
      8
         rating
                                        object
          duration
                       8804 non-null
                                        object
      10 listed_in
                        8807 non-null
                                        object
      11 description
                       8807 non-null
                                        obiect
     dtypes: int64(1), object(11)
     memory usage: 825.8+ KB
     columns that has missing values are director, cast, country
##2.Load the dataset and print the top 10 countries contributing to the Content on Netflix
import pandas as pd
netflix=pd.read csv("netflix.csv")
print(netflix["country"].value_counts().head(10))
     country
     United States
                       2818
     India
                        972
     United Kingdom
                        419
                        245
     Japan
     South Korea
                        199
                        181
     Canada
     Spain
                        145
                        124
     France
     Mexico
                        110
     Egypt
                        106
     Name: count, dtype: int64
##3.Load the dataset and list the 5 most popular types of genre on the platform.
import pandas as pd
netflix=pd.read_csv("netflix.csv")
genre_count=netflix["listed_in"].str.split(", ").explode().value_counts()
print(genre_count.head(5))
    listed_in
     International Movies
                               2752
     Dramas
                               2427
     Comedies
                               1674
     International TV Shows
                               1351
     Documentaries
                                869
     Name: count, dtype: int64
##4.Load the Dataset and categorize into TV shows and Movies and display 2 rows for each.
import pandas as pd
netflix=pd.read_csv("netflix.csv")
movies=netflix[netflix["type"]=="Movie"]
```

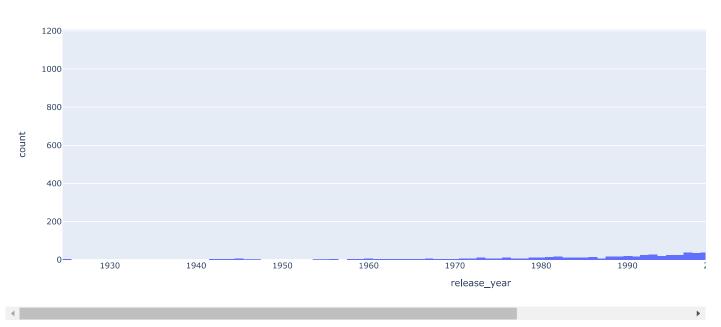
Tuchows=netfliv[netfliv["tune"]=="TV Show"]

```
INDUMP-HECITTY [HECITTY | CARE ]-- IN DHOW ]
print(movies.head(2))
print(Tvshows.head(2))
\rightarrow
      show_id type
                                                 title \
                                  Dick Johnson Is Dead
           s1 Movie
    6
           s7 Movie My Little Pony: A New Generation
                            director \
    0
                     Kirsten Johnson
    6 Robert Cullen, José Luis Ucha
                                                    cast
                                                               country \
                                                     NaN United States
       Vanessa Hudgens, Kimiko Glenn, James Marsden, ...
               date_added release_year rating duration
                                                                       listed_in \
    0 September 25, 2021
                                   2020 PG-13
                                                90 min
                                                                   Documentaries
       September 24, 2021
                                   2021
                                            PG
                                                91 min Children & Family Movies
                                             description
    0 As her father nears the end of his life, filmm...
    6 Equestria's divided. But a bright-eyed hero be...
      show_id
                type
                               title
                                              director \
           s2 TV Show Blood & Water
                           Ganglands Julien Leclercq
           s3 TV Show
                                                               country \
    1 Ama Qamata, Khosi Ngema, Gail Mabalane, Thaban... South Africa
     2 Sami Bouajila, Tracy Gotoas, Samuel Jouy, Nabi...
               date_added release_year rating duration \
                                   2021 TV-MA 2 Seasons
       September 24, 2021
                                   2021 TV-MA 1 Season
       September 24, 2021
                                               listed in \
         International TV Shows, TV Dramas, TV Mysteries
     2 Crime TV Shows, International TV Shows, TV Act...
                                             description
    1 After crossing paths at a party, a Cape Town t...
       To protect his family from a powerful drug lor...
##5. Load the Dataset and find the Oldest movies
import pandas as pd
netflix=pd.read_csv("netflix.csv")
movies=netflix[netflix["type"]=="Movie"]
print(movies[movies["release_year"]==movies["release_year"].min()]["title"])
    7790
                  Prelude to War
    8205
            The Battle of Midway
    Name: title, dtype: object
##6. Load the Dataset and get the count of values for duration column.
import pandas as pd
import numpy as np
netflix=pd.read_csv("netflix.csv")
print(netflix.duration.value_counts())
    duration
                 1793
    1 Season
    2 Seasons
                  425
    3 Seasons
                  199
    90 min
                  152
    94 min
                  146
    16 min
    186 min
                    1
    193 min
                    1
    189 min
                   1
    191 min
                   1
    Name: count, Length: 220, dtype: int64
```

##7. Load the Dataset and find the measures of central tendency and dispersion of duration column by extracting numerical part of the durat # code goes here import pandas as pd netflix=pd.read csv("netflix.csv") netflix["duration1"]=netflix["duration"].str.extract("(\d+)",expand=False).astype("float") print("The mean duration is",netflix["duration1"].mean()) print("The highest duration is",netflix["duration1"].max()) print("The minimum duration is",netflix["duration1"].min()) print("The variance of duration is",netflix["duration1"].var()) print("The standard deviation is",netflix["duration1"].std()) → The mean duration is 69.84688777828259 The highest duration is 312.0 The minimum duration is 1.0 The variance of duration is 2582.146723244931 The standard deviation is 50.81482778918896 ##8. Load the Dataset and find out to which country the highest duration movie belongs to by extracting the numerical part of the duration c # print title and country column. import pandas as pd import numpy as np netflix=pd.read csv("netflix.csv") netflix["duration1"]=netflix["duration"].str.extract("(\d+)",expand=False).astype("float") print(netflix[netflix["duration1"]==netflix["duration1"].max()][["title","country"]]) title country 4253 Black Mirror: Bandersnatch United States ##9. Load the Dataset and plot the histogram on Netflix Content Release Year Distribution import pandas as pd import numpy as np from matplotlib import pyplot as plt import seaborn as sns netflix=pd.read_csv("netflix.csv") import plotly.express as px px.histogram(netflix,x="release_year",title="year wise count")



year wise count



##10. Load the Dataset and plot the Distribution of Populartiy of different content categories using countplot

```
import pandas as pd
import numpy as np
from matplotlib import pyplot as plt
import seaborn as sns
netflix=pd.read_csv("netflix.csv")
ax=sns.countplot(data=netflix,y="listed_in", order=netflix["listed_in"].value_counts().index[0:20])
ax.bar_label(ax.containers[0]) # to get values next to graphs
```

plt.show()



