import pandas as pd

import matplotlib.pyplot as plt

import seaborn as sns

df=pd.read\_csv("netflix\_titles.csv")

print(df.shape)

print(df.head())

print(df.isnull().sum())

df.fillna({'country':"Unknown"},inplace=True)

df.fillna({'rating':"Unknown"},inplace=True)

df['date\_added']=pd.to\_datetime(df['date\_added'],errors='coerce')

df['year\_added']=df['date\_added'].dt.year

#Movies vs TV shows count

sns.countplot(data=df, x='type',palette='pastel')

plt.title('Count of Movies and TV Shows on Netflix')

plt.xlabel('Type')

plt.ylabel('Count')

plt.show()

#Content added per year

df['year\_added'].value\_counts().sort\_index().plot(kind='bar',figsize=(10,5),color='lightgreen')

plt.title('Content Added to Netflix Over the Years')

plt.xlabel('Year')

plt.ylabel('Number of Titles')

plt.grid(axis='y')

plt.show()

#Top 10 countries producing content

top\_countries=df['country'].value\_counts().head(10)

top\_countries.plot(kind='barh',color='orange')

plt.title('Top 10 Countries Producing Netflix Content')

plt.xlabel('Number of Titles')

plt.ylabel('Country')

plt.show()

#Most common ratings

df['rating'].value\_counts().head(10).plot(kind='bar',color='blue')

plt.title('Most Common Content Ratings')

plt.xlabel('Rating')

plt.ylabel('Count')

plt.show()

#Top Genres

from collections import Counter

genre\_list=[]

df['listed\_in'].dropna().apply(lambda x:genre\_list.extend(x.split(',')))

top\_genres=pd.Series(Counter([genre.strip() for genre in genre\_list])).sort\_values(ascending=False).head(10)

top\_genres.plot(kind='barh',color='purple')

plt.title("Top 10 Most Frequent Genres")

plt.xlabel("Number of Titles")

plt.ylabel("Genre")

plt.show()

#Top 10 directors

top\_directors=df['director'].dropna().value\_counts().head(10)

top\_directors.plot(kind='bar',color='coral')

plt.title('Top 10 Most Featured Directors on Netflix')

plt.xlabel('Director')

plt.ylabel('Count')

plt.show()