## **EXPLORATORY DATA ANALYSIS**

## REPORT – by NIVEDHA R V

## ${\bf DATASET-\underline{Netflix.csv}}$

TASK	METHOD USED	
To show top 5 records of the dataset	nfdata.head(5)	
To show bottom 10 records of the	nfdata.tail(10)	
dataset		
To show no. of rows and columns	nfdata.shape	
To show no of total	nfdata.size	
values(elements) in the dataset		
To show the column names of the	nfdata.columns	
dataset		
To show the data type of the	nfdata.dtypes	
columns of the dataset		
To show the indexes, column's	nfdata.info	
datatypes and memory usage		
TASK 1		
To check and show duplicate	nfdata.duplicated()	
records in the dataset		
To remove duplicate records	nfdata.drop duplicates(inplace=True)	
permanently	nfdata	
TASK 2		
To show null values present in	nfdata.isnull()	
dataset	V	
To show the count of null values in	nfdata.isna().sum()	
each column		
To create heatmap and show null	sb.heatmap(nfdata.isna())	
value count		
TASK 3		
To show the show id and director	nfdata.loc[nfdata["Title"]=="House of	
name, for the show 'House of	Cards"][["Show_Id","Director"]]	
Cards'		
TASK 4		
To show the year that released	nfdata[['Date','Year']] = nfdata.Release_Date.str.split(",",expand=True)	
highest number of tv shows and	year=nfdata.Year.value counts()	
movies	year[0:1]	
To show the count for individual	nfdata.Year.value_counts()	
To show them in bar graph	sb.barplot(x="Year",y="Category",data=nfdata)	
	plt.gca().invert_yaxis()	
TASK 5		
To show no of movies and tv shows	nfdata.groupby("Category").Category.count()	
in the dataset		
To show the count of movies and tv	nfdata.Category.value_counts()	
shows separately		
To show them using count plot as	sb.countplot(x="Category",data=nfdata)	
well.		
TASK 6		
Show the movies that were released	nfdata[(nfdata.Year==2000) &	
in the year 2000	(nfdata.Category=="Movie")][["Title","Category"]]	

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Show the title of tv shows that were	nfdata[nfdata.Country=="India"][["Title"]]
released only in india	1:
Show the Top 10 directors who gave	director=nfdata.Director.value_counts()
the highest number of TV shows and	director.head(10)
movies to Netflix.	
Show all the records where	nfdata[((nfdata.Type.str.contains("comedies"))&
"category is movie and type is	(nfdata.Category=="Movie"))
comedies" or "county is united	(nfdata.Country.str.contains("United Kingdom"))]
kingdom"	
In how many movies/shows, Tom	nfdata.dropna(inplace=True)
Cruise were cast? Show the records	nfdata[(nfdata.Cast.str.contains("Tom Cruise"))][["Category"]].count()
as well	
	nfdata[(nfdata.Cast.str.contains("Tom Cruise"))]
TASK 7	
To show all the Ratings defined by	nfdata.Rating.values
Netflix?	č
To show the distribution of content	sb.displot(nfdata.Rating,aspect=3)
ratings in a graph	plt.title("Distribution of Rating",fontsize=17)
To show the ratings and no. of	no=nfdata.Rating.unique()
unique ratings	no measureating.unique()
umque ratings	print("Num of Unique ratings=",len(no))
To show the no of movies that got	res=nfdata.query("Category.str.contains('ovie') &
"TV-14" rating in Canada	Rating.str.contains('TV-14') & Country=='Canada''')
1 V-14 Tating in Canada	len(res)
To show the no of Tv Shows got	Ratings=nfdata[(nfdata["Rating"]=="R" ) &
rating "R" after year 2018	(nfdata["Year"]>=2018)][["Category","Year"]]
Tatilig K after year 2018	' =
TACIZO	len(Ratings)
TASK 8	C1 ( FFID 6' ( ) H HTT '(H3)
To show the maximum duration of a	nfdata[["Minutes","Unit"]]=nfdata["Duration"].str.split("
movie/tv show in Netflix	",expand=True)
	maxi=nfdata[nfdata.Unit.str.contains("eas")]
	maxi.max()
To Show the lowest duration of a	nfdata[(nfdata.Unit.str.contains("min"))&(nfdata.Minutes.min())].min()
movie/tv show in Netflix	
TASK 9	
To show the country that has the	nfdata[nfdata["Category"]=="TV
highest no. of .Tv Shows	Show"][["Country"]].value_counts().head(1)
To show all the countries and no. of	nfdata[nfdata["Category"]=="TV
tv shows in a graph	Show"][["Country"]].value_counts().plot(kind="barh")
To compare each countries tv show	
and movie count and show them in a	
graph	
TASK 10	
To Sort the dataset by year and show	nfdata.sort_values("Year")
them	
To show the count of movies/tv	nfdata[(nfdata["Category"]=="TV Show")
shows released in a year in line chart	(nfdata["Category"]=="Movies")][["Yearp"]].value counts()
	.plot(kind="line",fontsize=6)
To show the Top 5 directors in the	nfdata["Director"].value counts().head(5)
Netflix based on the count of	((-)
movies/tv shows directed by them.	
movies/tv shows directed by them.	