

Exploratory Data Analysis Report

Dataset – Netflix

Task	Method Used
To show top 5 records of the dataset	data.head(5)
To show bottom 10 records of the dataset	data.tail(10)
To show no. of rows and columns	data.shape
To show no. of total values(elements) in the dataset	data.size
To show the column names of the dataset	data.columns
To show the data type of the columns of the dataset	data.dtypes
To show the indexes, column's datatypes and memory usage	data.info()
TASK 1	
To check duplicate records in the dataset	data.duplicated()
To Remove duplicates permanently	data.drop_duplicates(inplace = True)
TASK 2	
To show null values	data.isnull()
To show count of null values	data.isnull().sum()
To create heatmap for null value	import seaborn as sns sns.heatmap(data.isnull())
TASK 3	
To display the show id and director name for "House of Cards"	data.loc[data.title == "House of cards", ['Show_id', 'Director']]
TASK 4	
To change the date datatype in a dataset	data['Date_N']=pd.to_datetime(data['Release_Date'], format="mixed")
To find the year the highest no. of Tv shows and Movies were Released	data['Date_N'].dt.year.value_counts().head(1)

To show the count for individual	data['Date_N'].dt.year.value_counts()
To display the bar graph	data['Date_N'].dt.year.value_counts().plot(kind = 'bar', color = red')
TASK 5	
To show the no of movies and Tv show In the dataset	data.groupby('Category').Category.count()
To show the count plot	sns.countplot(x = 'Category', data=data)
TASK 6	
To separate the year in the date column	data['year'] = data['Date_N'].dt.year
To show the movies released in 2000	data[(data['Category'] == 'Movie') & (data['year'] == 2000)] BY USING FILTERING METHOD
To show the title of TV shows were released in India	data[(data['Category'] == 'TV Show') & (data['Country'] == 'India')] ['Title'] BY USING FILTERING METHOD
To show the top 10 directors who gave the highest no. of Tv shows and Movies	data['Director'].value_counts().head(10)
Show all the records where “category is movie and type is comedies” or “county is united kingdom”	data[(data['Category']=='Movie')&(data['Type']=='Comedies') (data['Country']=='United Kingdom')] BY USING FILTERING METHOD
To delete null values	new_data = data.dropna() new_data.reset_index(inplace = True)
To show the no. of Movies/Tv shows , tom cruise were cast	new_data[new_data['Cast'].str.contains('Tom Cruise')]
TASK 7	
To show the unique rating in the dataset	data['Rating'].nunique() data['Rating'].unique() BY USING UNIQUE METHOD
To show distribution of content ratings in a graph	piechart = px.pie(x, values= 'counts', names = 'Rating', title = 'Distribution of content ratings') piechart.show()
To check no of movies got “TV-14”rating in canada	data[(data['Category'] == 'Movie') & (data['Rating'] == 'TV-14') & (data['Country'] == 'Canada')].shape BY USING FILTERING METHOD
To check no. of TV shows got “R” after 2018	data[(data['Category'] == 'TV Show') & (data['Rating'] == 'R') & (data['year'] > 2018)] BY USING FILTERING METHOD

TASK 8	
To show max duration of a Movie/TV show	data['Minutes'].max() BY USING MAX METHOD
To show min duration of a Movie/TV show	data['Minutes'].min() BY USING MIN METHOD
TASK 9	
To show the country has highest no. of Tv shows	data_tvshow.Country.value_counts().head(1) BY USING COUNT METHOD
To show all the countries and no. of Tv shows in a graph	BY USING COUNT PLOT IN SEABORN
To compare each countries TV shows and Movies count in graph	data.groupby(['Category']).size().reset_index(name='counts') BY USING GROUPBY AND SIZE METHOD
TASK 10	
To sort the dataset by year	data.sort_values(by = 'year') BY USING SORT METHOD
To Show the count of movies/tv shows released in a year in line chart	BY USING LINE CHART IN MATPLOTLIB
To Show the Top 5 directors	data['Director'].value_counts().head(5) BY USING VALUE_COUNTS METHOD