data['imdb_score']=data['imdb_score'].fillna(data['imdb_score'].mean()) In [5]: data.head(20) title type description release_year age_certification runtime genres production_countries seasons imdb_id imdb_score imdb_votes tmdb_popularity tmdb_score Out[5]: The Three Stooges were ['comedy', 'family', The Three Stooges SHOW TV-PG 15.424 ts20945 an American vaudeville 1934 19 'animation', 'action', ['US'] 26.0 tt0850645 8.6 1092.0 7.6 ['action', 'drama'. During America's Civil **1** tm19248 The General MOVIE NaN 78 'war', 'western', ['US'] 89766.0 8.647 8.0 War, Union spies steal 1926 NaN tt0017925 8.2 'comedy'... It's the hope that The Best Years of Our ['romance', 'war', **2** tm82253 MOVIE 171 8.435 sustains the spirit of 1946 NaN ['US'] NaN tt0036868 8.1 63026.0 7.8 Lives 'drama'] Hildy, the journalist ['comedy', 'drama', tm83884 former wife of 92 11.270 3 His Girl Friday MOVIE 1940 NaN ['US'] NaN tt0032599 7.8 57835.0 7.4 'romance'] newspaper... An aspiring actress ['thriller', 'drama', 1950 94 ['US'] 8.273 tm56584 In a Lonely Place MOVIE begins to suspect that NaN NaN tt0042593 7.9 30924.0 7.6 'romance'] A group of people ['US'] **5** tm160494 1939 NaN tt0031971 48149.0 11.786 Stagecoach MOVIE traveling on a NaN 96 ['western', 'drama'] 7.8 7.7 stagecoach fi... ['drama', 'family', A holiday favourite for It's a Wonderful Life MOVIE ['US'] tm87233 1946 PG 130 NaN tt0038650 8.6 444243.0 26.495 8.3 'fantasy', 'romance', generations... George... The life of Al Roberts. a ['thriller', 'drama', Detour MOVIE tm19424 1945 NaN 66 ['US'] NaN tt0037638 7.3 17233.0 7.757 7.2 pianist in a New Yor... 'crime'] Fifth Avenue socialite ['comedy', My Man Godfrey MOVIE **8** tm116781 Irene Bullock needs a 1936 NaN 95 ['US'] NaN tt0028010 8.0 23532.0 8.633 7.6 'romance', 'drama'] A young girl named 9 tm112005 Marihuana MOVIE Burma attends a beach 1936 NaN 57 ['US'] NaN tt0026683 4.0 864.0 3.748 3.6 ['crime', 'drama'] party... Intolerance: Love's The story of a poor Struggle Throughout MOVIE 197 ['US'] 7.7 15242.0 9.412 **10** tm22806 young woman, 1916 NaN ['history', 'drama'] NaN tt0006864 7.2 separated by ... the Ages A man working for the ['thriller', 'crime', 95 ['US'] **11** tm88001 The Stranger MOVIE War Crimes 1946 NaN NaN tt0038991 7.3 26293.0 7.566 7.3 'drama'] Commission su... A grotesquely disfigured The Phantom of the **12** tm141715 MOVIE 1925 101 ['US'] 7.5 18190.0 composer known as NaN ['horror'] NaN tt0016220 7.428 7.2 Opera "Th... High-school principal Dr. **13** tm112415 ['US'] 8617.0 Tell Your Children MOVIE 1938 PG 66 3.7 5.412 4.1 ['drama', 'crime'] NaN tt0028346 Alfred Carroll relat... When legendary hunter The Most Dangerous ['thriller', 'horror', tm2838 MOVIE 1932 63 8.828 14 Bob Rainsford is NaN ['US'] NaN tt0023238 7.1 12203.0 7.0 Game 'action'] shipwre... The Earnshaws are **15** tm155610 1939 17956.0 12.336 Wuthering Heights MOVIE Yorkshire farmers during NaN 104 ['drama', 'romance'] ['US'] NaN tt0032145 7.5 7.3 the... A seductive woman gets The Woman in the ['drama', 'thriller', ['US'] an innocent professor 16 tm3781 MOVIE 1944 NaN 99 NaN tt0037469 7.6 15909.0 6.018 7.5 Window 'crime'] ['drama', 'romance', The just out of college Steamboat Bill, Jr. MOVIE 70 17 tm3541 1928 NaN 'family', 'action', ['US'] NaN tt0019421 7.8 14499.0 7.754 7.7 effete son of a no-non... 'come... The ruthless, moneyed 18 tm82560 The Little Foxes MOVIE Hubbard clan lives in, 1941 NaN 115 ['romance', 'drama'] ['US'] NaN tt0033836 7.9 11775.0 5.906 7.5 After divorcing a society **19** tm64852 Stella Dallas MOVIE 1937 106 ['drama', 'romance'] 5440.0 5.377 6.9 NaN tt0029608 7.4 man, a small-town wo... pivot=pd.pivot_table(data,index="type",values="imdb_score",aggfunc='mean') print(pivot) In [7]: imdb_score type MOVIE 5.820003 6.957621 SHOW df=pd.DataFrame(data) new_data=df[data["genres"].str.contains("comedy")] new_data.head() imdb id imdb score imdb votes tmdb popularity tmdb score Out[9]: title type description release_year age_certification runtime genres production_countries seasons The Three The Three Stooges were an ['comedy', 'family', SHOW ts20945 1934 TV-PG 1092.0 15.424 19 ['US'] 26.0 tt0850645 8.6 7.6 Stooges 'animation', 'action', 'f... American vaudeville ... During America's Civil War, ['action', 'drama', 'war', **1** tm19248 The General MOVIE NaN ['US'] 89766.0 8.647 1926 78 NaN tt0017925 8.2 8.0 Union spies steal ... 'western', 'comedy'... ['comedy', 'drama', Hildy, the journalist former 92 3 tm83884 His Girl Friday MOVIE 1940 NaN NaN tt0032599 57835.0 11.270 ['US'] 7.8 7.4 wife of newspaper... 'romance'] It's a ['drama', 'family', A holiday favourite for **6** tm87233 Wonderful MOVIE 1946 PG 130 'fantasy', 'romance', ['US'] NaN tt0038650 444243.0 26.495 8.3 8.6 generations... George... Life ['comedy', 'romance', My Man Fifth Avenue socialite Irene MOVIE ['US'] 8 tm116781 1936 NaN 95 NaN tt0028010 8.0 23532.0 8.633 7.6 Godfrey Bullock needs a "... 'drama'] import pandas as pd In [12]: unique_genres = set() # Iterate through each list of genres and collect unique genres for genre_list in df['genres']: unique_genres.update(genre_list) print("Unique Genres:") for genre in unique_genres: print(genre) Unique Genres: u m У data=df[data["release_year"]>=2000] In [14]: data.head() Out[14]: description release_year age_certification runtime genres production_countries seasons imdb_id imdb_score imdb_votes tmdb_popularity tmdb_score title type A reality show contest **2217** ts20981 2000 TV-PG 48 24368.0 Survivor SHOW where sixteen or more ['reality'] ['US'] 42.0 tt0239195 7.4 73.107 7.3 Annie Wilson, young ['drama', 'thriller', **2225** tm28243 The Gift MOVIE widow and mother of 2000 R 112 'documentation', ['US'] NaN tt0219699 6.7 67946.0 14.202 6.4 three,... 'action... O Brother, MOVIE In the deep south during ['comedy', 'crime', PG-13 107 **2226** tm23114 2000 ['US', 'FR', 'GB'] NaN tt0190590 306270.0 19.293 7.3 7.7 Where Art Thou? the 1930s, three esca... 'music'] Chuck Nolan, a top **2235** tm21856 Cast Away MOVIE ['US'] international manager 2000 PG-13 143 ['drama', 'romance'] NaN tt0162222 7.8 569278.0 53.088 7.7 An ordinary man makes ['thriller', 'drama', 'scifi', **2236** tm18133 2000 PG-13 106 ['US'] NaN tt0217869 410474.0 30.819 Unbreakable MOVIE an extraordinary 7.3 7.1 'european'] discove... data = data[[len(genres) > 0 for genres in data['genres']]] In [32]: data.info() <class 'pandas.core.frame.DataFrame'> Int64Index: 7147 entries, 2217 to 9870 Data columns (total 15 columns): Column Non-Null Count Dtype -----0 id 7147 non-null object 1 title 7147 non-null object 7147 non-null 2 object type 7035 non-null 3 object description 7147 non-null 4 release_year int64 5 age_certification 2437 non-null object 6 7147 non-null runtime int64 7147 non-null 7 genres object production_countries 7147 non-null 8 object 9 seasons 1227 non-null float64 10 imdb_id 6570 non-null object 11 imdb_score 7147 non-null float64 12 imdb_votes 6238 non-null float64 13 tmdb_popularity 6634 non-null float64 14 tmdb_score 5498 non-null float64 dtypes: float64(5), int64(2), object(8) memory usage: 893.4+ KB

In [3]: **import** pandas **as** pd

import numpy as np

In [16]: df.to_csv('revised_data.csv')

data=pd.read_csv("D:\\IPSITA\\amazon_prime.csv")