NAME-AKSHAY ANAND

PROJECT DESCRIPTION: Dataset having various columns of different IMDB Movies.

APPROACH: WE USED MS EXCEL FOR DATA CLEANING AND FUNCTIONS TO CALCULATE

REQUIRED PARAMETERS FROM THE DATASET PROVIDED.

TECH-STACK USED: MS-EXCEL

INSIGHTS: EXPLAINED WITH EACH PLOT.

Cleaning the data:: This is one of the most important step to perform before moving forward with the analysis. Use your knowledge learned till now to do this. (Dropping columns, removing null values, etc.)

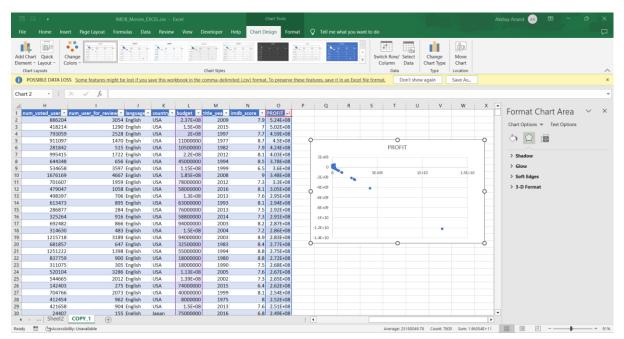
Your task: Clean the data

Columns like 'Color', 'director_facebook_likes', 'actor_3_facebook_likes, 'actor_2_name', 'actor_1_facebook_likes', 'cast_total_facebook_likes, 'actor_3_name', 'facenumber_in_posts', 'plot_keywords', 'movie_imdb_link', 'content_rating', 'actor_2_facebook_likes', 'aspect_ratio', 'movie_facebook_likes' are the columns which have been dropped. Also dropped rows having null values. At the end we got rid of duplicate values using Remove Duplicates in data tab.

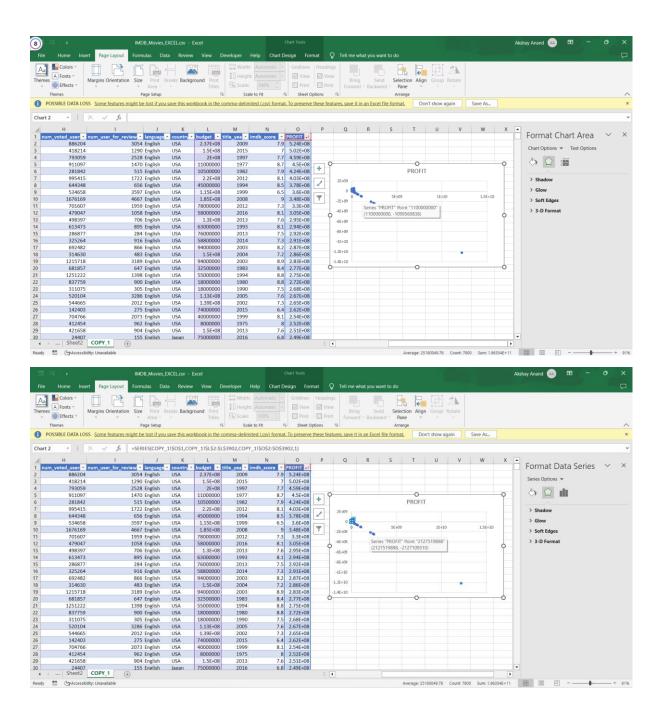
Movies with highest profit: Create a new column called profit which contains the difference of the two columns: gross and budget. Sort the column using the profit column as reference. Plot profit (y-axis) vs budget (x- axis) and observe the outliers using the appropriate chart type.

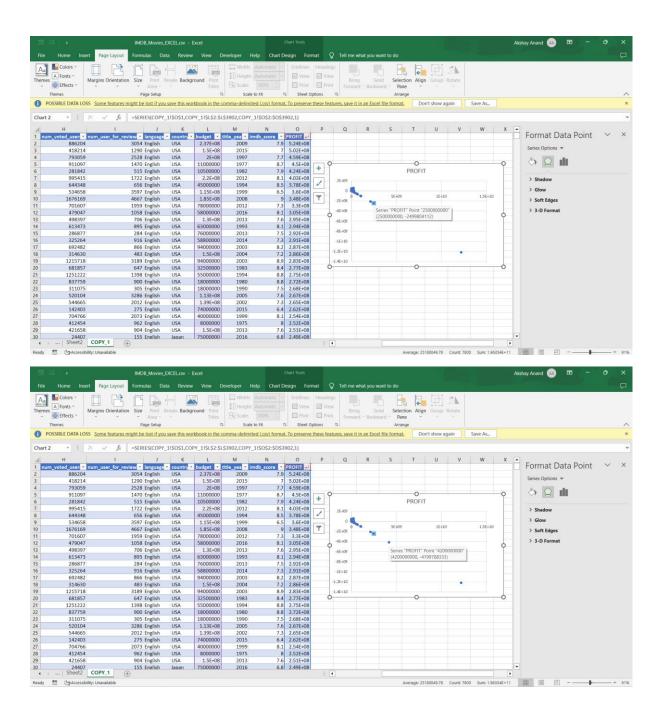
OUTLIERS->

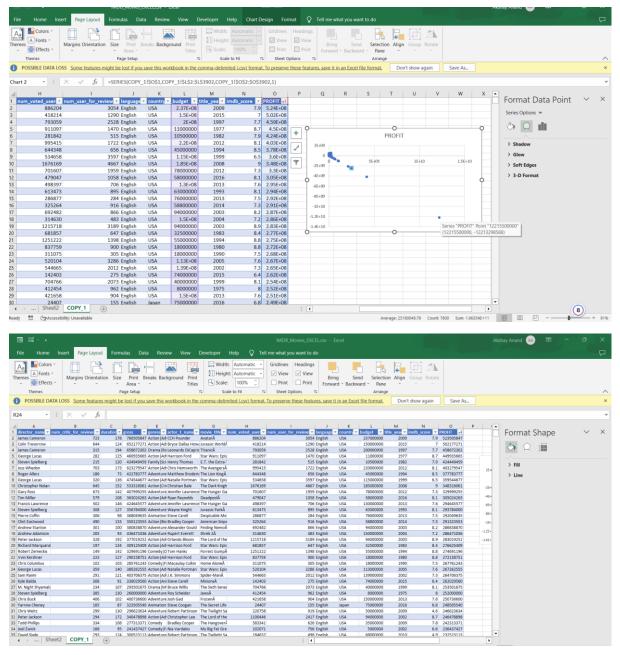
 $\hbox{-}1099560838, \hbox{-}2127109510, \hbox{-}2499804112, \hbox{-}4199788333, \hbox{-}12213298588$



POINTS THAT ARE SIGNIFICANTLY AWAY FROM THE EXPECTED RANGE ARE CALLED OUTLIERS. FROM THE GRAPH WE CAN CLEARLY SEE OUTLIERS.





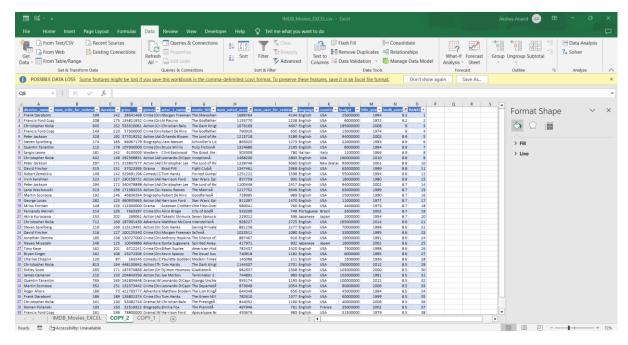


THE MOVIE WITH THE HIGHEST PROFIT IS AvatarÂ.

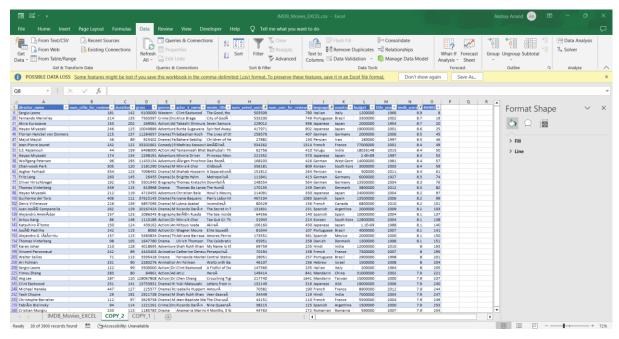
Top 250: Create a new column IMDb_Top_250 and store the top 250 movies with the highest IMDb Rating (corresponding to the column: imdb_score). Also make sure that for all of these movies, the num_voted_users is greater than 25,000. Also add a Rank column containing the values 1 to 250 indicating the ranks of the corresponding films.

Extract all the movies in the IMDb_Top_250 column which are not in the English language and store them in a new column

named Top_Foreign_Lang_Film. You can use your own imagination also! **Your task:** Find IMDB Top 250



TOP 250 NOT IN ENGLISH



RANKING DONE USING FORMULA:

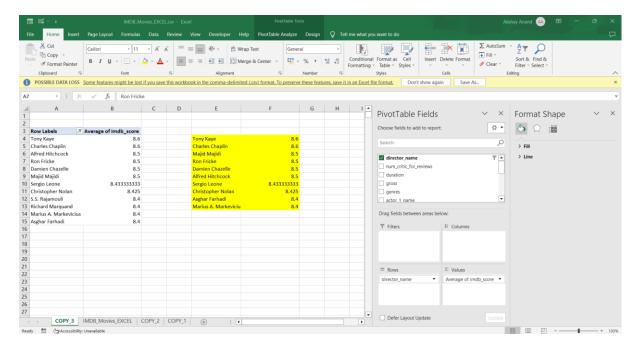
=RANK([@[imdb_score]],\$N\$2:\$N\$262,0)+COUNTIFS(\$N\$2:N9,N9)-1.

WE USED SORTING AND FILTERS TO GET DESIRED OUTPUT.

Best Directors: Group the column using the director_name column.

Find out the top 10 directors for whom the mean of imdb_score is the highest and store them in a new column top10director. In case of a tie in IMDb score between two directors, sort them alphabetically.

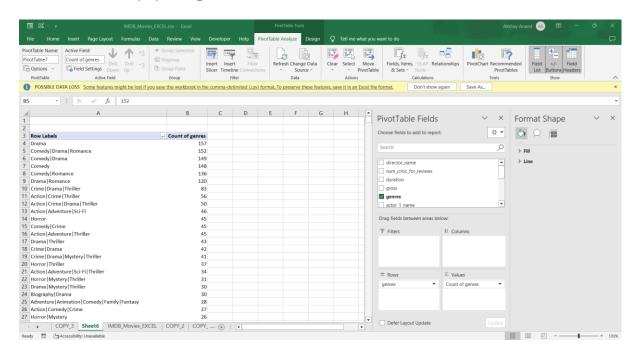
Your task: Find the best directors



WE USED PIVOT TABLES TO SORT DATA BASED ON IMDB SCORE.

Popular Genres: Perform this step using the knowledge gained while performing previous steps.

Your task: Find popular genres



WE USED PIVOT TABLES TO SORT DATA BASED ON THE COUNT OF GENRES.

Charts: Create three new columns namely, Meryl_Streep, Leo_Caprio, and Brad_Pitt which contain the movies in which the actors: 'Meryl Streep', 'Leonardo DiCaprio', and 'Brad Pitt' are the lead actors. Use only the actor_1_name column for extraction. Also, make sure that you use the names 'Meryl Streep', 'Leonardo DiCaprio', and 'Brad Pitt' for the said extraction.

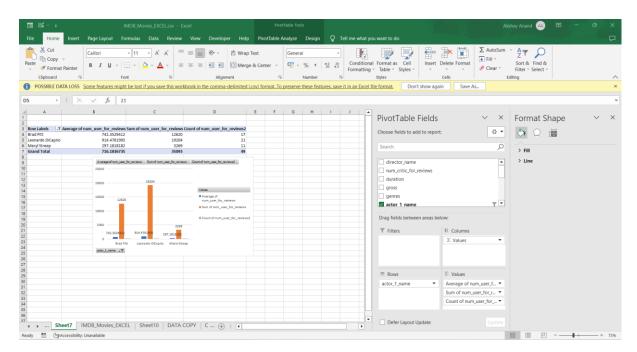
Append the rows of all these columns and store them in a new column named Combined.

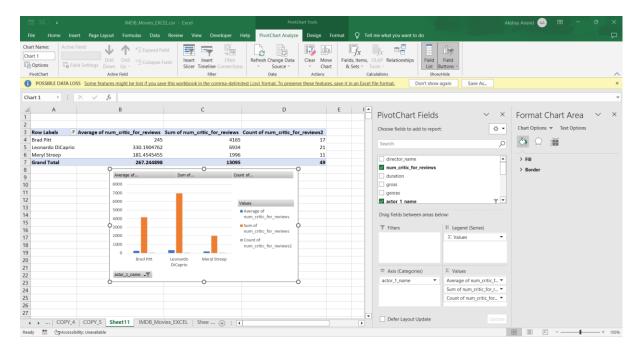
Group the combined column using the actor_1_name column.

Find the mean of the num_critic_for_reviews and num_users_for_review and identify the actors which have the highest mean.

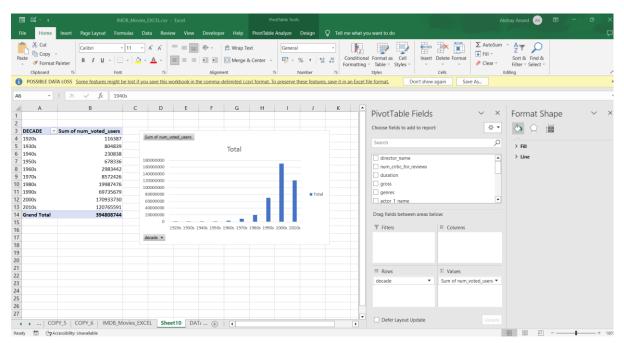
Observe the change in number of voted users over decades using a bar chart. Create a column called decade which represents the decade to which every movie belongs to. For example, the title_year year 1923, 1925 should be stored as 1920s. Sort the column based on the column decade, group it by decade and find the sum of users voted in each decade. Store this in a new data frame called df_by_decade.

Your task: Find the critic-favorite and audience-favorite actors





FROM ABOVE IT IS CLEAR THAT LEONARDO DICAPRIO IS BOTH THE CRITIC FAVOURITE AND THE AUDIENCE FAVOURITE ACTOR.



DECADES HAVE BEEN MADE BY: =FLOOR(M2,10) & "s"

WE USED PIVOT TABLES TO DRAW/PLOT GRAPHS.

RESULT: WE USED MS EXCEL FUNCTIONS SUCH AS FORMULAE, SORT, FILTER, PIVOT TABLES ETC TO PERFORM AN ANALYSIS OF THE DATASET AND GET INSIGHTS.