IMDB Movie Analysis

9.30

9090 Brief:

This project is about the analysis of Movies rated through IMDB. Here as a data analyst, I have to find some metrics regarding the movies and actors according to rating and people and critics likings. The job data set is provided through excel sheet where movie name, actor_1, 2,3 names, number of people voted, facebook likes of actor_1,2,3, language of movie, gross and budget of the movies, imdb overall ratings, number of critics rated, genres and country of origin.

The project is classified into different objectives:

- To find out the top movies with highest profit and scatter plot of gross and budget of movies
- To find out the top 250 movies according to imdb rating and foreign language films among them
- To find out the top 10 directors according to average imdb ratings received
- To find out the top 10 genres of the movies according to the average imdb ratings received
- To find out the top actors among the Brad Pitt, Leonardo di Caprio and Meryl Streep according to average of number of users and critic reviews
- To plot the decade with respect to number of users voted in each year

Approach:

To derive the insights and results mentioned above, dataset is cleaned where unwanted columns re removed and then then blanks from the respective usable columns for the insights are removed using the sort function. Aft.er sorting, calculation is done suing the excel function and then graph is plotted. For questions d,e,f – pivot table is used where average field settings are used.

Details of the excel is given here through this <u>link</u>

Tech-Stack Used:

Excel is Used to perform the analysis.

Q- A	Here the q-1 is about basic formatting of the data based on the question requirement				
	movie_title AvatarÂ	gross 7.61E+0 8	budget 2.37E+08	profit 52350584 7	

	П	6.52E+0		50217727	
Q-B	Jurassic WorldÂ	8	1.5E+08	1	
	Tarassic Transaction	6.59E+0	1.02 - 00	45867230	
	TitanicÂ	8	2E+08	2	
		4.61E+0	1100000	44993566	1
	Star Wars: Episode IV - A New HopeÂ	8	0	5	
	·	4.35E+0	1050000	42444945	
	E.T. the Extra-TerrestrialÂ	8	0	9	
		6.23E+0		40327954	
	The AvengersÂ	8	2.2E+08	7	
	•	6.23E+0		40327954	
	The AvengersÂ	8	2.2E+08	7	
		4.23E+0	4500000	37778377	
	The Lion KingÂ	8	0	7	
	Star Wars: Episode I - The Phantom	4.75E+0	4.455.00	35954467	
	MenaceÂ	8	1.15E+08	24024606	
	The Dark KnightÂ	5.33E+0 8	1.85E+08	34831606 1	
	THE Dark KHIGHTA		1.035+00	<u> </u>	l
	Note: Top 10 movies by Profit is shown				
	Note: 10p 10 movies by Front is snown				
Q-C	 Here movie, number of users voted, imdb score and language is extracted and then number of users whether greater than 25000 is checked using Or function. All the true results are then ranked from 1 -250 and placed. From the Ranked results foreign language column is created using the IF function to 			All the	
	check whether they are English or foreign language Director's name and imdb score is extracted. Then pivot table is created to extracted.			act the	
	average IMDB score and then Top 10 is formed.				
		Average of			
	Top_10 Directors	imdb_score			
	Charles Chaplin		8.6		
	Tony Kaye		8.6		
	Alfred Hitchcock		8.5		
Q- D	Damien Chazelle		8.5		
Q- D	Majid Majidi		8.5		
	Ron Fricke		8.5		
	Sergio Leone	8.433	333333		
	Asghar Farhadi		8.4		
	Christopher Nolan		8.4		
	Marius A. Markevicius		8.4		
	IVIGITUS A. IVIGINEVICIUS		0.4		

Richard Marquand	8.4	
S.S. Rajamouli	8.4	

Genre's name and imdb score is extracted. Then pivot table is created to extract the average IMDB score and then Top 10 is formed.

Q- E

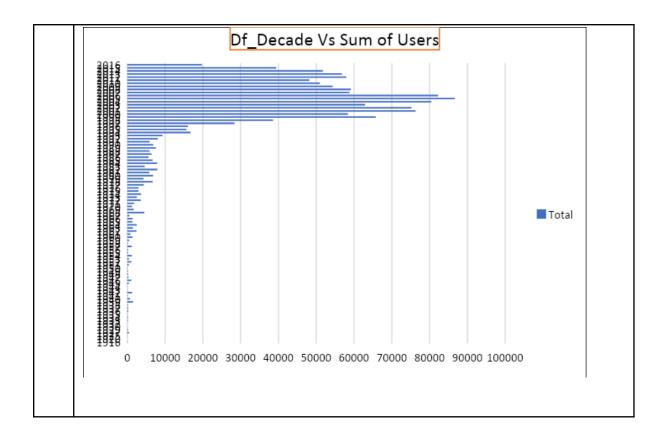
Top_10 Genres	Average of imdb_score
Adventure Animation Drama Family Musical	8.5
Crime Drama Fantasy Mystery	8.5
Action Adventure Drama Fantasy War	8.4
Adventure Animation Fantasy	8.4
Adventure Drama Thriller War	8.4
Adventure Animation Comedy Drama Family Fantasy	8.3
Biography Drama History Music	8.3
Documentary Drama Sport	8.3
Documentary War	8.3
Adventure Drama War	8.25

Actor_1 name, number of users, number of critics for review and title year is extracted in r. Then pivot table is created to extract the average number of users, average number of critics in respect of three actors — Brad Pitt, Leonardo, Dicaprio and Merl Streep and title year as df_decade in new column is created. Then using the average number of users, average number of critics Top 10 is formed. From the df_decade vs number if users bar graph is plotted.

	Average of
Actor_1 Name	num_user_for_reviews
Leonardo DiCaprio	914.4761905
Brad Pitt	702.444444
Meryl Streep	257.3076923

Q- F

	Average of
Actor_1 Name	num_critic_for_reviews
Leonardo	
DiCaprio	330.1904762
Brad Pitt	231.9444444
Meryl Streep	163.1538462



Insights:

From this project I have derived certain insights that helps in better understanding:

- From the analysis, I have obtained top 10 movies with highest profit, The profit is obtained by subtracting the gross and budgeted columns. Then for all the movies according to profits are plotted in scatter plots with outliers.
- Top 250 movies according to imdb ratings are extracted using the if function where true options are taken where number of users greater than 25000. Then they are ranked from 1-250. After that a new column (Foreign language) according to language where English and Foreign language are segregated using the if function.
- Top 10 directors according average imdb ratings is extracted using the pivot function and sort function.
- Top 10 genres of the films according average imdb ratings is extracted using the pivot function and sort function.
- Top actor among Brad Pitt, Leonardo, Dicaprio and Merl Streep according to the average critic reviews and number of users voted is obtained using the pivot the sort function.
- The number of users is plotted against the decade where the title year is considered in a bar plot.

Result:

Through this project, it is found the different metrics of the movie market analysis and it effects the investment in a movie.

Through this project, I have learnt how database is used to generate business usable insights. The Business analyst views have developed and I can leverage that to use in other live projects