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**Group - 20**

**Course**- ADTA 5250 – Large Data Visualization

**FINAL PROJECT**

As a part of our course final project, we have created a dashboard using the “**Movies Metadata**” dataset which contains different details about movies that were released from 1916 to 2016.

**Dataset Reference:** <https://www.kaggle.com/datasets/tmdb/tmdb-movie-metadata>

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* We are reporters from **“International Movies Today”** and our focus is to make a report on the budget spent by the movies and their gross earnings across the globe.



* We are delivering the insights to the Finance Team of “**International Movies Today”** News. Their main task is to see how much countries are spending on movies.

**Objectives**

1. To gain insights on how much budget is spent by the countries on movies.
2. How much do movies earn in different countries?
3. Check the average IMDB scores of movies by country.
4. Top Genres that have the highest gross earnings.

**Sheet 1: Average IMDB Score for Each Country-** This sheet gives the average IMDB that each country has based on the movies produced there.

* We have used a bar chart to represent the average IMDB scores for each country because it would be easier to recognize the trends and patterns. It is easier to compare different sets of data and get insights clearly.

Graphical user interface

Description automatically generated with low confidence

**Sheet 2: Total Budget-** This sheet gives thetotal Budget spent by different countries on movie production.

* For the total budget, we have used a text table as it would clearly tell us the budget spent on movies by that country.

Graphical user interface, application

Description automatically generated

**Sheet 3: Total Gross-** This sheet gives the total gross earnings movies have earned in different countries.

* For the Total Gross, we have used a text table as it would clearly tell the gross earnings made by the country on movies.

Graphical user interface, application

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**Sheet 4: Year-** This sheet is a filter, where we have filtered out the years. We have a slider to filter the years. The filtered years are from 2001-2016 and these years are used as action items for the final dashboard where selecting a particular year would show the overall budget and gross for that particular year.

* For the Year, we have used a combination Line chart and circles which would help us to select a particular year and which in return will give the required values.

A picture containing table

Description automatically generated

**Sheet 5: Country**- This sheet is the map of the countries that are present in the dataset where the movies are produced. This sheet is also used as an action item in the final dashboard, where selecting one country from the map will give the budget and gross for that country.

* For the country field, we have used a geographical map which would easily help us understand which country we are selecting for the insights.

Graphical user interface, application, website, map

Description automatically generated

**Sheet 6: Genres-** The final sheet is the chart for top-performing genres. It is a parameter that consists of the top 5 movie genres that have the highest gross earnings.

* For the Genres field, we have again used a bar chart that helps to identify the trends and patterns easily.

Graphical user interface, text, application

Description automatically generated

**Final Dashboard**

* Now we have consolidated all the sheets into a single dashboard to make it interactive. We can clearly see that when we are selecting any year, the remaining sheets are changing accordingly. Again, when we are selecting a particular country, we can see that the values are changing according to the country.

Graphical user interface, application

Description automatically generated

**Interactivity**

* Let us select a year, let it be 2006. Then we select a country, let it be the USA. Now the whole dashboard sheets are changed.

Graphical user interface, application

Description automatically generated

**Insights**

* The total budget spent in 2006 by the USA was $4869.9 Million.
* The total gross earnings in 2006 were $6961.7 Million, which shows that the movies performed well that year since the gross is higher than the budget.
* The average IMDB score for the USA in 2006 is 6.3 which tells us that most of the movies performed decently at the box office.
* The top-performing movie genre in 2006 in the USA based on the gross was Comedy|Romance, which means that people were more interested in watching Comedy movies rather than any other genres.

**Text, whiteboard

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* Now the Finance team of “**International Movies Today**” can make a report on:
* The countries that are spending more on movies.
* How much does a country earn from movies.
* The reason for movies is to spend huge amounts of money on movies.
* The profits earned from the movies and the reasons for movies not earning much.
* The reason for the low IMDB ratings on movies.
* The Movie Genres that people enjoy watching.

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