# **Report On Movie Industry Insight Dashboard**

### 1. Introduction:

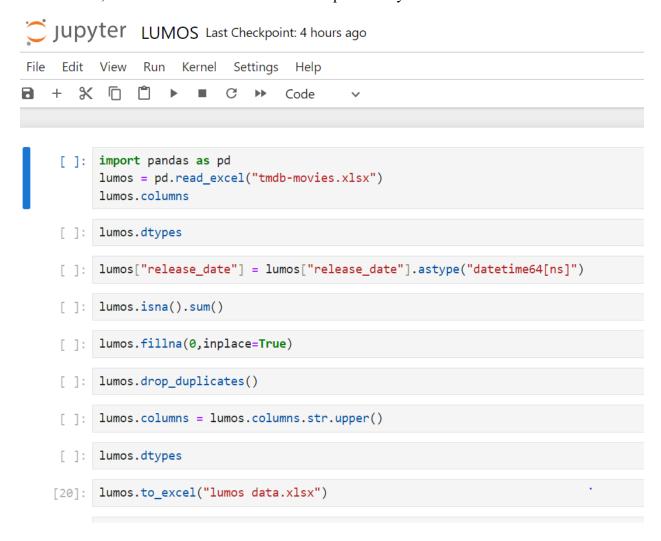
This report presents an analysis of the movie industry, focusing on budget, revenue, genre performance, and top-grossing movies. The data was preprocessed using Python, analyzed in Excel, and visualized using Power BI to create an insightful dashboard.

# 2. Data Preprocessing with Python:

Python was utilized for the initial data preprocessing to ensure the dataset was clean and ready for analysis. The preprocessing steps included:

Handling Missing Values: Missing values in the dataset were identified and handled appropriately. For instance, missing revenue or budget figures were filled with median values or removed based on relevance.

Data Transformation: Columns such as Release Date were converted into datetime formats, and new columns were created, such as Release Year for better temporal analysis.



## 3. Data Analysis in Excel:

After preprocessing, the data was exported to Excel for further analysis. In Excel:

Pivot Tables: Pivot tables were created to summarize key metrics, such as the total budget and revenue by year and genre, and the number of movies released each year.

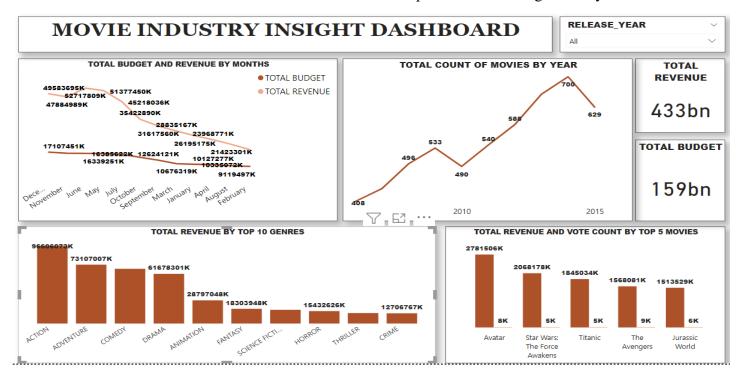
Calculations: Various calculations were performed, such as average revenue per genre and identifying the top 10 genres based on total revenue.

Insights: These tables helped in deriving insights such as the most profitable genres and the trend in movie releases over the years.

D 1 1	Sum of REVENUE	Sum of BUDGET	Row Labels V Sum of	REVENUE	Row Labels	Sum of REVENUE	Sum of VOTE COUN
June	52,717,808,548		⊕ ACTION	96,606,072,845	Avatar	2,781,505,847	8.458
Mav	51,377,449,994		B ADVENTURE	73.107.006.764	Star Wars: The For	2,068,178,225	5,292
,					Titanic		,
December	49,583,695,232		⊕ COMEDY	67,952,461,496		1,845,034,188	4,675
November	47,884,989,395	16,504,271,703	⊕ DRAMA	61,678,301,024	The Avengers	1,568,080,742	9,024
July	45,218,036,371	15,923,977,659	<b>■ ANIMATION</b>	28,797,048,213	Jurassic World	1,513,528,810	5,562
October	35,422,890,071	14,221,885,681	<b>⊞ FANTASY</b>	18,303,948,327	Furious 7	1,506,249,360	2,947
September	31,617,559,745	12,624,120,522	<b>■ SCIENCE FICTION</b>	17,046,401,611	Avengers: Age of L	1,405,035,767	4,304
March	28,835,167,123	10,676,319,440	<b>⊞ HORROR</b>	15,432,626,119	Harry Potter and t	1,327,817,822	3,750
January	26,195,175,298	10,335,072,062	⊕ THRILLER	13,003,269,735	Frozen	1,277,284,869	3,691
April	23,968,771,020	10,127,276,544	<b>⊞ CRIME</b>	12,706,767,478	Iron Man 3	1,215,439,994	6,882
August	21,423,300,771	9,558,123,016	<b>⊞ FAMILY</b>	8,854,452,778	Grand Total	16,508,155,624	54,585
February	18,475,349,307	9,119,497,414	<b>⊞ ROMANCE</b>	7,046,888,501			
Grand Total	432,720,192,875	158,922,868,089	<b>■ MYSTERY</b>	3,019,881,629			
			⊕ WAR	2,708,551,908			
			<b>⊞ MUSIC</b>	2,304,615,926			
Row Labels 📲	Count of ID	Sum of REVENUE	<b>⊞ HISTORY</b>	1,951,867,180	Sum of REVENUE	Sum of BUDGET	Sum of VOTE_COUN
2015	629	26,762,450,518	<b>■ WESTERN</b>	1,305,819,749	432,720,192,875	158,922,868,089	2,362,157
2014	700	24,331,150,183	<b>⊞ DOCUMENTARY</b>	852,211,592			
2013	659	24,703,633,017	<b>⊞ TV MOVIE</b>	42,000,000			
2012	588	24,668,428,824	<b>⊞ FOREIGN</b>	-			
2011	540	23,695,591,578	Grand Total	432,720,192,875			
2010	490	21,959,998,545			TOTAL REVENUE	432,720,192,875	
2009	533	22.180.170.559			TOTAL BUDGET	158,922,868,089	

### 4. Visualization in Power BI:

Power BI was then used to create an interactive dashboard that presents the findings visually:



**Total Budget and Revenue by Month**: A line chart compares the total budget and revenue generated across different months, highlighting seasonal trends in movie releases and earnings.

**Total Count of Movies by Year**: A line chart shows the number of movies released each year, identifying peaks and trends over time.

**Total Revenue by Top 10 Genres**: A bar chart displays the top 10 genres by revenue, showing which genres are the most lucrative.

**Total Revenue and Vote Count by Top 5 Movies**: Another bar chart compares the revenue and audience vote count for the top 5 highest-grossing movies, providing insight into their popularity and financial success.

Key Metrics: Total revenue and budget are prominently displayed, summarizing the overall financial scope of the dataset.

# 5. Conclusion:

The Movie Industry Insight Dashboard provides a comprehensive overview of the movie industry's financial landscape. By preprocessing the data in Python, conducting detailed analysis in Excel, and visualizing the results in Power BI, we were able to identify key trends and insights that can guide decision-making in areas such as genre investment and release timing.