🎬 Movie Data Analysis Project

1. Project Overview

This project analyses movie data using Microsoft Excel and Power BI. The goal is to uncover trends in genres, ratings, revenues, and other metrics to support insights in the film industry and improve content or marketing strategies.

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2. Tools Used

- Microsoft Excel
- Power BI

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3. Dataset

- **Source:** (Movie Metadata)
- **Data contains:**
    - Title_Year
    - Movie_title
    - Genre
    - Revenue
    - Director Name
    - IMDb Score
    - Content rating
    - Budget
    - Language
    - Country

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4. Steps Followed

1. Cleaned the raw data in Excel (handled missing values, corrected data types, formatted columns & removed special characters)
2. Performed initial analysis using formulas, filters, and Pivot Tables in Excel
3. Imported cleaned data into Power BI
4. Created interactive dashboards with visuals such as line chart, clustered bar chart, clustered column chart, donut chart, area chart and cards.

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5. Key Insights

- Action and Drama are the most frequently produced genres
- Calculated average of IMDB score by title year
- The top 10 highest-grossing movies were identified by summing gross revenue and applying a Top N filter to the results.
- The count of movie titles was displayed by IMDb score, with the scores grouped into 9 bins
- The visualization shows the top 10 genres by total budget, analysed in relation to IMDb scores
- Top 5 movie titles filtered by content rating

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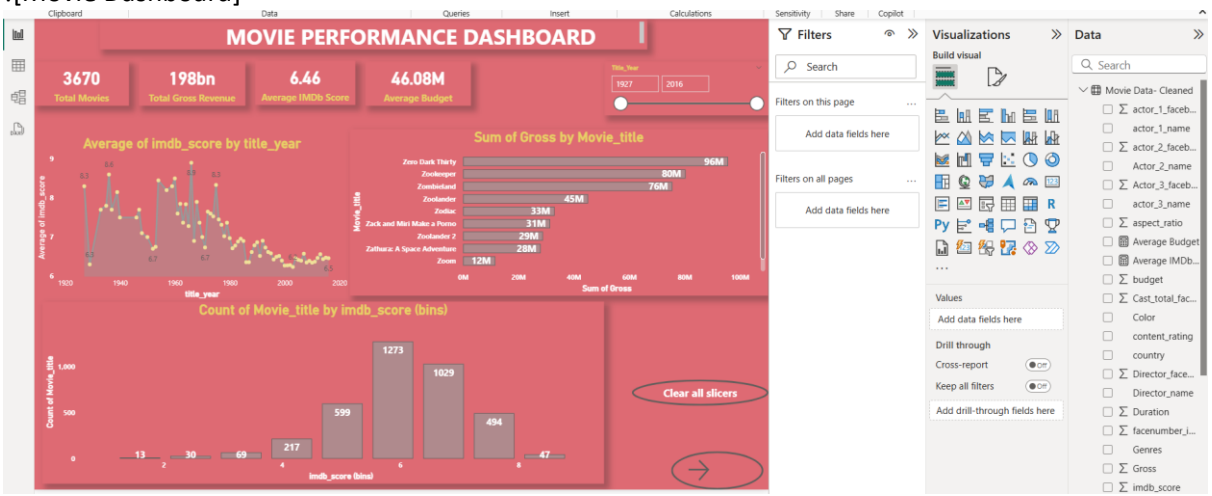
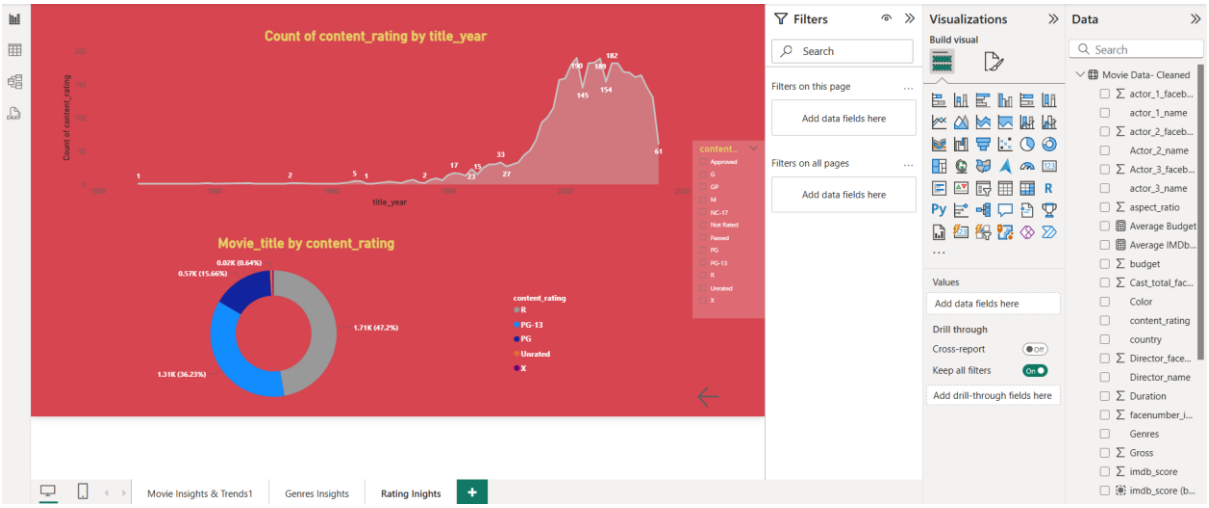
6. Screenshots

![Movie Dashboard]





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7. Files Included

- movies_data_cleaned.xlsx – Cleaned and preprocessed data
- movie_dashboard.pbix – Power BI dashboard file
- README.md – Project report

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8. How to Use

1. Open movies_data_cleaned.xlsx to view or modify the data
2. Open movie_dashboard.pbix using Power BI Desktop to interact with the dashboard
3. Use filters to explore specific years, genres, or countries