Power BI Documentation – Latest Movies Dashboard

This documentation explains the structure, data sources, transformations, and visuals used in the Power BI dashboard for the Latest Movies Analysis project.

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1. Data Sources

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- Python-cleaned dataset (from latest_movies_analysis.ipynb)

- SQL outputs from PostgreSQL (Latest movies analysis queries.sql)

- Power BI visuals (latest_movies_analysis_dashboard.pbix)

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2. Data Model Overview

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The dataset contains:

- title

- popularity_score

- vote_average

- vote_count

- release_date

- original_language

All fields were imported as a single fact table.

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3. DAX Measures Used

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Average Rating:

```
AVERAGE(Movie[vote_average])
```

Total Movies:

```
COUNT(Movie[title])
```

Normalized Popularity:

```
DIVIDE(Movie[popularity_score], MAX(Movie[popularity_score]))
```

Top Language Movies Ranking:

```
RANKX(ALL(Movie[title]), Movie[popularity_score], , DESC)
```

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4. Visuals & Layout

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Page 1: Overview

- KPI cards

- Donut charts

- Summary text

Page 2: Popularity Analysis

- Top 10 popular movies

- Popularity trend line chart

- Popularity vs vote count scatter

Page 3: Language Insights

- Movies per language column chart

- Top movies by language matrix

- Language slicer

Page 4: Ratings & Votes

- Highest vote count movies

- Highest rated English films

- Vote distribution histogram

Page 5: Release Trends

- Release volume by year

- Monthly heatmap

- Line chart for yearly popularity

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5. Interactivity

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Slicers included:

- Language

- Release Date

- Popularity Range

- Vote Count Category

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6. Refresh Instructions

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1. Open latest_movies_analysis_dashboard.pbix

2. Go to “Transform Data”

3. Ensure SQL server/database connection paths are correct

4. Click “Refresh All”

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7. Version Control Notes

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• Dashboard version: Latest_movies_analysis_dashboard.pbix

• SQL version: Latest movies analysis queries.sql

• Python version: latest_movies_analysis.ipynb