

## 1. Stacked Bar Chart – Total Revenue by Country

- **Case Study Question:** Which countries generated the highest revenue for movies over the past three years? How do these earnings vary across countries?
  - **Instructions:**
    - Use a **stacked bar chart** to display **total gross income** by **country**.
    - **X-Axis:** Country
    - **Y-Axis:** Sum of Worldwide Gross Income
    - **Legend:** Year
    - **Formatting:** Assign **distinct colors** to each year for clear comparisons.
    - **Data Labels:** Display **revenue figures** for each segment.
    - **Interactivity:** Connect this chart with a **slicer** for **genre** to see how different genres perform in each country.
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## 2. Line Chart – Revenue Trends Over Time

- **Case Study Question:** What are the revenue trends for movies over the past three years, and are there particular peaks or troughs during specific periods?
  - **Instructions:**
    - Plot a **line chart** showing **monthly or quarterly revenue** across the past three years.
    - **X-Axis:** Date or Quarter
    - **Y-Axis:** Worldwide Gross Income
    - **Formatting:** Choose a **color** for the line that contrasts with the background; add **markers** for each data point.
    - **Data Labels:** Include **revenue figures** at **peak** and **low** points to highlight trends.
    - **DAX Calculation:** Use DAX to calculate **moving averages** or **year-over-year growth** as an overlay line for better trend analysis.
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## 3. Map Visualization – Revenue by Country

- **Case Study Question:** Which geographic regions outside India have shown strong movie revenue? Which regions have potential for RSVP's global release?
  - **Instructions:**
    - Use a **map visualization** to represent **revenue by country**, with **color gradients** indicating revenue volume.
    - **Location:** Country
    - **Values:** Worldwide Gross Income
    - **Formatting:** Apply a **color scale** from light to dark to highlight high-revenue regions.
    - **Data Labels:** Add **revenue figures** to tooltips for detailed information when hovering over the map.
    - **Interactivity:** Link to a **slider** for **year** or **genre**, allowing exploration of revenue changes by **year** or **genre**.
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#### 4. Stacked Column Chart – Revenue by Genre

- **Case Study Question:** Which movie genres have generated the most revenue globally, and how does genre popularity vary by region?
  - **Instructions:**
    - Use a **stacked column chart** to show **total revenue by genre**.
    - **Legend:** Year
    - **X-Axis:** Genre
    - **Y-Axis:** Worldwide Gross Income
    - **Formatting:** Assign **distinct colors** to each genre.
    - **Data Labels:** Display **revenue amounts** on each genre segment.
    - **Interactivity:** Connect this chart to **sliders** for **country** or **year** to observe how genre popularity shifts.
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#### 5. Donut Chart – Genre Distribution

- **Case Study Question:** What is the overall distribution of genres for movies released in the past three years?

- **Instructions:**
    - Create a **donut chart** showing the **percentage share of each genre**.
    - **Formatting:** Use **contrasting colors** for each genre segment.
    - **Data Labels:** Display **genre names** and their **percentage share** within the donut.
    - **Slicer Integration:** Use a **slicer for year** to show genre distribution trends over time.
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## 6. Table Visualization – Top Performers (Actors, Actresses, Directors)

- **Case Study Question:** Who are the top actors, actresses, and directors for movies released in the past three years, based on average ratings?
  - **Instructions:**
    - Create a **table** listing each person (actor, actress, or director) with columns for **name**, **role (actor/actress/director)**, **movie title**, **average median rating**.
    - **Formatting:** Apply alternating row colors for readability and adjust column widths.
    - **Data Labels:** Use **conditional formatting** to highlight **top-performing individuals** based on average rating.
    - **Interactivity:** Link with **slicers** for **genre**, **year**, and **country** to filter the table dynamically.
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## 7. KPI Card – Total Revenue

- **Case Study Question:** What is the total revenue generated globally for movies released in the past three years?
  - **Instructions:**
    - Create a **KPI card** to display **total revenue** for all movies.
    - **Formatting:** Use bold and large fonts to make the figure prominent.
    - **DAX Calculation:** Use **SUM** to calculate the **total worldwide gross income**.
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## 8. KPI Card – Top Production Company

- **Case Study Question:** Which production company has generated the highest revenue globally, and what is its total revenue?
  - **Instructions:**
    - Create a **KPI card** to display the **highest revenue-generating production company**.
    - **Formatting:** Use bold and large fonts for visibility.
    - **DAX Calculation:** Use **TOPN** to retrieve the production company with the highest **worldwide gross income**.
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## 9. KPI Card – Top Actor/Actress Based on Average Median Rating

- **Case Study Question:** Which actor or actress has the highest average movie rating, and how does it compare to other actors/actresses?
  - **Instructions:**
    - Create a **KPI card** to display the **top actor/actress based on average median rating**.
    - **Formatting:** Use bold and large fonts to display the name of the top actor/actress.
    - **DAX Calculation:** Use **TOPN** and **AVERAGE** to get the actor/actress with the highest **average median rating**.
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## 10. Clustered Column Chart – Top 10 Production Companies outside India

- **Case Study Question:** Which are the **Top 10 production companies outside India** based on **average rating**, and how does it vary across different genres and years?
- **Instructions:**
  - Create a **clustered column chart** to show **Top 10 production companies** based on **average rating**.
  - **X-Axis:** Production Company
  - **Y-Axis:** AvgRating
  - **Legend:** Language

- **Formatting:** Assign **distinct colors** for each language for clarity.
- **DAX Calculation:** Use **DAX** to get the **Top 10** production companies based on **average rating**.
- **Interactivity:** Add slicers for **year**, **genre**, and **country** to dynamically filter the data.