

Detailed Step-by-Step Procedure in Power BI

1. Load the Dataset

1. Open Power BI Desktop.

2. Click on Home > Get Data > Text/CSV.

3. Browse and select the uploaded amazon_prime_titles.csv file.

4. Click Load to import the data.

i) Create a Donut Chart to Show Percentage of Movies and TV Shows

Steps

1. In the Report View, click on the empty canvas.
2. From the Visualizations Pane, select the Donut Chart icon.
3. Drag the type column from the Fields Pane into:

Legend: To display "Movie" and "TV Show".

Values: Power BI will automatically count occurrences.

4. Customize the chart:

Go to Format (paint roller icon) > Detail Labels.

Set the label style to display percentages.

5. Add a meaningful title by clicking on the chart title and editing it (e.g., "Distribution of Movies and TV Shows").

ii) Create an Area Chart to Show Content by Release Year and Type

Steps

1. Click on an empty area of the canvas.
2. From the Visualizations Pane, select the Area Chart icon.
3. Drag the following columns into the chart fields:

Axis: Drag release_year.

Legend: Drag type to differentiate between "Movie" and "TV Show".

Values: Drag show_id (set aggregation to "Count").

4. Format the chart:

Go to Format > X-Axis, and set the axis type to "Categorical".

Add data labels for better readability.

iii) Create a Horizontal Bar Chart to Show Top 10 Genres

Steps

1. Prepare data in Power BI:

In Power Query Editor (click Transform Data), split the listed_in column:

Select listed_in > Split Column > By Delimiter (use ",").

Unpivot the columns to normalize genres.

Rename the new column to Genres.

Close and Apply.

2. In the Report View, click on the empty canvas.

3. Select the Stacked Bar Chart visualization.

4. Drag the following columns into the chart fields:

Axis: Drag Genres.

Values: Drag Genres again (set aggregation to "Count").

5. Filter the chart:

Click on the filter pane > Add Top N filter for the Genres field.

Set it to display the "Top 10" based on the count.

6. Customize the chart as needed.

iv) Create a Map to Display Total Shows by Country

Steps

1. Click on an empty area of the canvas.
2. Select the Map visualization from the Visualizations Pane.
3. Drag the following columns into the chart fields:

Location: Drag country.

Size: Drag show_id (set aggregation to "Count").

4. Format the map:

Go to Format > Map Controls, and enable or disable zoom controls.

Add a title (e.g., "Shows Distribution by Country").

v) Create a Text Table to Show the Description of Any Movie

Steps

1. Click on an empty area of the canvas.
2. Select the Table visualization.
3. Drag the following columns into the table fields:

title and description.

4. Add a slicer to filter specific movies:

Click on the empty canvas > Select the Slicer visualization.

Drag the title column into the slicer field.

5. Interact with the slicer to display descriptions for specific titles.

vi) Build an Interactive Dashboard

Steps

1. Arrange all the created visuals (Donut Chart, Area Chart, Horizontal Bar Chart, Map, and Text Table) on a single page.

2. Add slicers for interactivity:

Drag fields like type, release_year, or country into slicers.

Place slicers strategically for easy access.

3. Enable interactions:

Click on Format > Edit Interactions.

Set how visuals interact with slicers and each other (e.g., filtering or cross-highlighting).

4. Add a title to your dashboard:

Go to Insert > Text Box > Type "Amazon Prime Dataset Analysis Dashboard".

Additional Tips

Save your Power BI file regularly.

Test the dashboard interactivity to ensure proper filtering and linking between visuals.

Publish to Power BI Service (optional) for sharing with others.