Netflix Data Analysis Assessment

Assessment Questions

Categorization of Shows by Type

Identify and categorize the different types of shows (Movies vs. TV Shows) present in the dataset.

Country-wise Releases in the Last 5 Years

Analyze which countries have the highest number of releases in the last 5 years. Present the top countries along with the number of shows/movies released.

Trends in Movies vs. Shows Over the Last 5 Years

Analyze how the ratio of Movies to TV Shows has changed over the last 5 years across the top countries. Visualize this trend to show the evolution.

Most Frequent Cast Members in TV Shows and Movies

Identify the cast members who appear most frequently in TV Shows and Movies.

Adoption of Netflix in Top 10 Countries (Rating-wise)

Examine how Netflix's adoption varies across the top 10 countries based on the ratings of the shows/movies.

Impact of Duration and Number of Seasons on Viewership

Analyze whether the duration of movies or the number of seasons for TV shows impacts viewership. Present this with a suitable graphic.

Effectiveness of Descriptions on Viewership

Investigate if having a good description helps in increasing the viewership for shows or movies. Use sentiment analysis or length of description as a metric.

Task Instructions:

Data Cleaning

Handle missing values (e.g., missing director or cast information). Convert dates to appropriate formats. Create additional columns if needed, such as a 'Year' column extracted from 'date_added'.

Data Analysis

Perform appropriate group-by operations, aggregations, and visualizations for each of the questions above.

Visualization and Reporting

Create charts and graphs to visualize trends, distributions, and comparisons. Document

findings in a report with insights derived from the data.

Interpretation of Results

Provide a summary of insights for each question. Suggest any actionable recommendations based on the analysis.