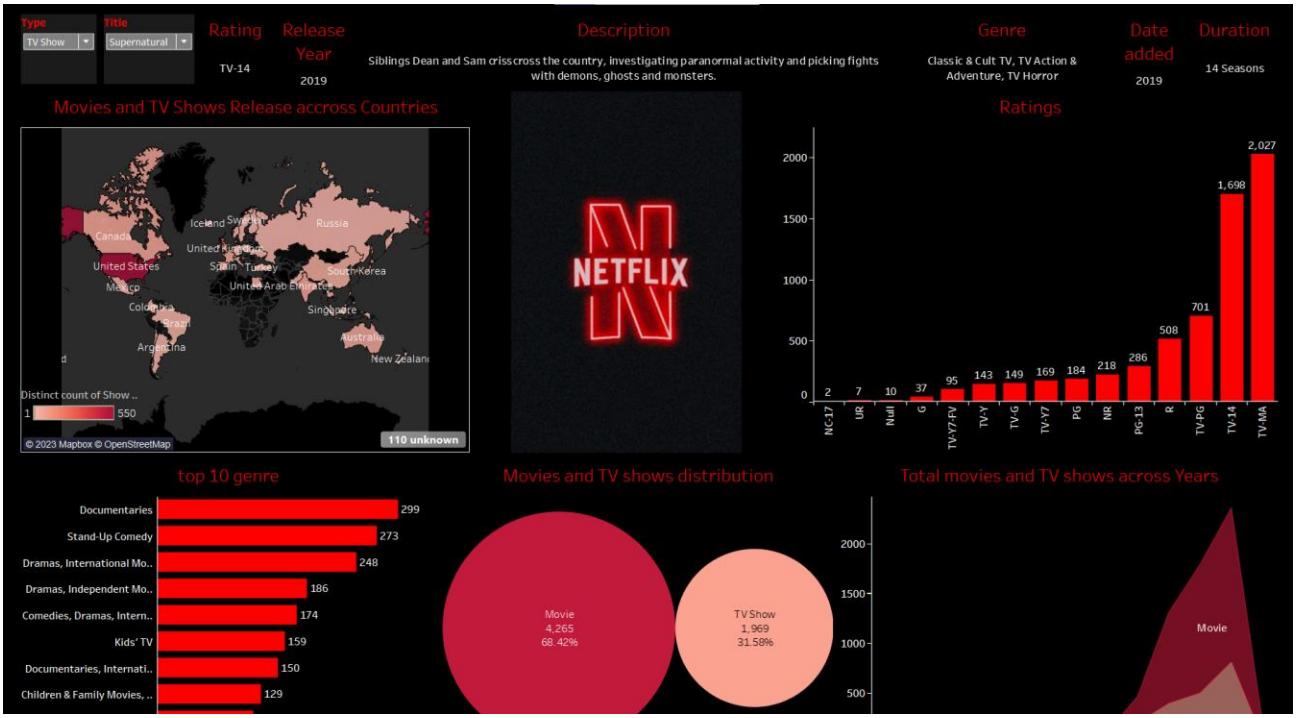
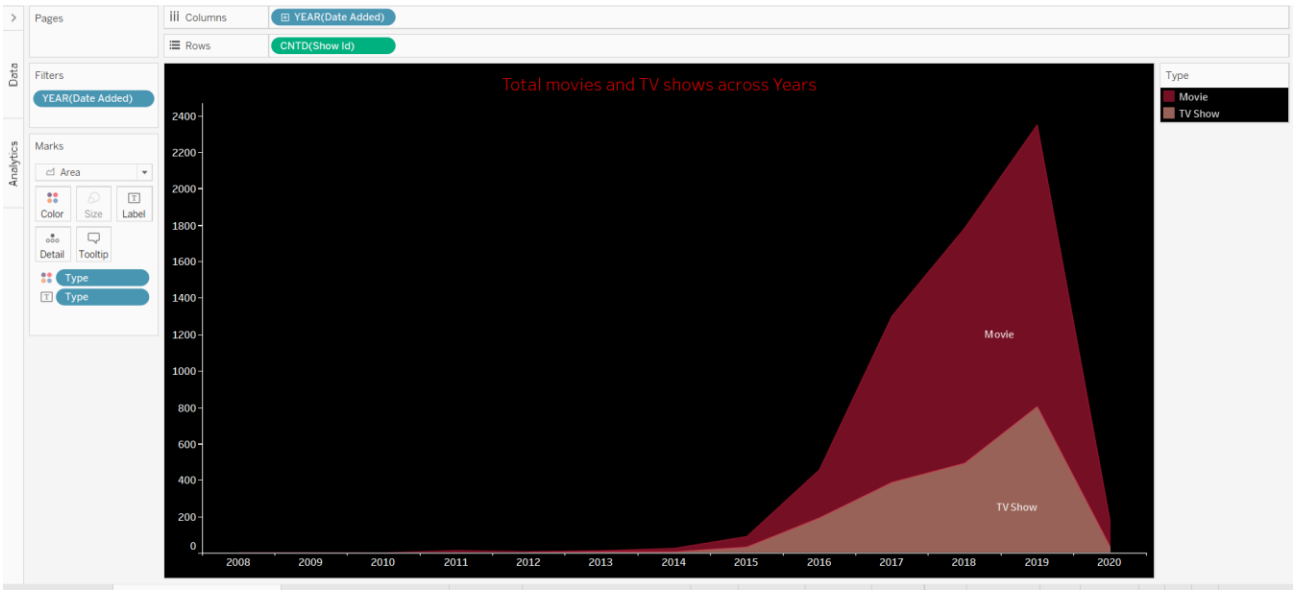
Data Visualization

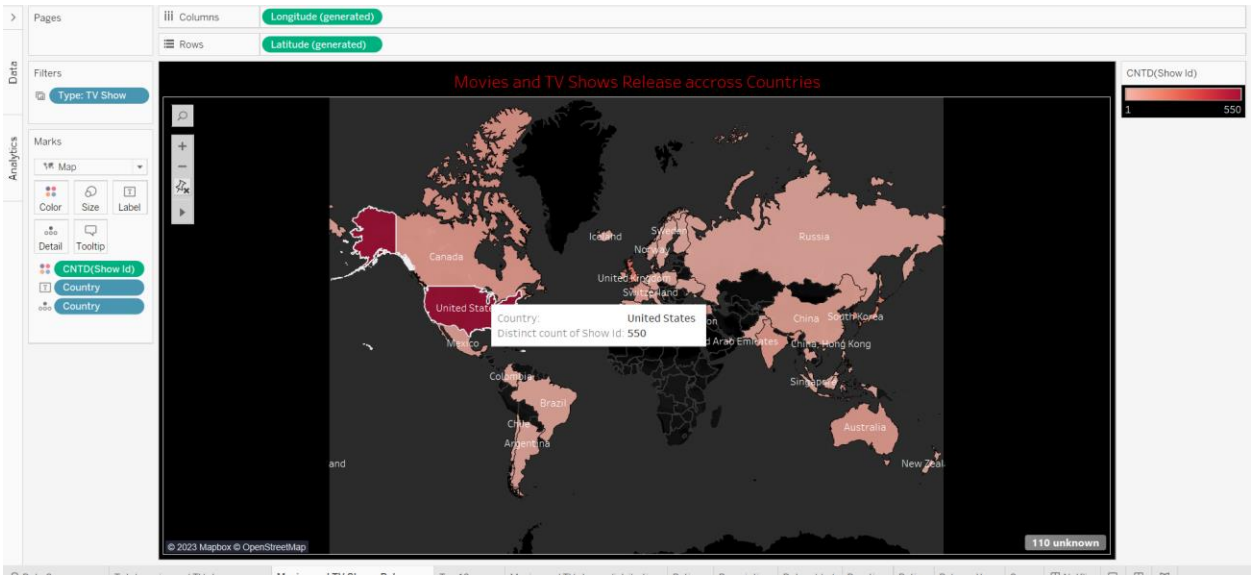
Assignment 6

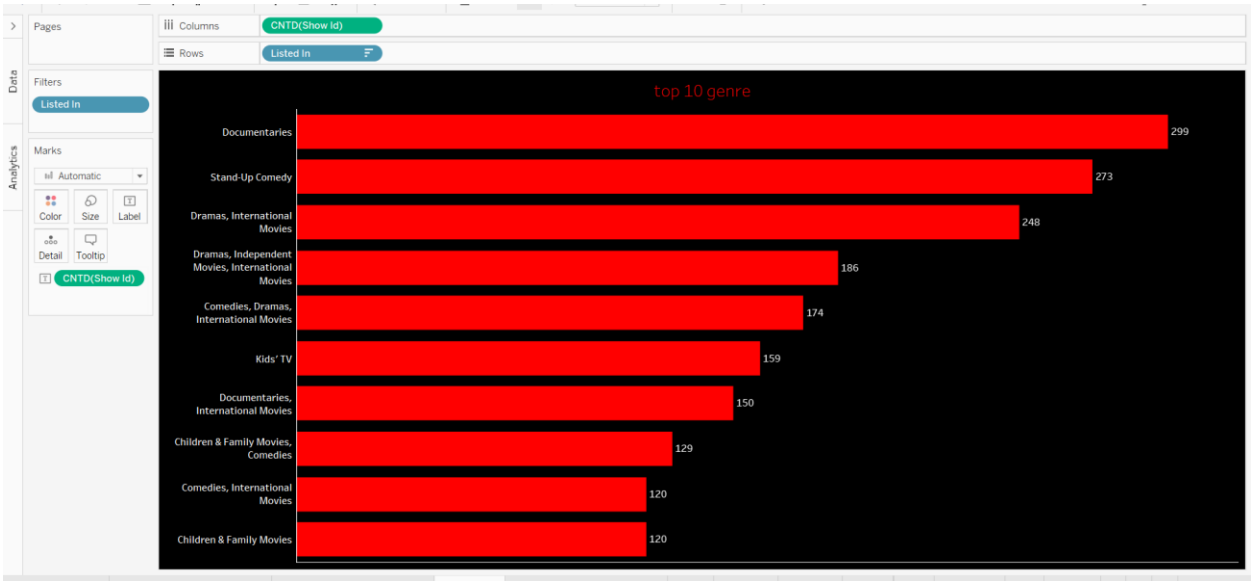
Name : Poorva Poorva

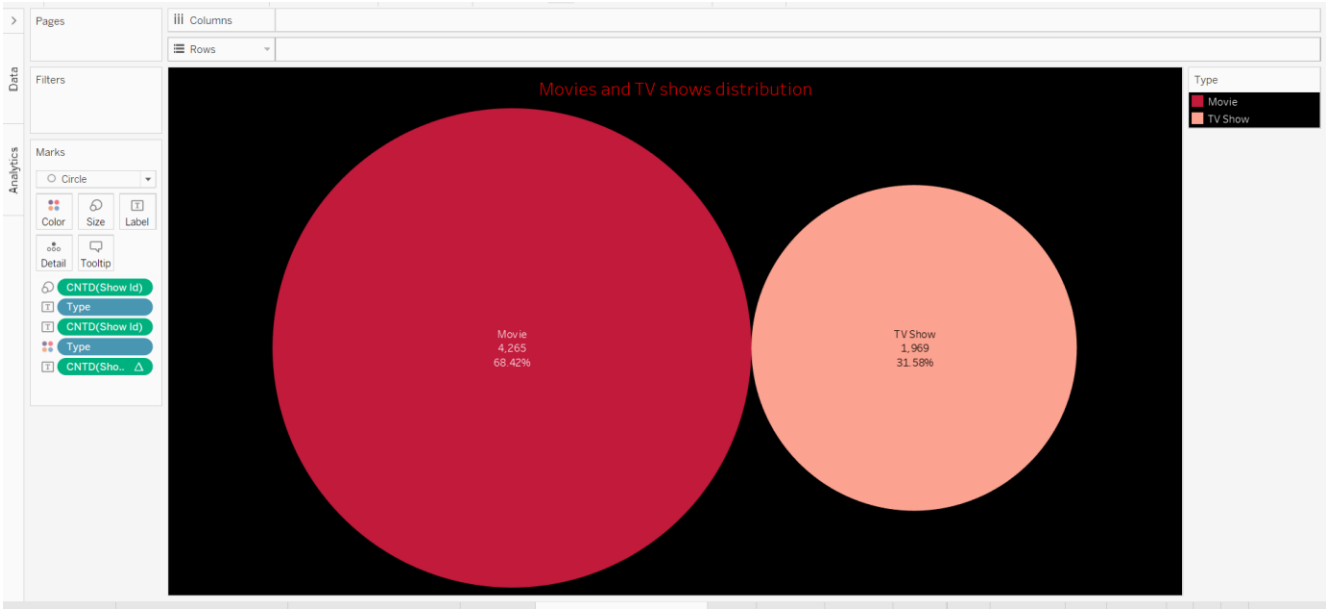
Netflix Dashboard

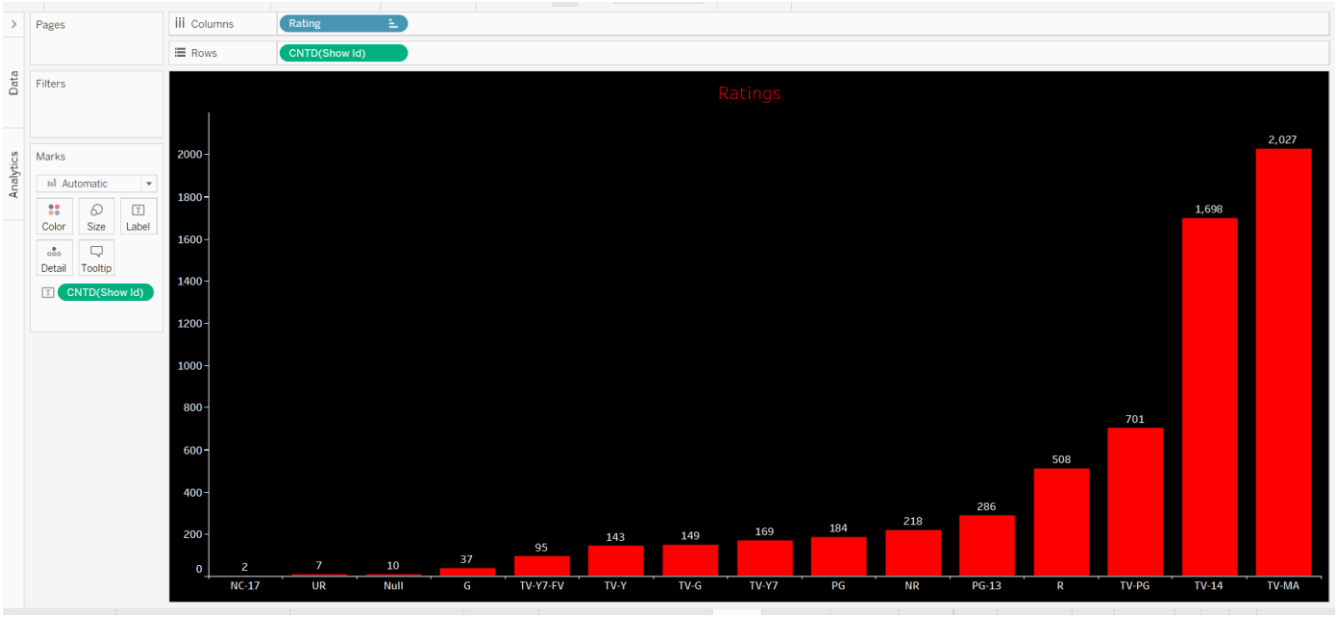


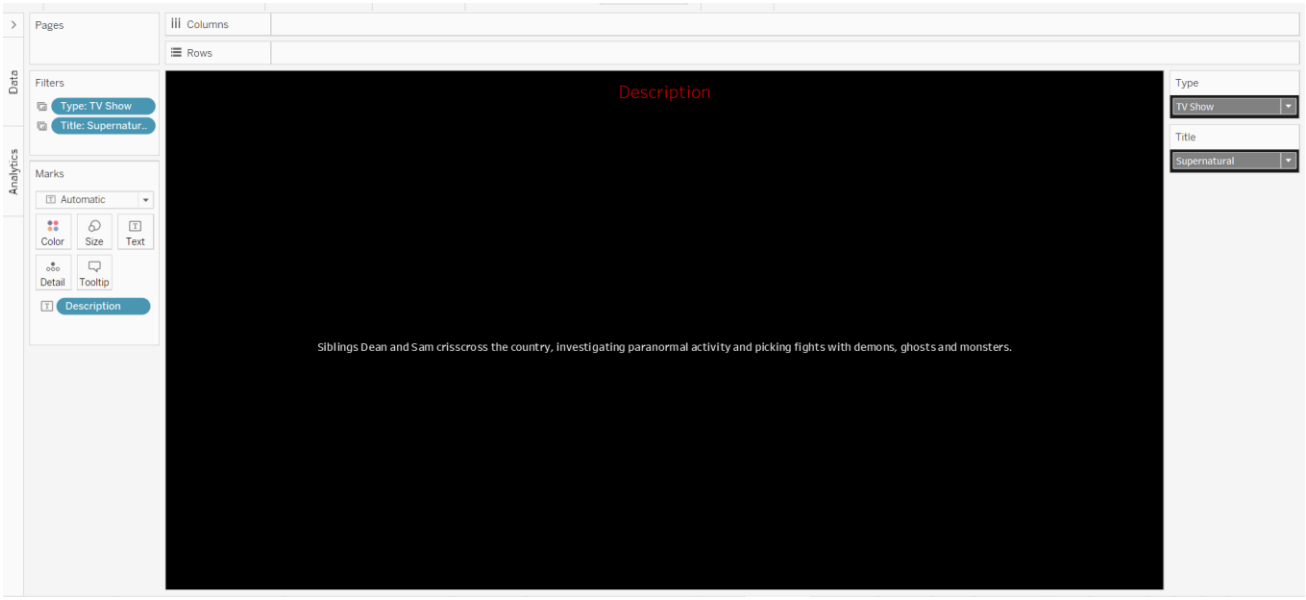

Pages
Columns
YEAR(Date Added)
Rows
CNTD(Show Id)
Filters
YEAR(Date Added)
Marks
Area
Color
Size
Label
Detail
Tooltip
Type
Type
Total movies and TV shows across Years
Type
Movie
TV Show
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
Movie
TV Show


Pages
Columns
Longitude (generated)
Rows
Latitude (generated)
Filters
Type: TV Show
Marks
Map
Color
Size
Label
Detail
Tooltip
CNTD(Show Id)
Country
Country
Movies and TV Shows Release accross Countries
CNTD(Show Id)
1
550
Canada
Russia
China
Brazil
Australia
Country: United States
Distinct count of Show Id: 550
© 2023 Mapbox © OpenStreetMap
110 unknown


Pages
Columns
CNTD(Show Id)
Rows
Listed In
Filters
Listed In
Marks
Automatic
Color
Size
Label
Detail
Tooltip
CNTD(Show Id)
Data
Analytics
top 10 genre
Documentaries
299
Stand-Up Comedy
273
Dramas, International Movies
248
Dramas, Independent Movies, International Movies
186
Comedies, Dramas, International Movies
174
Kids' TV
159
Documentaries, International Movies
150
Children & Family Movies, Comedies
129
Comedies, International Movies
120
Children & Family Movies
120

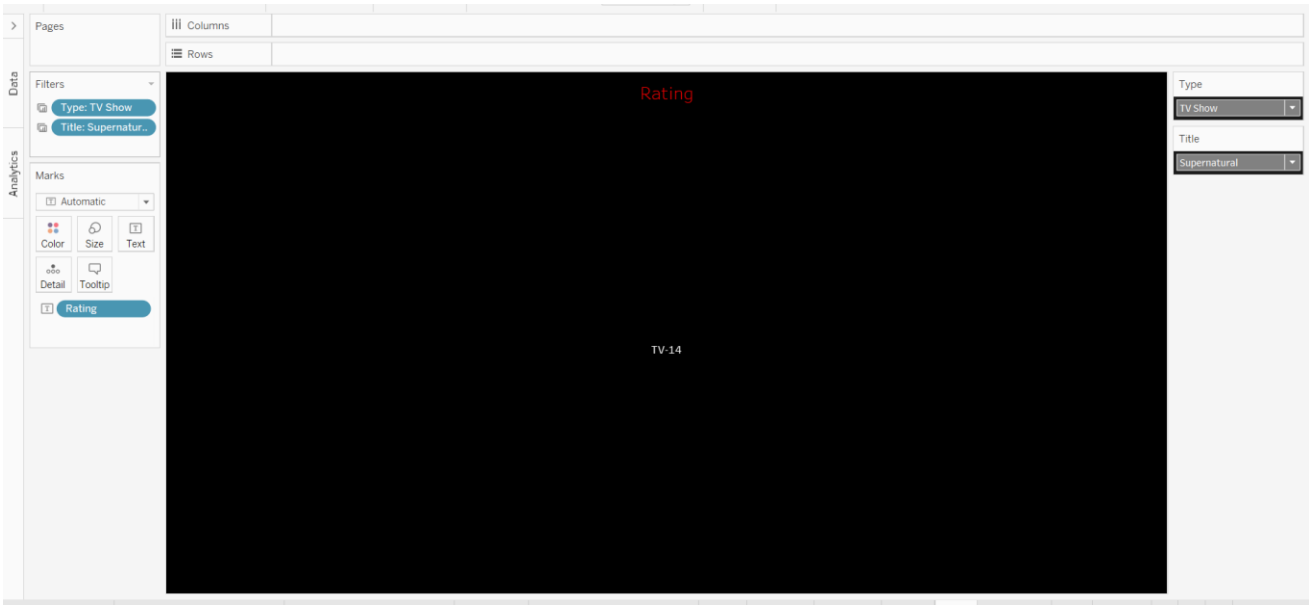

Pages
Columns
Rows
Filters
Marks
Circle
Color
Size
Label
Detail
Tooltip
CNTD(Show Id)
Type
CNTD(Show Id)
Type
CNTD(Sho..
Data
Analytics
Movies and TV shows distribution
Type
Movie
TV Show
Movie
4,265
68.42%
TV Show
1,969
31.58%


Pages
Columns
Rating
Rows
CNTD(Show Id)
Filters
Marks
Automatic
Color
Size
Label
Detail
Tooltip
CNTD(Show Id)
Data
Analytics
Ratings
2000
1800
1600
1400
1200
1000
800
600
400
200
0
2
7
10
37
95
143
149
169
184
218
286
508
701
1,698
2,027
NC-17
UR
Null
G
TV-Y7-FV
TV-Y
TV-G
TV-Y7
PG
NR
PG-13
R
TV-PG
TV-14
TV-MA

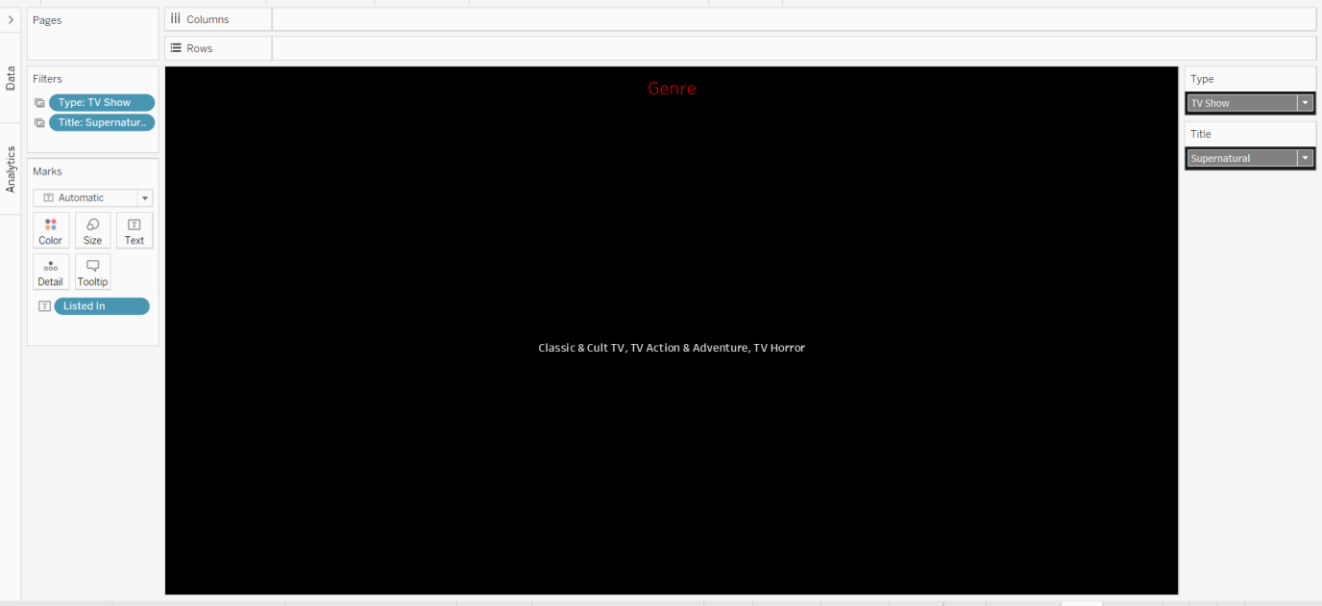

Pages
Columns
Rows
Filters
Type: TV Show
Title: Supernatur..
Marks
Automatic
Color
Size
Text
Detail
Tooltip
Description
Data
Analytics
Description
Siblings Dean and Sam crisscross the country, investigating paranormal activity and picking fights with demons, ghosts and monsters.
Type
TV Show
Title
Supernatural

Rows
Filters
Type: TV Show
Title: Supernatur..
Marks
Automatic
Color
Size
Text
Detail
Tooltip
YEAR(Date ..
Date added
2019
Type
TV Show
Title
Supernatural
Data
Analytics

Pages
Columns
Rows
Filters
Type: TV Show
Title: Supernatur..
Marks
Automatic
Color
Size
Text
Detail
Tooltip
Duration
Duration
14 Seasons
Type
TV Show
Title
Supernatural
Data
Analytics


Pages
Columns
Rows
Data
Analytics
Filters
Type: TV Show
Title: Supernatur..
Marks
Automatic
Color
Size
Text
Detail
Tooltip
Rating
Rating
TV-14
Type
TV Show
Title
Supernatural

Pages
Columns
Rows
Data
Analytics
Filters
Type: TV Show
Title: Supernatur..
Marks
Automatic
Color
Size
Text
Detail
Tooltip
Release Year
Release Year
2019
Release Year: 2019
Type
TV Show
Title
Supernatural



1. Can you provide more context or specify the type of Tableau workbook to be replicated, such as data visualization, dashboard, etc?

For my Tableau assignment, I have chosen a workbook that focuses on Netflix data. This workbook includes various visualizations such as bar charts, line charts, packed bubbles, and a map. It consists of multiple worksheets and features a well-designed dashboard that integrates all the visualizations.

One notable aspect of this workbook is its interactivity. Users could select different product categories, and as a result, all the visualizations within the dashboard dynamically change based on the selected category. This interactive feature enhances the user experience and allows for deeper exploration and analysis of Netflix data.

As part of my assignment, I will replicate this Tableau workbook. I will aim to recreate the visualizations, maintain their interactivity, and design a similar dashboard that integrates these visualizations seamlessly. By replicating this workbook, I intend to gain a better understanding of Tableau's functionalities, develop my skills in data visualization, and explore the insights that can be derived from Netflix data.

By closely studying and replicating this workbook, I will not only gain hands-on experience with Tableau, but also improve my proficiency in designing engaging and interactive data visualizations. This assignment presents an exciting opportunity to delve into the world of Tableau, explore the Netflix dataset, and gain valuable insights into the visual representation of data.

2. What criteria should be considered when choosing a workbook from the Tableau Public Gallery?

- Relevance: Look for workbooks that are closely aligned with our area of interest or the specific topic wanting to explore.
- Data Quality: The reliability and quality of the underlying data used. It's crucial to work with accurate and clean data to draw valid insights.
- Data Source Availability: Ensure that the data sources used in the workbook are accessible to everyone. If the workbook relies on proprietary or restricted data, it may be difficult to obtain.
- Visualization Techniques: Evaluate the effectiveness of the visualization techniques Used in the workbook. Pay attention to visualizations that effectively communicate data insights. Consider the appropriate use of charts, graphs, maps, and other visual elements.
- Interactivity: We can check if the workbook provides interactive features that allow us to explore the data further. Interactive elements like filters, tooltips, and drill-down capabilities enhance the user experience and enable further analysis.
- Documentation and Annotations: Look for workbooks that include comprehensive documentation, annotations, or explanatory text. These resources help in understanding the data sources, calculations, and visual choices made by the author, facilitating effective analysis.
- Performance: Assess the performance of the workbook, especially if it involves large datasets or complex calculations. A workbook that loads quickly and responds smoothly to user interactions provides a better user experience.
- By considering these criteria, one can choose a Tableau Public workbook from the gallery that suits your interests, analytical needs, and provides a solid foundation for exploring and visualizing data effectively.

3. What role does data source play in the replication process of a Tableau workbook?

The data source plays a crucial role in replicating a Tableau workbook as it serves as the foundation for analysis and visualization. Access to the same or similar data source ensures accurate and comparable results, making it an essential aspect of the replication process.

4. What impact does the level of complexity of the original workbook have on the replication process?

The complexity level of the original workbook significantly influences the replication process. Workbooks with high complexity involve intricate calculations, advanced analytical techniques, and sophisticated visualizations. Replicating such complexity requires a deep understanding of

Tableau's features. It may involve recreating calculations, comprehending complex data relationships, and replicating intricate visualizations.

5. What is the significance of documenting the replication process and what should be included in the documentation?

Documentation of the replication process holds great significance for reproducibility, and knowledge transfer. The documentation should comprise of details about the data source, steps taken for data preparation, specific Tableau techniques utilized, implemented calculations or formulas, and any modifications made during the replication process. Moreover, documenting challenges encountered, lessons learned, and assumptions made provides valuable insights for future reference.

6. How will the new knowledge gained from replicating the Tableau workbook contribute to future data analysis and visualization projects?

Replicating a Tableau workbook contributes to enhancing understanding of Tableau's capabilities. It aids in developing proficiency and expertise, enabling efficient and effective analysis. The insights gained from replication can give rise to new ideas and innovative solutions for future projects.

7. What challenges might arise in the replication process and how can they be addressed?

The replication process may present challenges, such as unavailability of the original data source, understanding of complex calculations or visualizations, missing documentation, or encountering issues with Tableau environment.

To address these challenges, alternative data sources can be explored, seeking guidance from professional or teacher, conducting thorough research, and breaking down complex components into manageable steps. Seeking assistance and documenting the process will help overcome challenges effectively.