Tableau Challenge

NOTE: You are given tasks for both Informatica and Tableau. You need to complete both challenges as part of the same challenge, and you can start with either challenge. Detailed problem statements for each task can be found in the respective problem statement PDFs in the path (**~Desktop/Project/kickoffs-t13-video_games-challenge/problem statements/)**

Tableau problem statement – tableau_video_games_problem_statement.pdf

Welcome to the Tableau challenge

You are provided with a dataset containing details of various video game sales information across different platforms, publishers, and regions. As a Tableau developer you need to use the data to perform the required visualizations to the given dataset.

To perform this task, you are provided with the files required are in the **"~Desktop/Project/kickoffs-t13-video_games-challenge"**.

Input files:

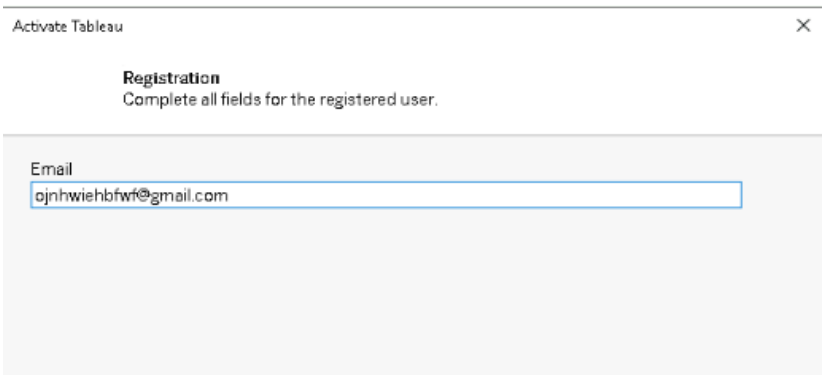
kickoffs-t13-video_games-challenge: This folder is available in the Project folder on the desktop.

Note:

- The **kickoffs-t13-video_games-challenge/inputfile/** folder consists of a file named **video_games_cleaned_data.csv** which will be the dataset that you shall perform the visualizations in an empty Tableau workbook with the name **Hackbook.twb which is in the path (Desktop/Project/kickoffs-t13-video_games-challenge/) so after completing of the solution save the hackbook in this path itself.**
- The **Output_Data/tableau/** folder is an empty folder where you can save the output data after the visualizations are performed.

Let's Begin!!!!

Follow the instructions that are given below to transform the cleaned csv data into the visualizations.



- Double click **Hackbook.twb** workbook will open in Tableau Desktop (**14-day trial version**) software
- When prompted for user information, enter random details and click **Proceed**.
- Create the sheets with the given chart titles following the instructions.

Task 1: Create Dual Axis Chart

Sheet Name: difference between na and jp sales per year

Chart Title: difference between na and jp sales per year

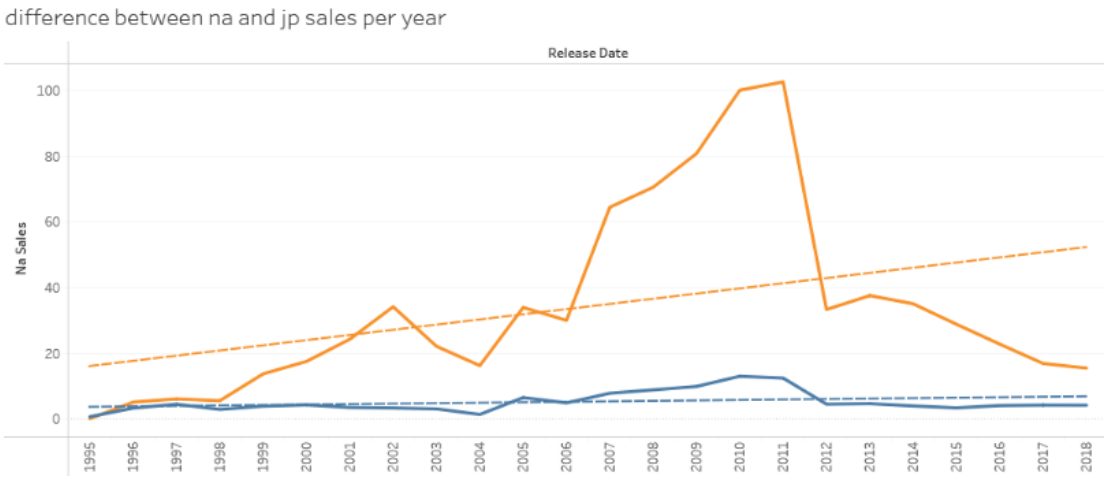
- Steps:

Columns: Year(Release Date).

Rows: SUM(NA Sales), SUM(JP Sales).

- Filters:
    - AVG(Total Sales) range of values between 1.046428571 to 3.
    - Filter null values in Year(Release Date).
- Synchronize the chart.
- In Marks Pane:
    - SUM(NA Sales) as Automatic.
    - SUM(JP Sales) as Line.
- Add a Trend Line.

Sample output:



Note: The sample output is given for your reference it may vary with the actual output

- After you perform the visualization. Export the data obtained.
- To export your data go to '**Analysis → View Data → download**'
- Save your file with the name – **na_jp_sales.csv**
- The path where you should save the data for the Sheet 1 is **'/Desktop/Project/kickoffs-t13-video_games-challenge/Output_Data/tableau/na_jp_sales.csv**

Task 2: Create Bar Chart

Sheet Name: count of titles per publisher

Chart Title: count of titles per publisher

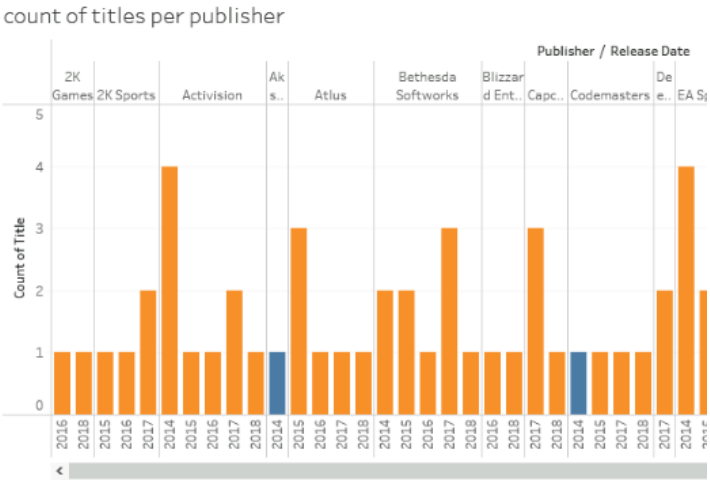
Steps :

Columns: Publisher, Year(Release Date).

Rows: CNT(Title).

- Filters:
  - CNT(Title) range of values between 1 to 4.
  - Filter null values in Year(Release Date).
- Create a calculated field named 'Update Status':
  - Formula: IF [Last Update] = 'No Updates' THEN 'Non-Updated' ELSE 'Updated' END
- In Marks Pane: Drag and drop **Update Status** into Color.

SAMPLE OUTPUT :



Note: The sample output is given for your reference it may vary with the actual output

- After you perform the visualization. Export the data obtained.
- To export your data, go to '**Analysis → View Data → Export All**'
- Save your file with the name – **published_games_count.csv**
- The path where you should save the data for the Sheet 2 is **/Desktop/Project/kickoffs-t13-video_games-challenge/Output_Data/tableau/published_games_count.csv**

Task 3: Create Area Chart

Sheet Name: console_total_sales

Chart Title: console_total_sales

Steps:

Columns: Genre, Year(Release Date)

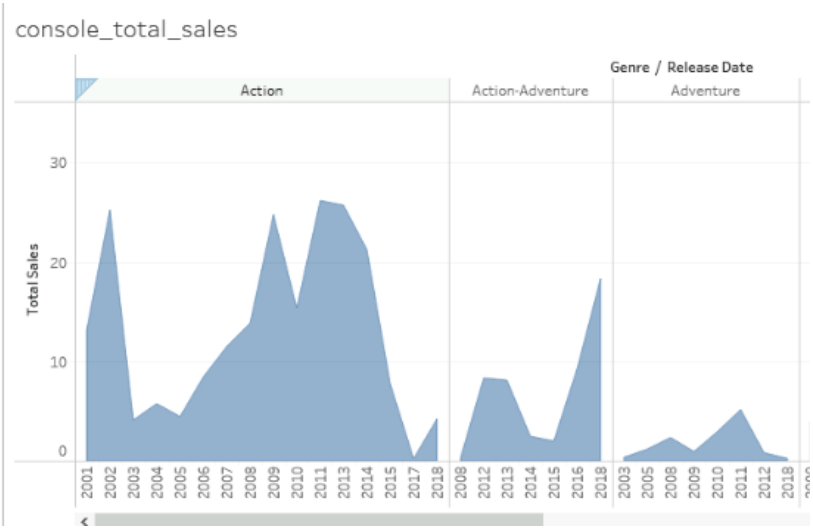
Rows: SUM(Total Sales)

- Filters:
    - Only include Consoles PS2, PS3, and PS4.

- Filter null values in Year(Release Date).

- In Marks Pane: Select Area.

SAMPLE OUTPUT :



Note: The sample output is given for your reference it may vary with the actual output

- After you perform the visualization. Export the data obtained.
- To export your data, go to '**Analysis → View Data → Export All**'
- Save your file with the name – **console_total_sales.csv**
- The path where you should save the csv data for the Sheet 3 is **'/Desktop/Project/kickoffs-t13-video_games-challenge challenge/Output_Data/tableau/console_total_sales.csv'.**

Validation:

- Before closing the environment, make sure that you have saved all your visualizations into the **Hackbook.twb** by going into **File->Save , keep Hackbook.twb file in this path(~/Desktop/Project/kickoffs-t13-video_games-challenge/)**
- Before closing the environment, ensure that all these output files are saved in the local directory with the output obtained after performing the visualizations.
  '/Desktop/Project/kickoffs-t13-video_games-challenge/Output_Data/tableau'

1. **na_jp_sales.csv**
2. **published_games_count.csv**

3. **console_total_sales.csv**

Right click on **sampletest.ps1** and click **'Run with Powershell'** to run the sample score.

Congratulations! You have completed your challenge. Sit, Relax & Wait for the Result