Solution Sheet: Creating an Ordered List of Unofficial Holidays in Alteryx

Introduction

This solution sheet outlines the steps to create an ordered list of unofficial holidays using Alteryx Designer. The workflow focuses on importing data, cleansing and transforming it, and applying date formatting to produce a concise and well-organized list.

Step-by-Step Solution

Task 1: Importing Input Data (Unofficial Holiday)

- Open Alteryx Designer and add an **Input Data** tool to the canvas.

- Configure the tool to select the "Unofficial holiday" dataset as the data source.

- Click **OK** to import the dataset into the workflow for further processing.

Task 2: Cleaning Data Using Data Cleansing Tool

- Drag and drop a **Data Cleansing** tool onto the canvas.

- Connect the output of the **Input Data** tool to the **Data Cleansing** tool.

- Select the fields to clean and configure options to remove unwanted values, blank spaces, and inconsistencies.

- Apply the cleaning options by clicking **OK**.

Task 3: Selecting Required Fields Using Select Tool

- Add a **Select** tool to the canvas.

- Connect the output of the **Data Cleansing** tool to the **Select** tool.

- Choose only the necessary fields for the workflow and click **OK** to apply the selection.

Task 4: Adding the Current Year to the "Day" Column Using Formula Tool

- Drag and drop a **Formula** tool onto the canvas.

- Connect the output of the **Select** tool to the **Formula** tool.

- Configure the tool to update the "Day" column using the formula:

csharp

[Day] + ", 2023"

- Click **OK** to apply the formula.

Task 5: Converting the "Day" Column to a Custom Date Format Using DateTime Tool

- Add a **DateTime** tool to the canvas.

- Connect the output of the **Formula** tool to the **DateTime** tool.

- Configure the tool to convert the "Day" column into the desired custom date format.

- Click **OK** to apply the date formatting.

Task 6: Sorting Dates in Ascending Order Using Sort Tool

- Drag and drop a **Sort** tool onto the canvas.

- Connect the output of the **DateTime** tool to the **Sort** tool.

- Configure the tool to sort the **DateTime_Out** column in ascending order.

- Click **OK** to save the sort configuration.

Task 7: Removing the Current Year from the "Day" Column Using Formula Tool

- Add another **Formula** tool to the canvas.

- Connect the output of the **Sort** tool to the **Formula** tool.

- Update the "Day" column using the formula:

mathematica

Replace([Day], ", 2023", "")

- Click **OK** to apply the changes.

Task 8: Selecting Final Fields Using Select Tool

- Drag and drop another **Select** tool onto the canvas.

- Connect the output of the **Formula** tool to the **Select** tool.

- Choose the fields to include in the final output and click **OK** to apply.

Task 9: Viewing Results Using Browse Tool

- Add a **Browse** tool to the workflow.

- Connect the output of the second **Select** tool to the **Browse** tool.

- Run the workflow to view the ordered list of unofficial holidays in the Browse window.

Conclusion

By following these steps, we successfully created an ordered list of unofficial holidays using Alteryx Designer. This workflow demonstrated effective data import, cleansing, transformation, and formatting techniques to achieve a concise and well-organized output. The project highlights the power of Alteryx tools for efficient data manipulation and enhances proficiency in real-world data analysis.