

# Creating an Ordered List of Unofficial Holidays Using Alteryx

## Overview

In this Alteryx project, we used data cleansing, selection, and date formatting tools to create a concise, ordered list of unofficial holidays. By sorting the holidays in ascending order and removing the current year from the data, we produced a refined and visually appealing list. This project highlights the power of Alteryx Designer for data analysis and manipulation.

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## Skill Prerequisites

To successfully complete this project, the following skills and tools are essential:

1. **Alteryx Designer Proficiency:** Familiarity with using Alteryx tools for data analysis and workflow creation.
  2. **Microsoft Excel:** Proficiency in Excel to handle input data preparation and review.
  3. **Data Analysis Concepts:** Basic understanding of data cleansing, selection, and manipulation.
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## System Requirements

Ensure the following are available to execute the project:

1. Alteryx Designer installed on your system.
  2. Access to the "Unofficial holiday" input dataset.
  3. Adequate knowledge of data analysis and manipulation techniques.
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## Tasks and Step-by-Step Process

### 1. Data Import

- Begin by importing the "Unofficial holiday" dataset into Alteryx using the **Input Data** tool.
- Ensure the dataset includes the holiday names and their corresponding dates.

## 2. Data Cleaning

- Use the **Data Cleansing** tool to remove unwanted values, blank spaces, and inconsistencies in the dataset.

## 3. Data Selection

- Add a **Select** tool to choose the required fields (e.g., holiday name and date) for further processing.

## 4. Date Formatting

- Use the **Formula** tool to update the "Day" column by adding the current year (e.g., 2023) to each date.

## 5. Customized Date Formatting

- Utilize the **DateTime** tool to convert the "Day" column into the desired date format for easy sorting.

## 6. Sorting

- Apply the **Sort** tool to arrange the "DateTime\_Out" column in ascending order.

## 7. Year Removal

- Add another **Formula** tool to remove the current year (2023) from the "Day" column, leaving only the date and month.

## 8. Final Data Selection

- Use the **Select** tool again to refine the dataset by choosing only the relevant fields for the final output.

## 9. Data Viewing

- Add a **Browse** tool to visualize the ordered list of unofficial holidays.
- Run the workflow to confirm the results.

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## Dataset

The dataset used in this project, "Unofficial holiday," contains a list of holidays with their names and dates. These holidays, though unofficial, are of interest for various cultural or thematic celebrations.

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## Objectives

This project aimed to achieve the following:

1. Create an ordered list of unofficial holidays.
2. Sort the holidays in ascending order by date.
3. Remove the current year to display a cleaner, more concise list.
4. Showcase proficiency in using Alteryx Designer tools, such as **Data Cleansing**, **Select**, **Formula**, **DateTime**, and **Browse**.
5. Apply data analysis concepts to a real-world dataset.

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## Project Summary

Through this project, we successfully created an ordered and concise list of unofficial holidays using Alteryx. The workflow employed tools for data cleansing, field selection, formula creation, and date formatting. By sorting the holidays and removing the current year, we demonstrated a streamlined approach to handling real-world data. This project highlights the capabilities of Alteryx Designer for efficient data manipulation and analysis.