Preppin' Data

A weekly challenge to help you learn to prepare data and use Tableau Prep

2019: Week 2

February 20, 2019

So you survived week one (note: if you haven't completed week one - go back and give it a go as we will be layering the techniques over time)... well done and let's kick this up a notch.

This week's challenge uses a few of Jonathan's and my favourite Tableau Prep features. Prep has a load of great features built in to the menus so let's see which of them you can use to save you lots of fiddly calculations.

Next week's weather
Windy, wet or both?

City	Metric	Measure	Value	Date
London	Max Temperature	Celsius	13	16/02/2019
London	Min Temperature	Celsius	6	16/02/2019
London	Precipitation	mm	2	16/02/2019
London	Wind Speed	mph	7	16/02/2019
London	Max Temperature	Celsius	14	17/02/2019
London	Min Temperature	Celsius	9	17/02/2019
London	Precipitation	mm	0	17/02/2019
London	Wind Speed	mph	12	17/02/2019

City	Date	Wind Speed - mph	Max Temperature - Celsius	Min Temperature - Celsius	Precipitation - mm
Edinburgh	16/02/2019	13	11		4
Edinburgh	17/02/2019	17	12	6	9
Edinburgh	18/02/2019	20	5	5	11
Edinburgh	19/02/2019	15	7		14

So what's the data? We need you decide where you are going to in the UK; London or Edinburgh, purely based on the weather (every Brit's favourite subject).

edit - you need to update to at least version 2019.1 or there are some serious work-arounds to be done!

Requirements for this week:

- Import the file
- Get rid of those nicely formatted titles - no-one is viewing this in Excel! (sorry Excel fans)
- Make sure you get all the data in the Excel sheet loaded in to Prep
- Clean up the City names to create two cities in one column (London and Edinburgh)
- Pivot the data to give a measure per column for the four metrics in the data set
- Output the data to csv

Your output file should:

- have 6 columns
- have 14 rows of data and a row of headers
- Have no cells without a value
- Just load beautifully into Tableau

City	Date	Wind Speed - mph	Max Temperature - Celsius	Min Temperature - Celsius	Precipitation - mm
Edinburgh	16/02/2019	13			4
Edinburgh	17/02/2019	17	12	6	9
Edinburgh	18/02/2019	20	5	5	11
Edinburgh	19/02/2019	15	7		14

For comparison, here's our output file. Don't to forget to fill in our participation tracker!

Grouping   Pivot   Union

Popular posts from this blog

2023: Week 1 The Data Source Bank

January 04, 2023
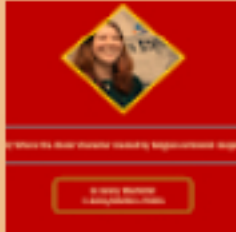
Created by: Carl Allchin Welcome to a New Year of Preppin' Data. These are weekly exercises to help you learn and develop data preparation skills. We publish the challenges on a Wednesday and share a solution the following Tuesday. You can take the challenges whenever you want and we love to see y…

READ MORE

2021: Week 22 - Answer Smash

June 02, 2021

Challenge By: Jenny Martin Recently, my family and I have become quite invested in the TV quiz show Richard Osman's House of Games . The final round is always a round called Answer Smash. In this round you have a picture and question and you have to "smash" the name of the picture with the ans…

READ MORE

How to...Handle Free Text

January 24, 2020

Free isn't always a good thing. In data, Free text is the example to state when proving that statements correct. However, lots of benefit can be gained from understanding data that has been entered in Free Text fields. What do we mean by Free Text? Free Text is the string based data that comes from allow…

READ MORE