

We've recently made an accessibility improvement to the community and therefore posts without any content are no longer allowed. Please use the spoiler feature or add a short message in the message body in order to submit your weekly challenge.



2022-05-26 Updates: Email: If you're not seeing emails be delivered from the Community, please check your spam and mark the Community emails as not junk. Thank you for your patience.



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Free Trial

Weekly Challenge

Solve the challenge, share your solution and summit the ranks of our Community!

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IDEAS WANTED

We're actively looking for ideas on how to improve Weekly Challenges and would love to hear what you think!

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[Weekly Challenge](#)

Challenge #104: Love's not the only thing in the air!

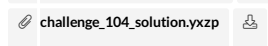


ChristineB
Alteryx Alumni (Retired)

A solution to last week's Challenge can be found [here](#)!

Love...it's not the only thing in the air this week! The Environmental Protection Agency (EPA) measures the concentrations of certain pollutants, like ozone (O₃), and assigns an [Air Quality Index \(AQI\)](#) value to that concentration. For each pollutant with measurements, calculate the number of days in the month of February assigned as each category on the EPA's Air Quality Index.

For this Challenge, I chose to work with data recorded in Denver, CO. The dataset provided includes cities from all over the US; feel free to "choose your own adventure" and select a city that interests you! Design the workflow to be as dynamic as possible; imagine that someone will run this workflow every month. What can you do to make sure that the results reflect the month in which the workflow is run?



Basic Data Analysis Join Parse Preparation Reporting Reporting & Visualization Transform

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ACE patrick_digan
17 - Castor

▷ Spoiler



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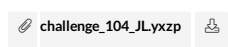
Reply



jamielaird
14 - Magnetar

Here's my solution. I decided to filter the data to only show the most recent year available for the selected site, and scaffolded the data to include zero rows. Colours are replicated from the AQI website. With a bit more time I'd make this into an analytic app but I'm happy with this for now.

▷ Spoiler



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Since Inspire 2018 is going to be in Anaheim, CA I chose the closest station located in Orange County. It was a good suggestion to make sure that the latest month is included, as the last measurements in Costa Mesa were done at the end of 2015! I didn't make an app to dynamically select the location but included the last date of measurements and played a little bit with a layout.

Edit: Here is an updated workflow & screenshots, as I didn't notice that results need to be filtered for a run month. I really need to start reading the task more carefully..

► Spoiler

challenge_104_Natasha.yxmp

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shanakag
6 - Meteoroid

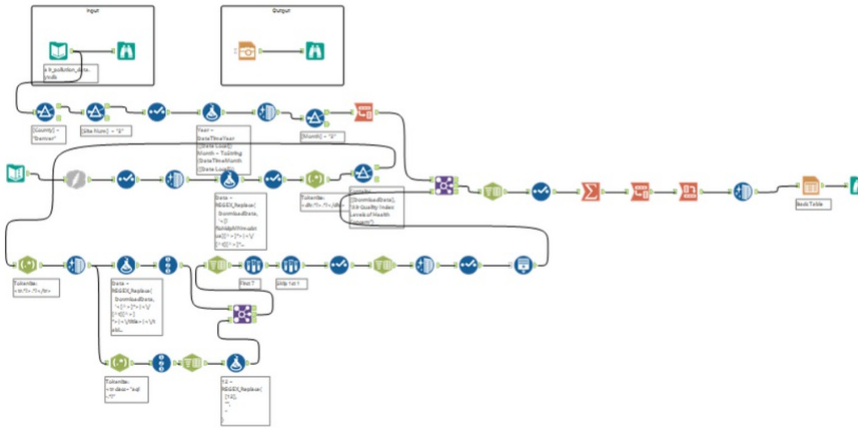
alteryx

COMMUNITY

Weekly Challenge #104

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1 record displayed, 1 field, 2138 bytes

Report Profile

1 of 1 Fields

Records 1 to 1

Record	Table	Pollutant	Category	2006	2007	2012	2013	2014	2015	2016
1		CO	Good	28	27	21	28	28	28	29
		NO2	Good	18	12	9	24	18	19	19
		NO2	Moderate	10	15	12	4	11	9	10
		NO2	Unhealthy for Sensitive Groups	0	0	0	0	1	0	0
		O3	Good	28	27	21	28	28	28	29
		SO2	Good	28	27	21	28	28	28	29

challenge_104_start_file.yxmd

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CHarrison
8 - Asteroid

As a hardcore Breaking Bad fan, I decided to choose Albuquerque! As previously mentioned, it would be nice to make an app of this letting the user decide which city/state they want to include

► Spoiler

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kat
12 - Quasar

Here's my attempt :)

↳ Spoiler

 Challenge #104.yxzp



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 1 LIKE


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 **PhilipManning**
15 - Aurora

And my attempt. Thank you @Natasha for showing me the Table formatting apply to rows. I was gonna spend all day applying the rules to each column before hand.

↳ Spoiler

 challenge_104 - Dynamic Air Quality Report.yxzp




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 **ggruccio**
ACE Emeritus

Cleveland's air quality is healthier than I thought!


 challenge_104_gg_finish.yxzp




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 1 LIKE

Reply

 **data_rachel**
8 - Asteroid

↳ Spoiler

 challenge_104_start_fileRP.yxzp



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