





Seeing as we are Alteryxing here, I decided to go a little further and "repair" the gaps in the data, basically because it's easy in Alteryx, so why not?







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So my license doesn't have access to the address parsing tools, so I took a more manual approach.

Spoiler Spoiler



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TomWelgemoed
12 - Quasar

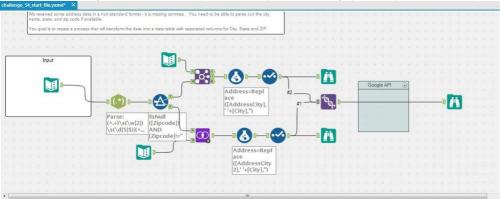
Great stuff Phil for doing this without address inputs.



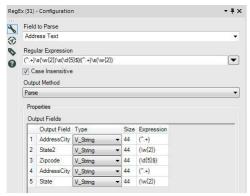


## Hi Everyone

I built my model based on receiving the information in the two formats provided (w/ and w/o zip codes), which run through a parse tool to separate out the state and zip code.

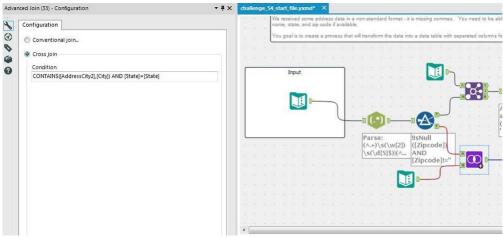


Address Parse Workflow



RegEx Address Parse

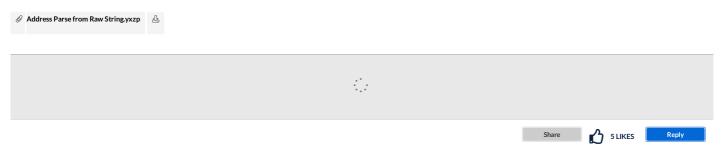
The next step was to divide the two into those with and without zip codes. The ones with zip codes can be referenced to a zip code repository and joined giving you all of the information you are looking for with the correct formatting. Those without zip codes need to be cross referenced using an Advanced Join (this tool allows you to specify multiple criteria for a cross join <a href="https://gallery.alteryx.com/?ga=1.45648100.198713632.1460495285#!app/Advanced-Join/547f8df96ac90f0f...">https://gallery.alteryx.com/?ga=1.45648100.198713632.1460495285#!app/Advanced-Join/547f8df96ac90f0f...</a>)



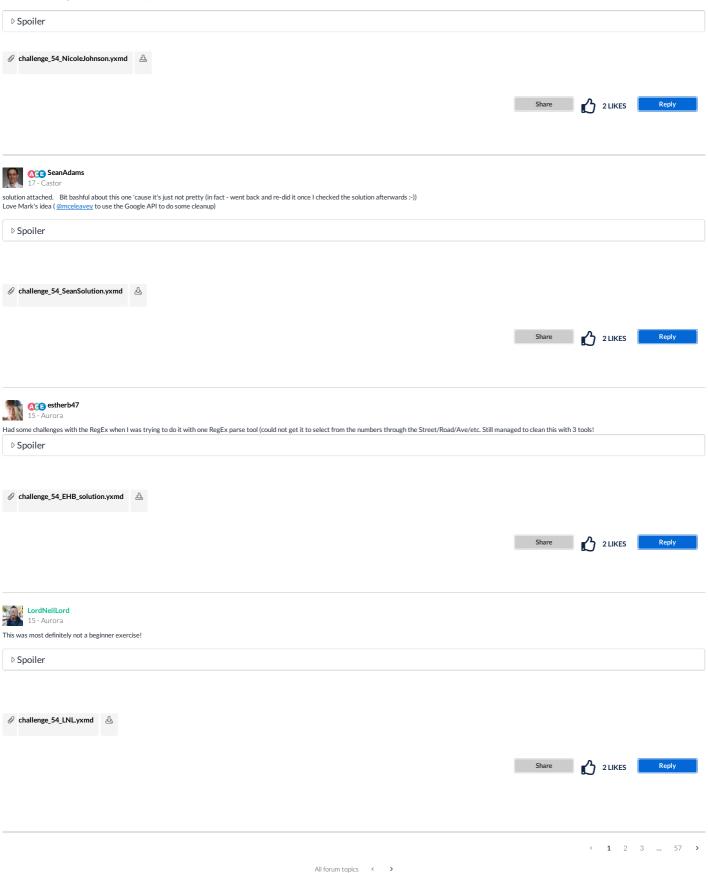
Advance Join Logic

The next set of formula tools removes the cities from the addresses and leaves the Selects and the Union for cleanup. The addition that I would make for further improvement is to add the Google API to run the address records where zip code was not given to add the zip code, at which point any zip codes that you were given that are either not in your repository or are invalid could be corrected/stored.

The major weakness of this workflow is the initial parse which can currently only process the two options. I would want to create a repository for the most common submissions and insure that it stays case insensitive.



My solution, I got a bit stuck (clearly, i need a crash course in RegEx, and don't have access to the address parse tools either), so I ended up deciding to create a text input of common street names (Street, St. Drive, Dr. etc.), which allowed me to split out the number & street after using the Find & Replace tool. From there, string formulas let me do the rest. For this to work for any address, I'd likely need to expand the common street names text input to include additional ones (Place, Close, Court, etc.) It's not elegant, and I'm not convinced yet that it would work 100% of the time... but it worked.





La







