

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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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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Challenge #7: Download Data and Parse JSON



GeneR

Alteryx Alumni (Retired)

Welcome to 2016 we hope you are enjoying these challenges. The link to the solution for last challenge #6 is [here](#). For the seventh challenge let's look at downloading data with an API and parsing that data from JSON into a usable format. The data we will use comes from Quandl. The Quandl site offers access to several million financial, economic and social datasets. Data is indexed from multiple sources allowing users to find and download in various formats. All Quandl's data are accessible via an API.

For this example the response from these APIs is JSON. Our user is trying to get aggregated Annual Outbound Tourism Statistics for the US dating back to 1995. The Text Input contains the URL for the API request. Your goal is to parse the response.

Hint: After parsing the JSON, you will need to further identify the patterns within the data to effectively stage into a table for analytics.

Note: The data in the API is subject to change. When trying to match the output, the effort should be focused on achieving an identically structured dataset.

We have listed this as an advanced challenge since configuring the download tool and parsing functions are more advanced topics. We are looking forward to hearing your feedback.

UPDATE 1/11/2016: the solution to this exercise can be found below.

UPDATE 4/10/2019: Previous API link expired. Exercise updated to new API.



challenge_7_start_file.yxmd



challenge_7_solution.yxmd



Data Analysis Developer Difficult Parse Preparation Transform

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martinbosak

6 - Meteoroid

This one is very nice! And i think relatively frequently used example. Great for playing with data from internet and so many options how to get this done. In the end i used a lot of tools here.

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dataMack

12 - Quasar

Great exercise here. I'm finding the need to parse JSON data more and more. It'll be interesting to see the variety of ways people choose to wrangle the data after the initial JSON parse- I can think of a few different options.

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TaraM

Alteryx

The Exercise has been updated with the solution. Thanks for playing along.

Tara McCoy

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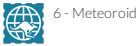
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6 - Meteoroid

This was a tricky one. On first connetion I got an error message in the download field and thought the URL had gone bad. Manually checked it in the browser and saw that it was actually part of the header of the dataset. Sneaky 😊

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Decision Score TomWelgemoed

12 - Quasar

Thank you for this great exercise. We're using this as part of our certification practise.

Just a pointer that the output data appears to now have moved/changed (so the challenge output is now out of date), which is perhaps understandable if pulling from an API.

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mceleavey

17 - Castor

Ok, not sure if this is the best way, but hey, it's Alteryx!
I used the Dynamic Rename tool, but I sure this could be sorted and joined in a different way which may be more efficient. Anyway:

▷ Spoiler

bu:lien

challenge_7_solution.yxmd



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2 LIKES

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SeanAdams

17 - Castor

Very similar solution to the one provided except...

▷ Spoiler

challenge_7_SeansSolution.yxmd



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KatieA

Alteryx Alumni (Retired)

Solution attached.

I really liked @GeneR use of the Dynamic Rename!

KA_challenge_7.yxmd



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MarqueeCrew

19 - Altair

Happy Sunday
Cheers,
Mark

Alteryx ACE & Top Community Contributor

Chaos reigns within. Repent, reflect and restart. Order shall return.
Please [Subscribe](#) to my youTube channel.

 challenge_7_MarqueeCrew.yxmd



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