

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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## Weekly Challenge

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

Also available in | Français | Português | Español | 中文

### IDEAS WANTED

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

[SUBMIT FEEDBACK](#)

[Weekly Challenge](#)

## Challenge #71: Recreate SQL Joins in Alteryx

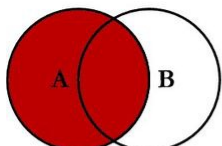


Matt D

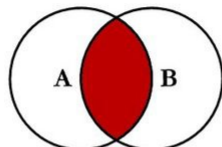
Alteryx Community Team

The solution to last week's challenge is [HERE](#)!

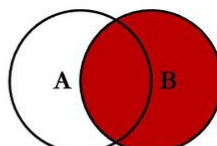
# SQL JOINS



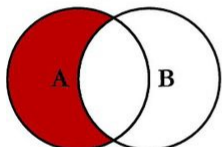
```
SELECT <select_list>
FROM TableA A
LEFT JOIN TableB B
ON A.Key = B.Key
```



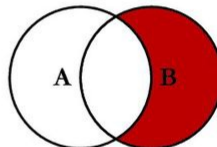
```
SELECT <select_list>
FROM TableA A
INNER JOIN TableB B
ON A.Key = B.Key
```



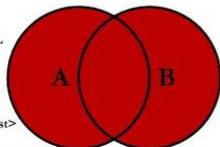
```
SELECT <select_list>
FROM TableA A
RIGHT JOIN TableB B
ON A.Key = B.Key
```



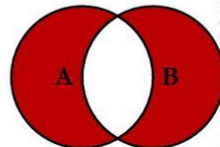
```
SELECT <select_list>
FROM TableA A
LEFT JOIN TableB B
ON A.Key = B.Key
WHERE B.Key IS NULL
```



```
SELECT <select_list>
FROM TableA A
RIGHT JOIN TableB B
ON A.Key = B.Key
WHERE A.Key IS NULL
```



```
SELECT <select_list>
FROM TableA A
FULL OUTER JOIN TableB B
ON A.Key = B.Key
```



```
SELECT <select_list>
FROM TableA A
FULL OUTER JOIN TableB B
ON A.Key = B.Key
WHERE A.Key IS NULL
OR B.Key IS NULL
```

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Today's challenge is for all of our analysts and data scientists who used SQL in the past (or their current) lifetime! Using the schematic above, can you recreate all the SQL joins with the Alteryx [Join Tool](#) and the datasets we have provided?

► Spoiler

[challenge\\_71\\_start\\_file.yxmd](#)

[challenge\\_71\\_solution.yxmd](#)



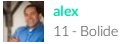
Data Preparation Intermediate Join

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**alex**  
11 - Bolide

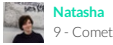
Who's gonna join the fun this week and submit their workflows?

challenge\_71\_AC.yxmd

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**Natasha**  
9 - Comet

Thanks for a quick SQL joins recap, though I find Alteryx joins are so much more intuitive!

challenge\_71\_NK.yxmd

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**NicoleJohnson**  
15 - Aurora

My solution! And just for kicks, did it as an app! Pick your join type and it will give you the results... SOOO much more fun than writing boring old SQL queries :)

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challenge\_71\_NicoleJohnson.yxwz

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**SeanAdams**  
17 - Castor

So - I sacrificed utility for prettiness <shameful grin> and there's a few components in there that aren't needed but gave me a nice symmetry to the whole thing, and gave me a place to hang a label. Oh, and just to add insult to injury, in making this nice and symmetrical, it also becomes less readable than [@alex](#) and [@Natasha](#)'s solutions because all the inbound connectors overlap.

<grin> yes - pretty silly trade-off, I know (less readable, less efficient, but easier on the eye)

▷ Spoiler

I've packaged my workflow along with a simple macro that allows you to check your results with very little effort

Have a good week all - 4 more to go!

Sean

challenge\_71\_seanSolution.yxzp

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**SeanAdams**  
17 - Castor

PS - for extra credit [@NicoleJohnson](#) - perhaps worth trying this with detour components or Dynamic Replace (thanks to [@Joe.Mako](#) for challenging me to learn this one).

If you're going to over-achieve, why not push the boat out ALL the way? :-)

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**estherb47**  
15 - Aurora

Oh my, lots of browses to show the different joins. Much simpler than SQL!!

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 **ACE NicoleJohnson**  
15 - Aurora

@SeanAdams I actually tried Detours first, but kept detouring myself into errors... :) I will definitely give it a go again though! Can't guarantee it will be as pretty as yours, however... what a masterpiece! We'll just call you Vincent van Alteryx :)

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 **Simona**  
7 - Meteor

Pretty nice exercise, I found it quite easy but it was a good refresh for the wording :)  
Attached my solution :)

» Spoiler

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 **ACE MarqueeCrew**  
19 - Altair

Sorry, but my dog ate my homework.

No pretty pictures here today....

Cheers,  
Mark

Alteryx ACE & Top Community Contributor

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

 challenge\_MarqueeCrew.yxmd



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