Weekly Challenge

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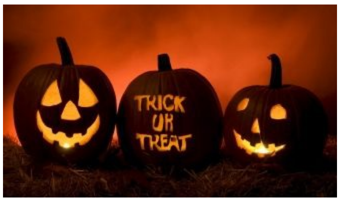
‹ Weekly Challenge

Challenge #47: Vehicle Identification Number Test

GeneR
Alteryx Alumni (Retired)

Happy Halloween loyal weekly exercise participants, here is an exercise I hope does not scare you too much. Hopefully is a treat and not a trick. The link to last week's challenge is HERE.



Use case: An Alteryx subscriber needs to build a process to validate VIN numbers to test for data quality issues across the fleet data. The algorithm is provided at the below wiki link.

http://en.wikipedia.org/wiki/Vehicle_identification_number

Objective: Please take the VIN numbers from the Input and create a new column for the check digit. Compare the check digit with the calculated check digit value. If the two values do not match (and there was no error in the calculation), then there is a mistake in the VIN. Out of the six VINs, how many vehicles have invalid codes?

challenge_47_start_file.yxmd

challenge_47_solution.yxmd

Vehicle identification number - Wikipedia

en.wikipedia.org/wiki/Vehicle_identification_nu...

A vehicle identification number (VIN) (also called a chassis number or frame number) is a unique code, including a serial number, used by the automotive industry to identify individual motor vehicles, towed vehicles, motorcycles, scooters and mopeds, as defined by the International Organization ...

Data Analysis | Data Preparation | Intermediate | Join | Parse | Preparation | Transform

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Joe_Mako
12 - Quasar

I took on the challenge of doing this without lookup tables.

▹ Spoiler

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A solution has been posted

Spoiler

Tara McCoy

Share 0 LIKES Reply

DanielUpton
9 - Comet

Spoiler

This was a great skill-builder exercise for me. Now, I appreciate the value of parsing a string into (readers' guess: Columns or Rows), in order to allow for all of that SQL-esque stuff. Good stuff!

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MarqueeCrew
19 - Altair

working on earning a badge ...

Cheers,
Mark

Alteryx ACE & Top Community Contributor

Chaos reigns within. Repent, reflect and restart. Order shall return.
Please Subscribe to my youTube channel.

challenge_47_MarqueeCrew.yxmd

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SeanAdams
17 - Castor

Great challenge - loved the fact that it required research.

My solution was kind of a hybrid solution (when I compared it afterwards to some of the other solutions)

Spoiler

challenge_47_SeanSolution.yxmd

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NicoleJohnson
15 - Aurora

My solution. I remember solving this one last year trying to prep for the Grand Prix qualification rounds! But I didn't save my solution... and I didn't know how to use several of the tools I used this time... so no idea how I did it a year ago!

Spoiler

challenge_47_NicoleJohnson.yxmd

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estherb47
15 - Aurora

Added the fun of parsing the lookup tables from the Wiki page (to avoid any typos)

challenge_47_EHB_solution.yxmd

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LordNeilLord
15 - Aurora

Not the neatest solution but it works, so I'm satisfied

▷ Spoiler

challenge_47_LNL.yxmd

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jamielaird
14 - Magnetar

Here's my solution. I've mostly used formula tools because they suit the way my brain works. Enjoyed this one lots!

▷ Spoiler

challenge_47_JL.yxmd

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