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Tips from Alteryx Inspire 2023

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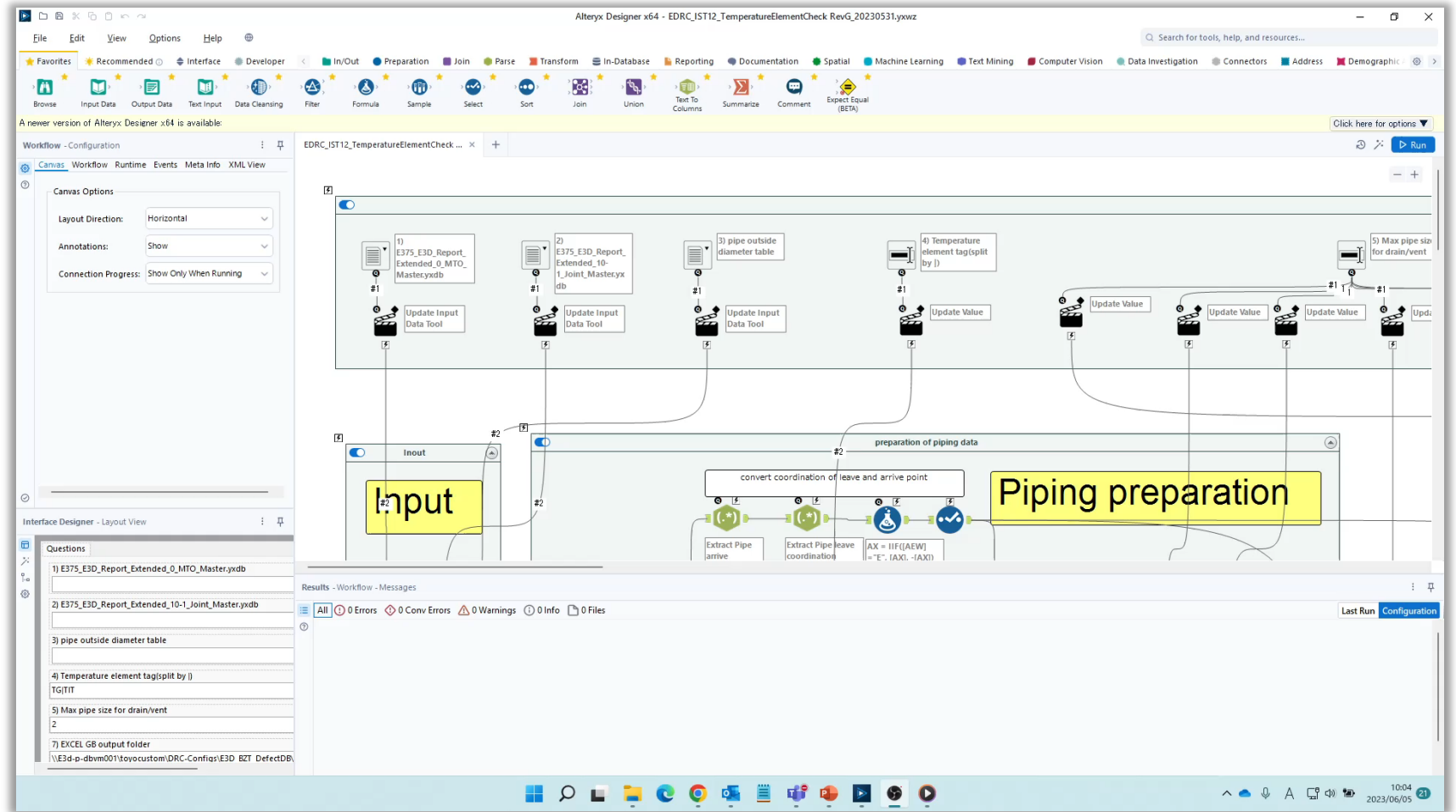
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Zoom

Zoom

- All
- Container
- Selected tools



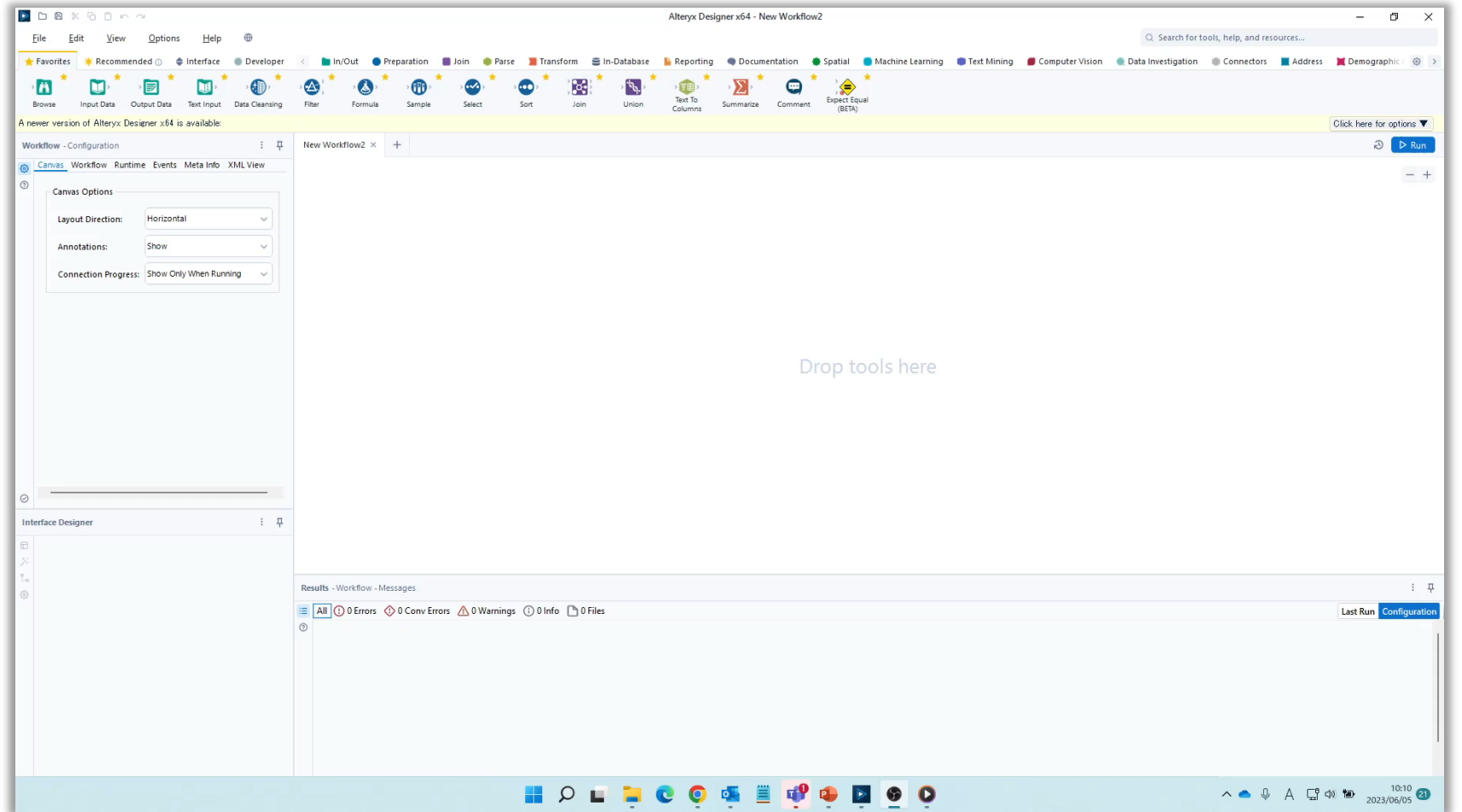
Insert tools by double click

Insert tools by double click

- ツールを付けたい場所を選ぶ
- 入れたいツールをダブルクリック

Delete and Connect Around

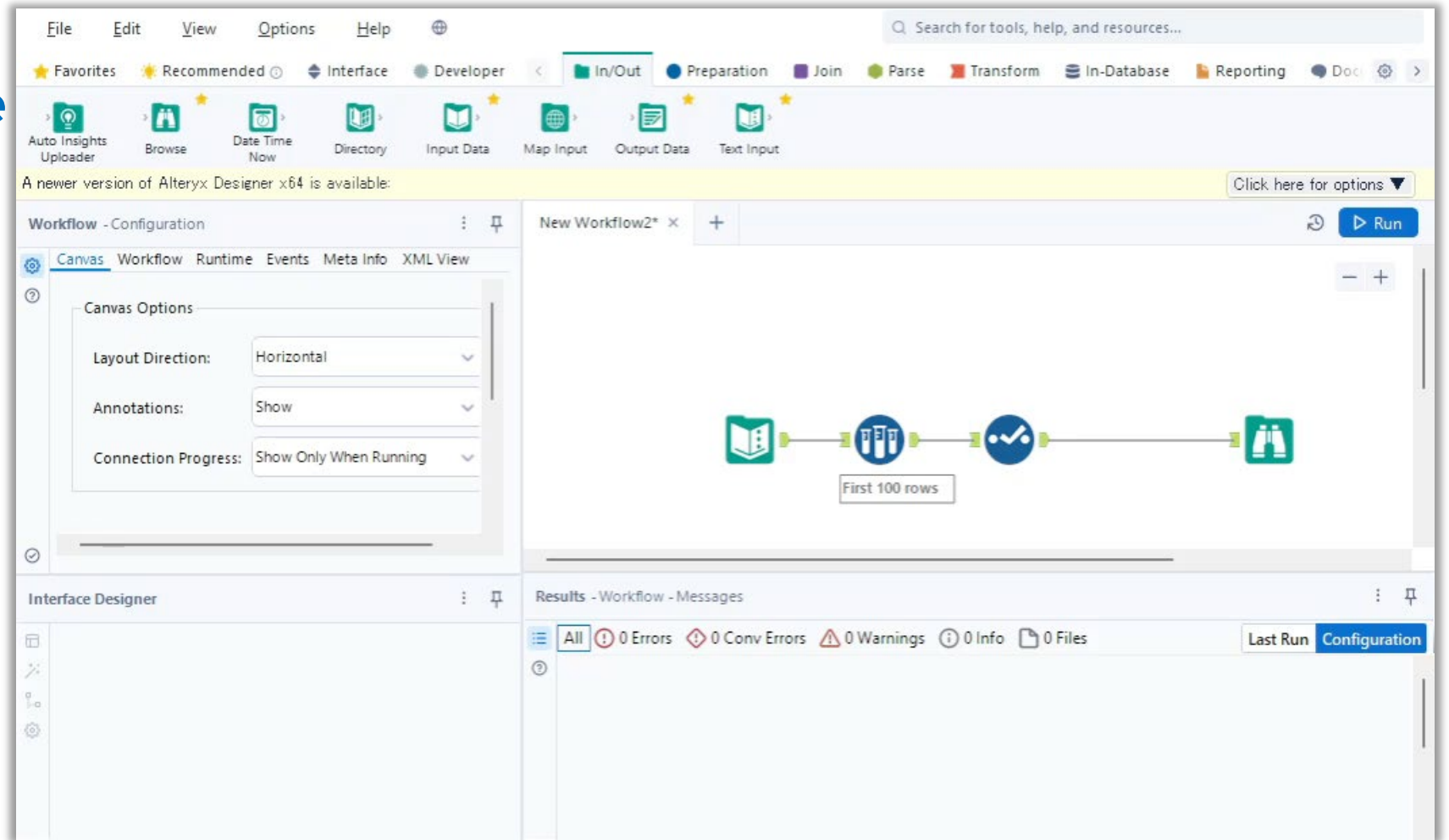
- 線を残したままツールを削除



Scroll on tool palette

Scroll on tool palette

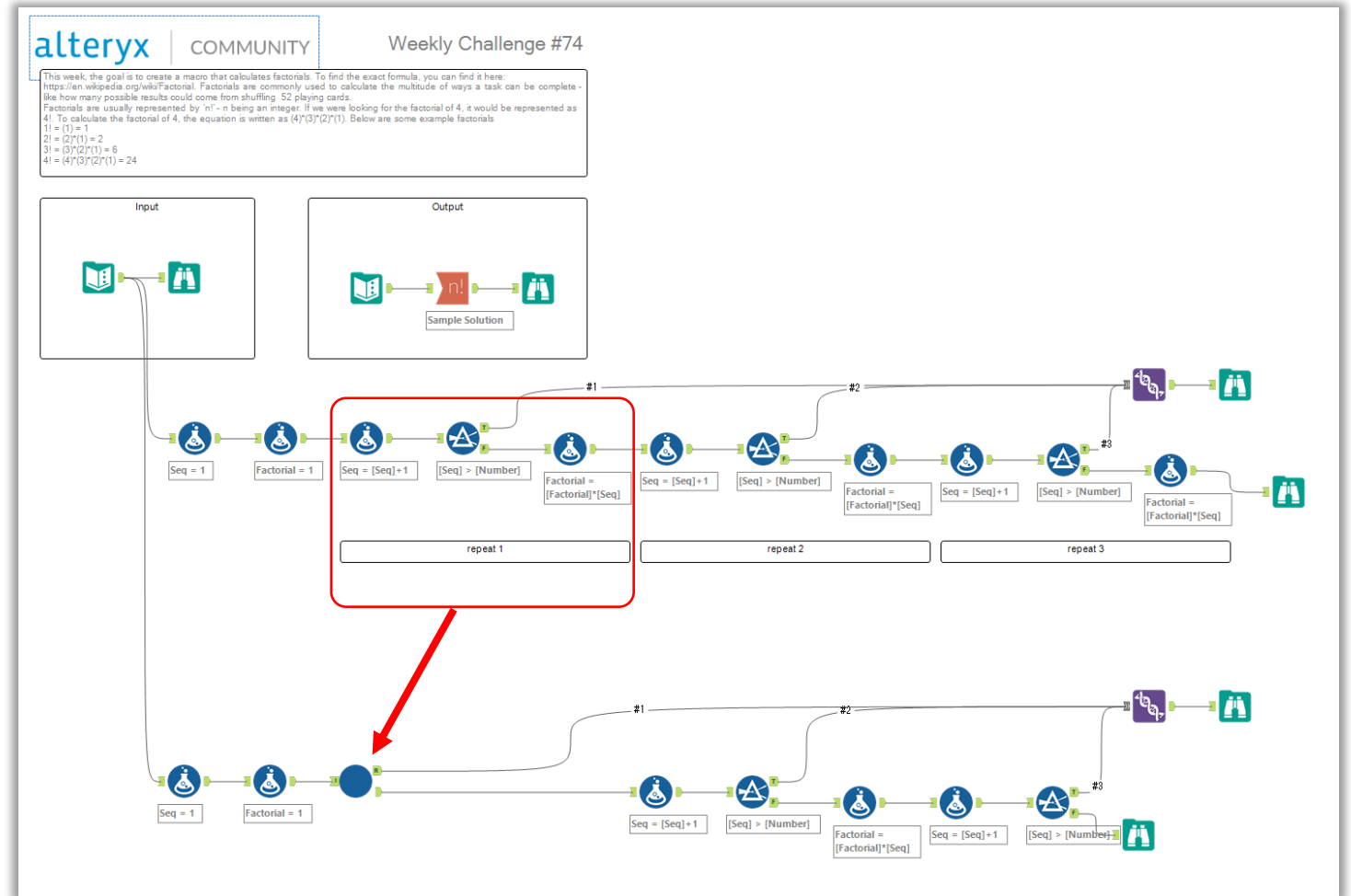
- ツールパレットでマウスボタン
スクロール
- ツールカテゴリでマウスボタン
スクロール



Convert to macro

Convert to macro

- マクロにしたい範囲を選んで
右クリックメニューでマクロに変換



Convert to macro

Convert to macro

- 繰り返し処理がこの形になっていれば反復マクロも簡単

The screenshot displays the Alteryx Designer x64 interface for a workflow titled "challenge_74_toki.yxmd". The main canvas shows a workflow designed to calculate factorials. It starts with an input tool, followed by a loop structure consisting of three "repeat" blocks. Each block contains a sequence of tools: a "Text Input" tool, a "Filter" tool, a "Formula" tool, and a "Text Output" tool. The workflow concludes with a "Browse" tool. The "Results" pane at the bottom shows the execution details, including the number of records processed and the time taken to finish running the challenge.

Workflow - Configuration

challenge_74_toki.yxmd* x

alteryx | COMMUNITY Weekly Challenge #74

This week, the goal is to create a macro that calculates factorials. To find the exact formula, you can find it here: <https://en.wikipedia.org/wiki/Factorial>. Factorials are commonly used to calculate the multitude of ways a task can be completed like how many possible results could come from shuffling 52 playing cards. Factorials are usually represented by "!" - taking an integer. If we were looking for the factorial of 4, it would be represented as 4!. To calculate the factorial of 4, the equation is written as $4! = (3! * 2! * 1)$. Below are some example factorials:

- $1! = 1 * 1 = 1$
- $2! = (2! * 1) = 2$
- $3! = (3! * 2! * 1) = 6$
- $4! = (4! * 3! * 2! * 1) = 24$

Input: [Text Input] → [Filter] → [Formula] → [Text Output]

Output: [Text Input] → [Filter] → [Formula] → [Text Output] (Sample Solution)

Workflow steps:

- Seq = 1
- Factorial = 1
- Seq = [Seq]+1
- [Seq] > [Number]
- Factorial = [Factorial]*[Seq]
- Seq = [Seq]+1
- [Seq] > [Number]
- Factorial = [Factorial]*[Seq]
- Seq = [Seq]+1
- [Seq] > [Number]
- Factorial = [Factorial]*[Seq]

repeat 1, repeat 2, repeat 3

Results - Workflow - Messages

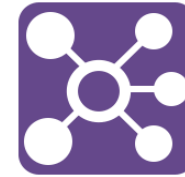
- All 0 Errors 0 Conv Errors 0 Warnings 6 Info 3 Files
- Designer x64 The Designer x64 reported: Running at a Low Priority.
- Text Input (1) 6 records were output
- Browse (9) 6 records
- Filter (20) 0 records were True and 0 were False
- Filter (23) 0 records were True and 0 were False
- NewMacro2 (51) 9 iterations were run.
- Browse (26) 6 records
- Text Input (3) 6 records were output
- Browse (14) 6 records
- Designer x64 Finished running challenge_74_toki.yxmd in 0.3 seconds

Avoid Using Processor Intensive Tools

以下のようなツールは処理が重い。

ソートが必要なツール

- Sort Tool
- Cross Tab and Transpose Tools
- Summarize Tool
- Join Tool



マクロでできたツール

- Data Cleanse



リソース消費が大きい

- Browse Tools



Avoid Using Processor Intensive Tools



ソートへの対策

- 重複した処理を減らす。
- Sortした後にjoinしているならsortを消すなど。



Summarizeへの対策

- 終盤でsummarize toolを使うのであれば、より早い段階でsummarizeできないか検討する。データの行数が減ることでformulaツールなど他の処理が改善する。



Joinへの対策

- Join を何度も重ねているようなら、少しでもまとめる。
String や double で join していたら、integer で join できないか検討する。

Avoid Using Processor Intensive Tools



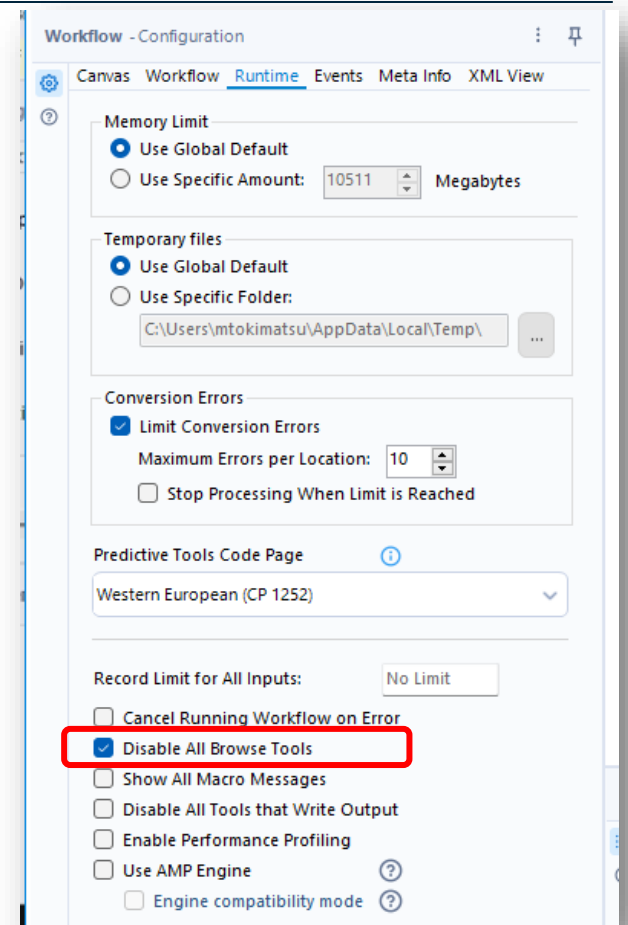
Data Cleanse toolへの対策

- formula tool で代用できないか検討する。Trim など。複数のColumnがあってもMulti-Field Formula が使えるかもしれない。



Browseへの対策

- 実行する前やalteryx server にpublishする前にすべてのbrowseツールを消す。
- Runtime settings 推奨。



参考: Tips and Tricks

- <https://community.alteryx.com/t5/Alteryx-Designer-Desktop-Knowledge-Base/Inspire-2019-Tips-Tricks/ta-p/425678?attachment-id=60500>

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Thank you!

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