

Chapter 1: Getting Started with Alteryx

Alteryx Analytics 11.0

alteryx inspire
LAS VEGAS, NV | June 5-7, 2017

[Release Notes](#) | [Downloads](#) | [Predictive Analytics](#) | [Data Installs](#) | [Documentation](#) | [Previous Releases](#)

Alteryx 11.0 is a major release to the Alteryx Analytics platform and includes the following features, enhancements, and bug fixes. Release notes prior to this release can be found on the [Previous Releases](#) page.

Important reminder about upgrading Alteryx software: *Your Alteryx license will continue to function when a new version is installed. No licensing action is needed.*

Alteryx Designer

[Key Features](#) [Additional Changes](#) [Known Issues](#)

- ▶ Data Profiling
- ▶ Data Connections
- ▶ Schedule Workflows
- ▶ New and Enhanced Data Sources
- ▶ Tool Enhancements
- ▶ Enhanced Search
- ▶ User Experience Enhancements
- ▶ Predictive Analytics Enhancements
- ▶ New and Enhanced One-Tool Examples

Software Downloads

Version 11.0.6.28907
Release date: May 22, 2017



Alteryx Designer



Alteryx Server

[View All Downloads](#)

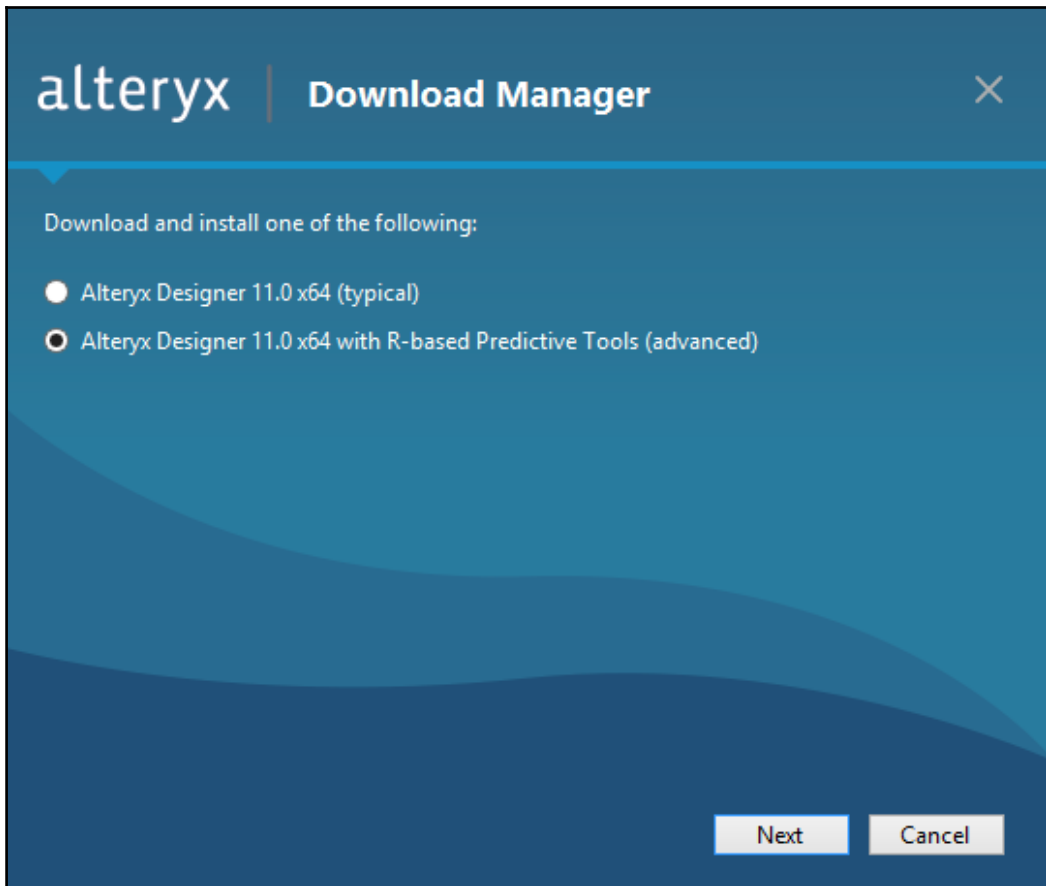
Predictive Analytics Downloads

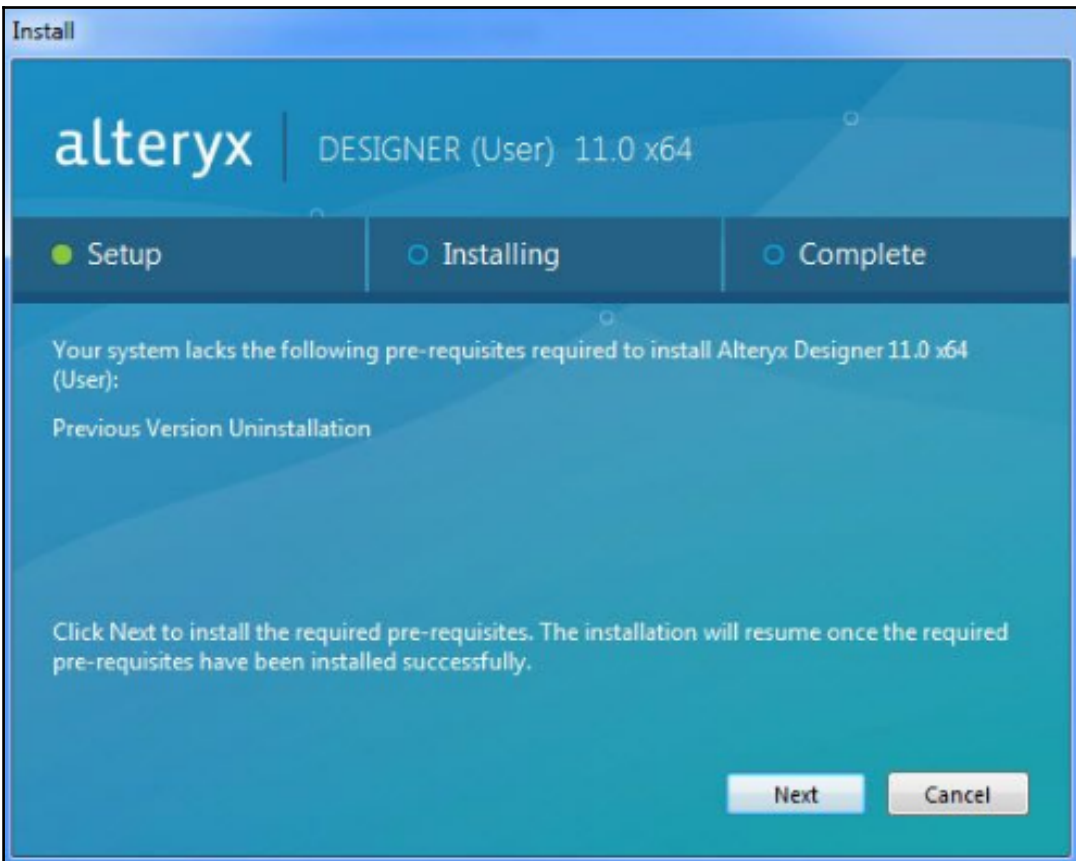
R version 3.3.2
Microsoft R Client 3.3.2
Microsoft R Server 9.0.1

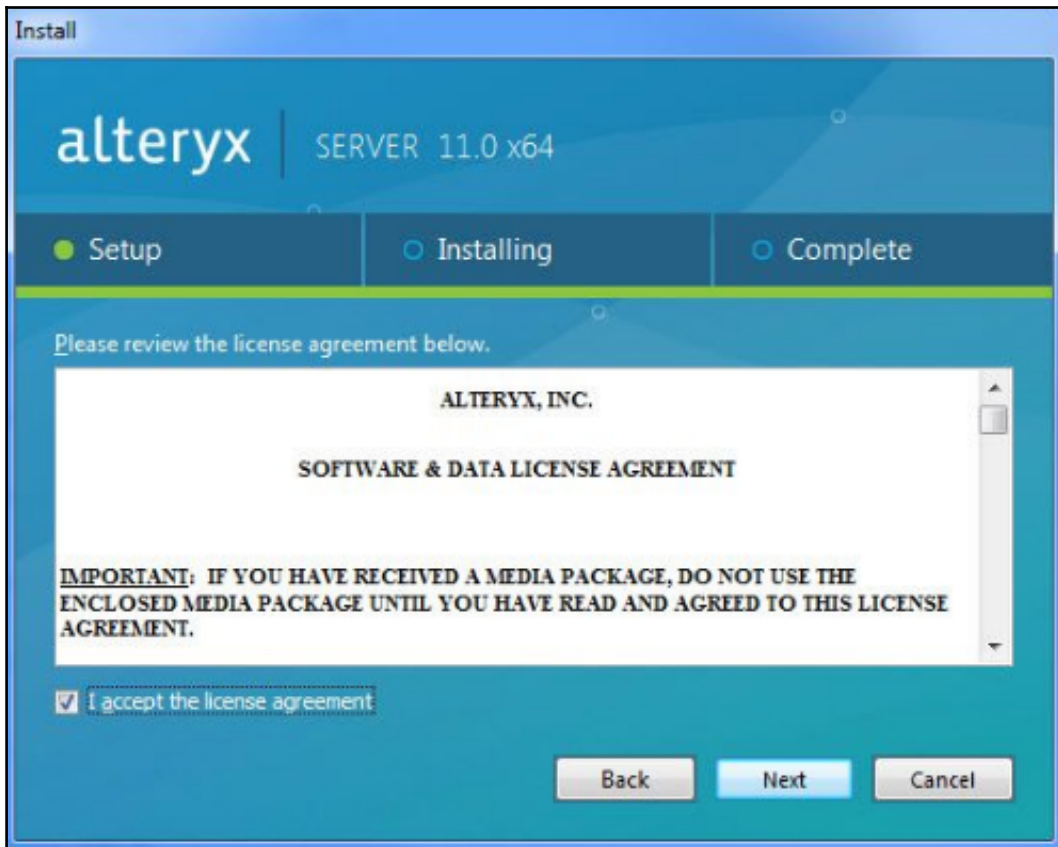
[View Predictive Analytics Downloads](#)

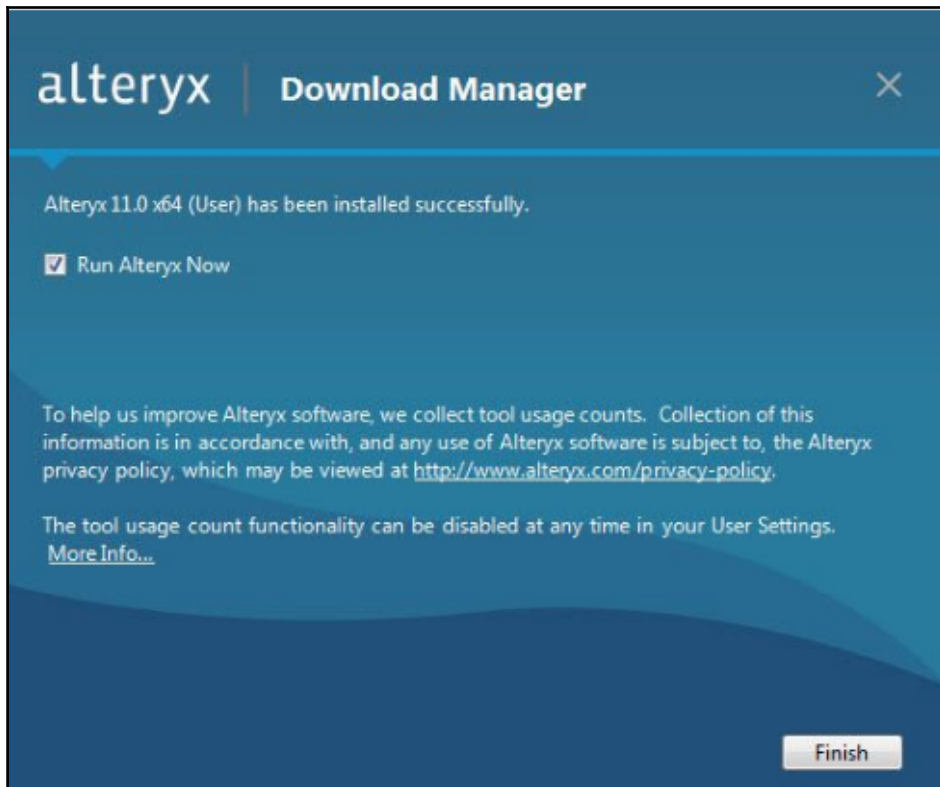
Data Downloads

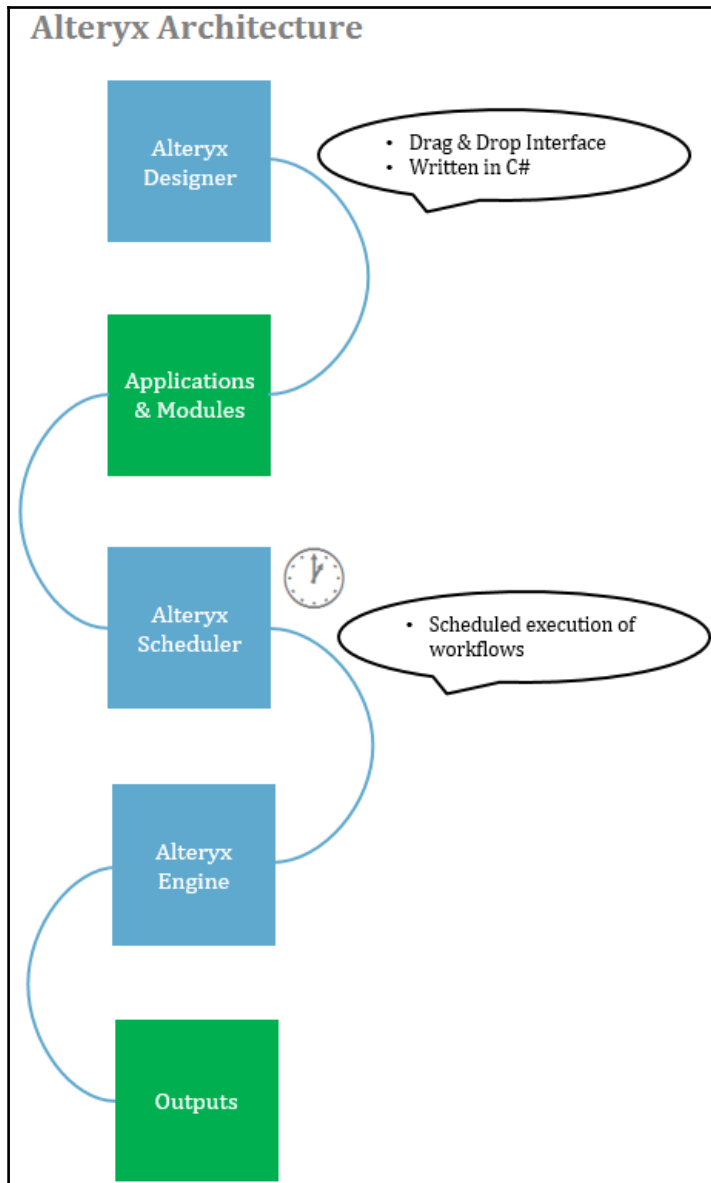
[View Alteryx Data Installs](#)



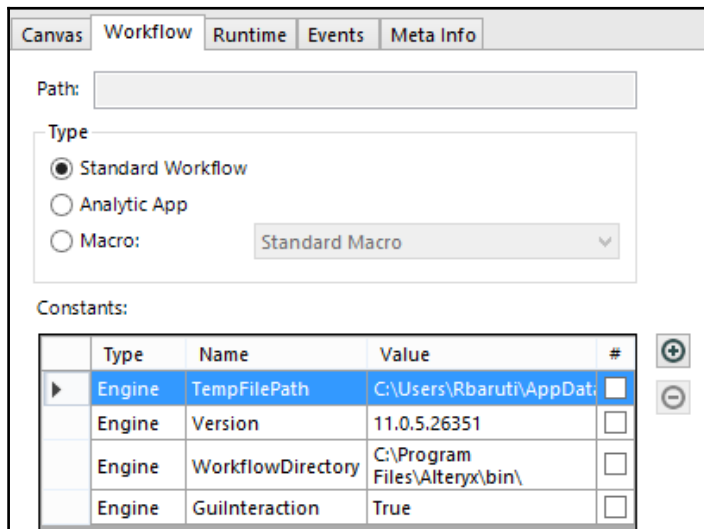
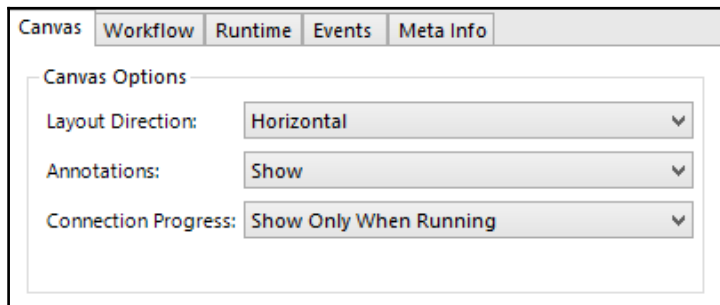
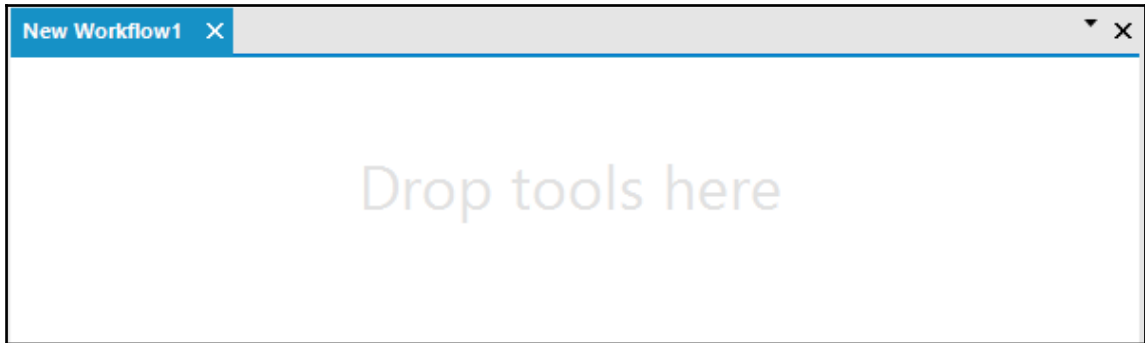








★ Favorites ■ In/Out ● Preparation ■ Join ● Parse ■ Transform ■ In-Database ■ Reporting ● Documentation



Canvas Workflow Runtime **Events** Meta Info

Dedicated Sort/Join Memory Usage

Use Global Default

Use Specific Amount: 1507 Megabytes

Temporary files

Use Global Default

Use Specific Folder:

C:\Users\Rbaruti\AppData\Local\Temp\ ...

Conversion Errors

Limit Conversion Errors

Maximum Errors per Location: 10

Stop Processing When Limit is Reached

Record Limit for All Inputs: No Limit

Cancel Running Workflow on Error

Disable All Browse Tools

Show All Macro Messages

Disable All Tools that Write Output

Enable Performance Profiling

Canvas Workflow Runtime **Events** Meta Info

Enable Events

Events:

	Add ▼
	Edit
	Up
	Down
	Delete

The image shows a software interface with a tabbed menu at the top containing 'Canvas', 'Workflow', 'Runtime', 'Events', and 'Meta Info'. The 'Meta Info' tab is active and contains several sections:

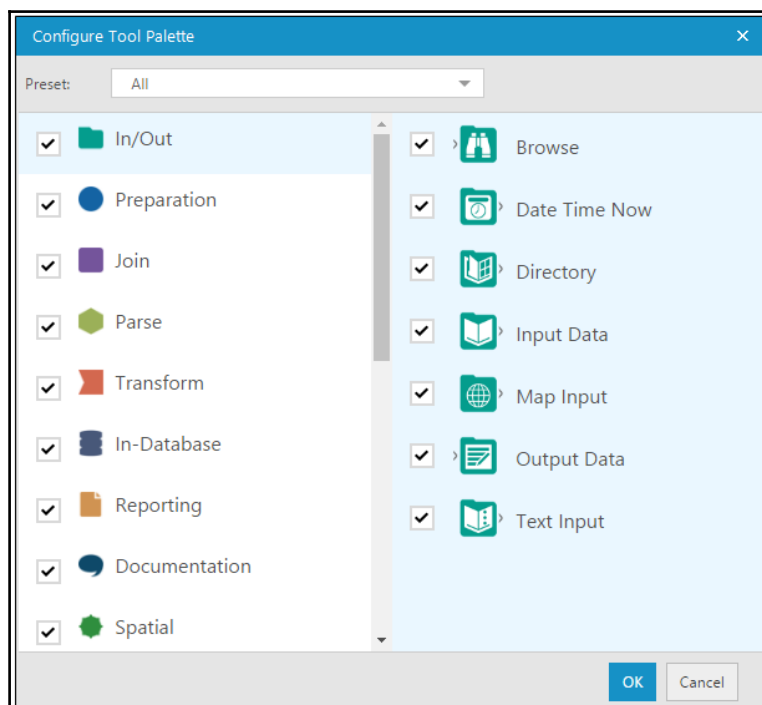
- Workflow Name:** A section with two radio buttons: 'Use File Name' (selected) and 'Custom:'. The 'Custom:' option is followed by a text input field.
- Description:** A large, empty text area.
- URL:** A text input field.
- Display Text (optional):** A text input field.
- Tool Settings:** A section with three fields: 'Root Tool Name:' (text input), 'Tool Version:' (text input), and 'Tool In-Database?' (checkbox).
- Tool Palette:** A section with two fields: 'Category Name:' (text input) and 'Search Tags:' (a larger text input area).
- Author:** A section with three text input fields: 'Name:', 'Company:', and 'Copyright:'.

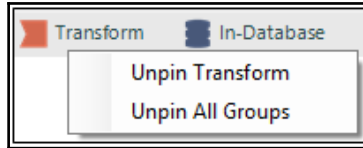
At the bottom right of the 'Meta Info' tab, there are two blue links: [Set to Default](#) and [Remember as Default](#).

Undo and Redo, Copy and Paste	
Action	Shortcut
Undo	Ctrl + Z
Redo	Ctrl + Y
Copy	Ctrl + C
Cut	Ctrl + X
Paste	Ctrl + V
Move and Delete Tools	
Action	Shortcut
Move selected tool	Arrow key
Move selected tool by one	Ctrl + Arrow key
Delete selected tool	Delete
Scroll and Pan the Canvas	
Action	Shortcut
Scroll vertically	Scroll Function
Scroll horizontally	Shift + Scroll Function
Move up, down, left or right	Arrow Keys
Skip up, down, left or right	Shift + Arrow Keys
Jump to top or bottom	Home or End
Jump to left or right	Shift + Home or End
Pan	Space Bar + Left Click
Pan	Hold mouse center button

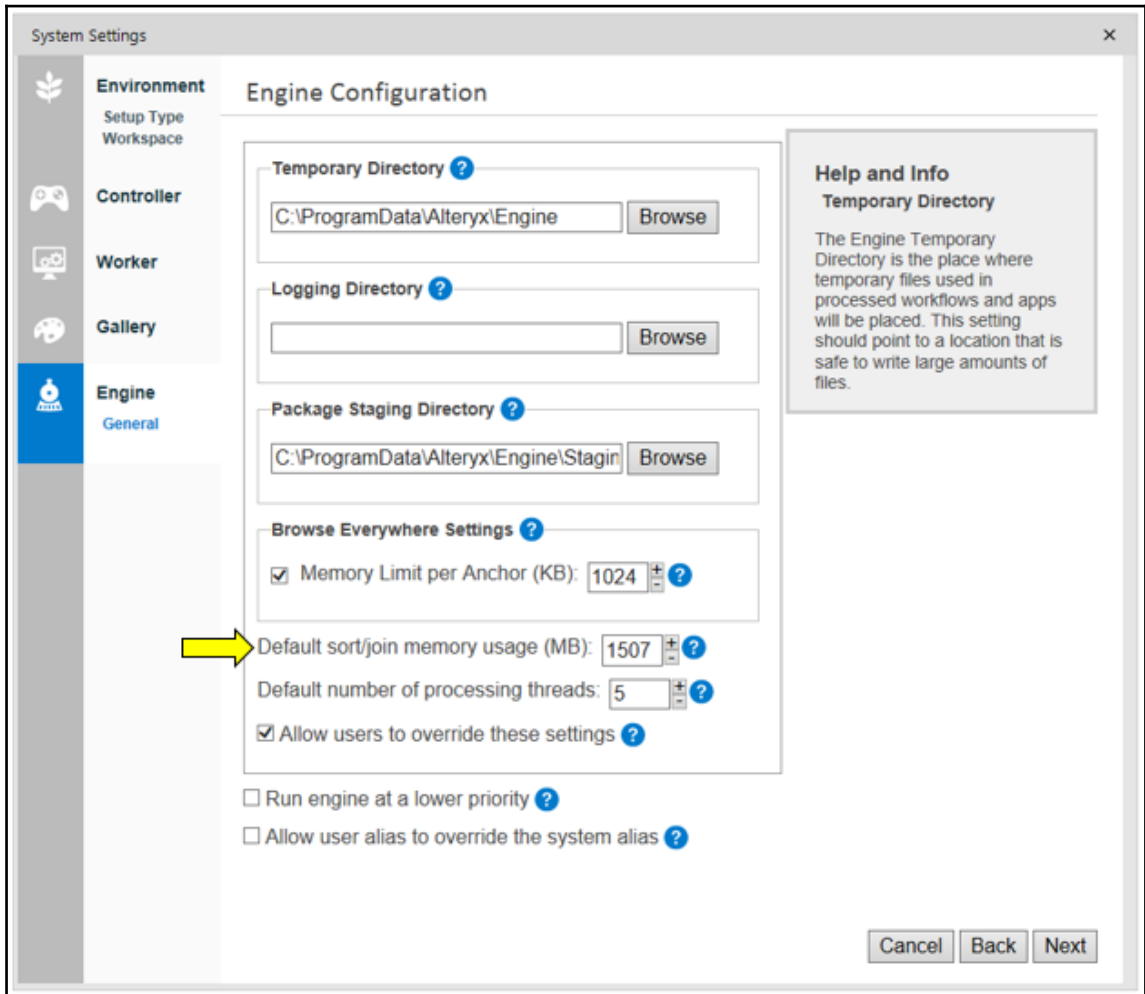
Select and Align Tools	
Action	Shortcut
Select all items	Ctrl + A
Deselect all selected items	Ctrl + D
Align tools vertically	Ctrl + Shift + +
Align tools horizontally	Ctrl + Shift + -
Zoom In and Out of the Workflow	
Action	Shortcut
Zoom in or out	Ctrl + + or -
Zoom to or from cursor	Ctrl + Scroll Function
Zoom to entire workflow	Ctrl + 0
Zoom to entire workflow	Double-click mouse center button
Jump to selection	Ctrl + 0
Jump in or out	Ctrl + 1 through 5
Zoom to area	Right-click & drag to select with

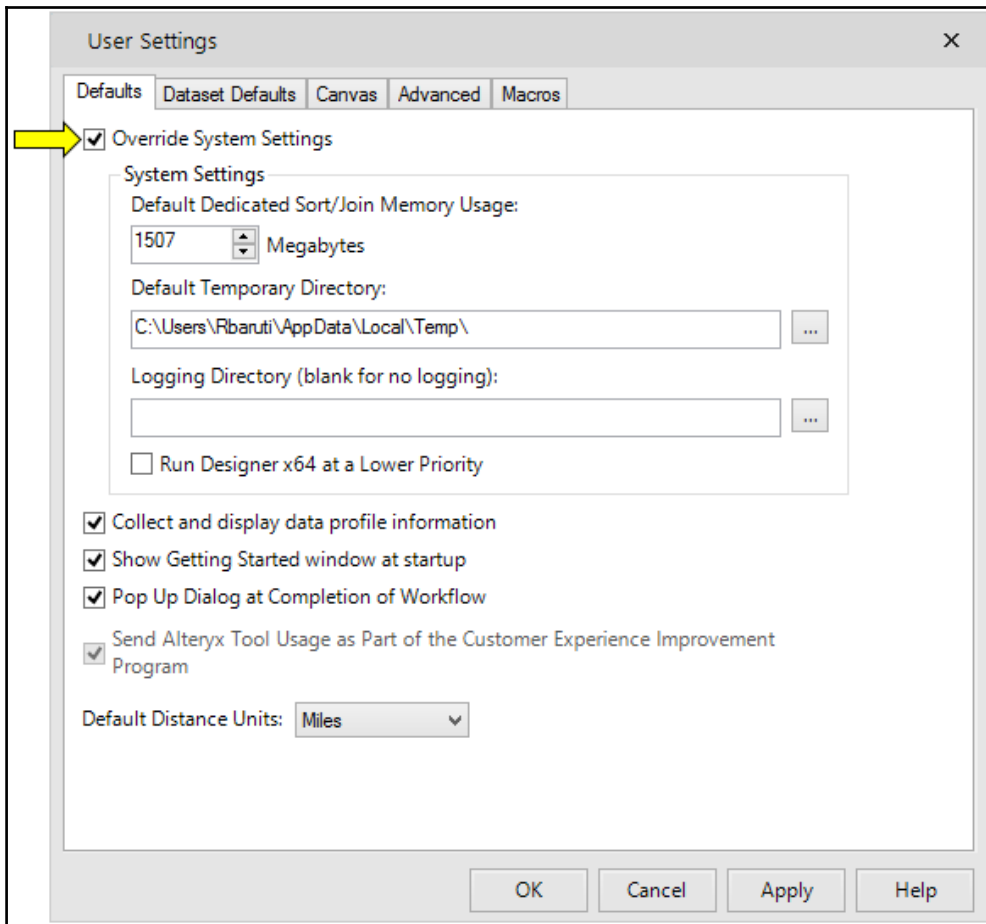
Show and Hide Tools and Windows	
Action	Shortcut
Show Toolbar	Ctrl + Alt + B
Show Tool Palette	Ctrl + Alt + T
Show Overview	Ctrl + Alt + V
Show Results Window	Ctrl + Alt + R
Show Configuration	Ctrl + Alt + C
Reopen the Configuration	Double-click the canvas or any
Show the Interface	Ctrl + Alt + D
Show the Find Tool window	Ctrl + F
Run, Open, Save, and Switch Workflows	
Action	Shortcut
Run workflow; stop	Ctrl + R
Open workflow	Ctrl + O
Close active workflow	Ctrl + F4
Save workflow	Ctrl + S
New workflow	Ctrl + N
Move between active	Ctrl + Tab

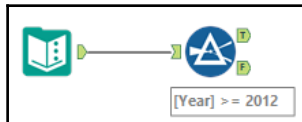
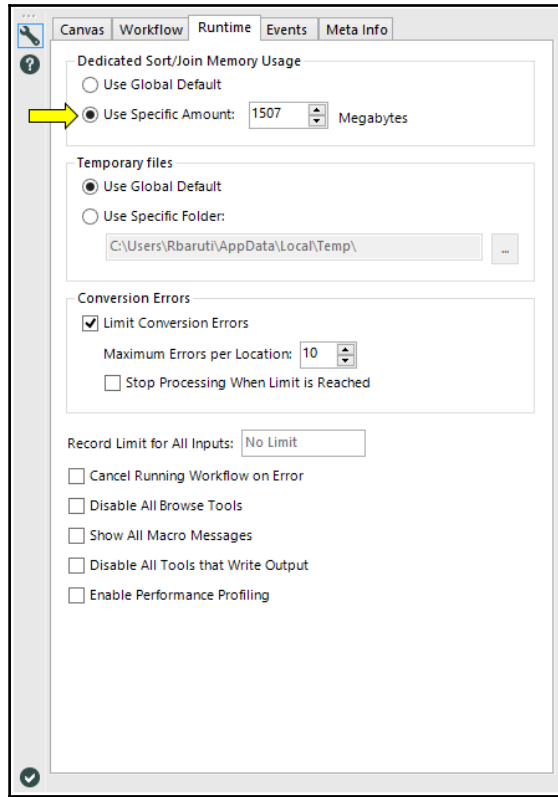




Chapter 2: Workflow Optimization







Results - Input Data (1) - Output

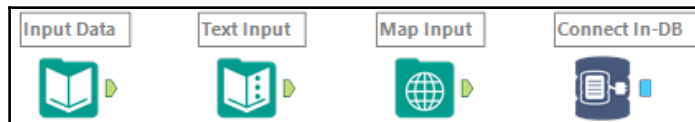
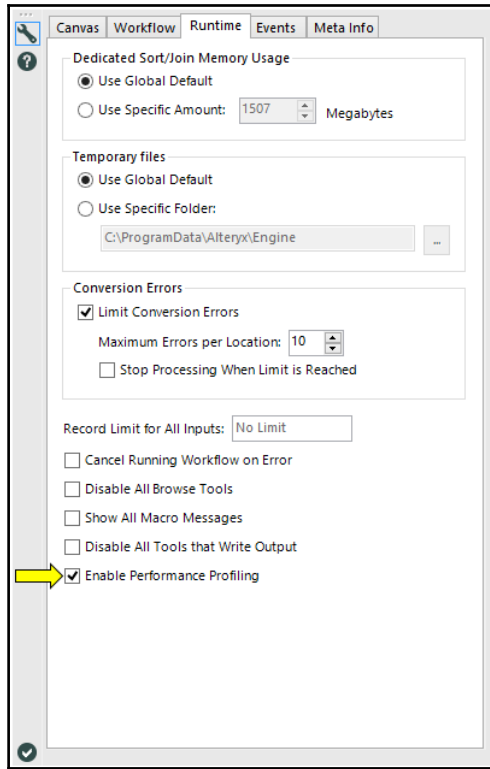
24 of 24 Fields Metadata

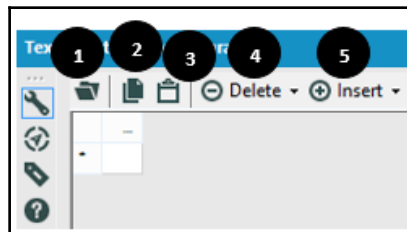
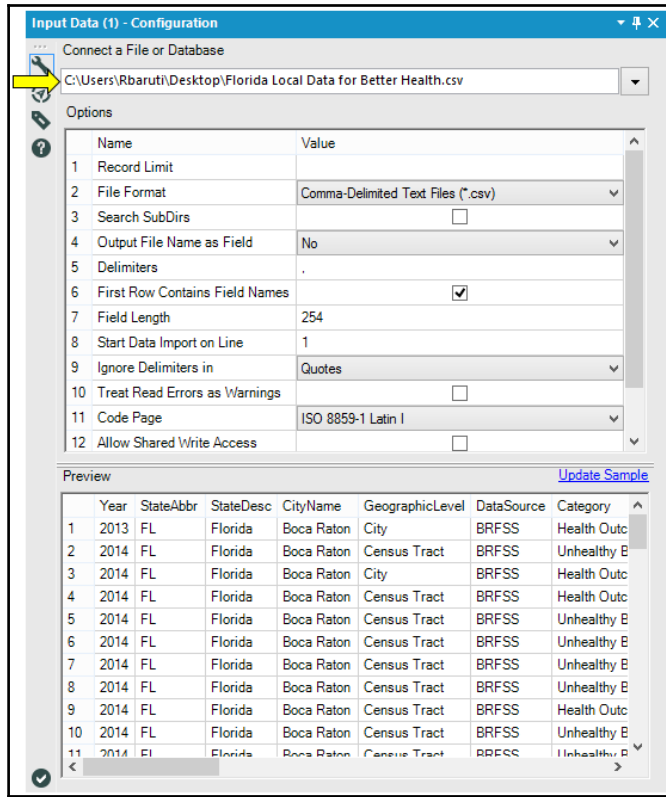
Record #	Name	Type	Size
1	Year	V_String	254
2	StateAbbr	V_String	254
3	StateDesc	V_String	254
4	CityName	V_String	254
5	GeographicLevel	V_String	254
6	DataSource	V_String	254
7	Category	V_String	254
8	UniqueID	V_String	254
9	Measure	V_String	254
10	Data_Value_Unit	V_String	254
11	DataValueTypeID	V_String	254
12	Data_Value_Type	V_String	254
13	Data_Value	V_String	254
14	Low_Confidence_Limit	V_String	254
15	High_Confidence_Limit	V_String	254
16	Data_Value_Footnote_Symbol	V_String	254
17	Data_Value_Footnote	V_String	254
18	PopulationCount	V_String	254
19	GeoLocation	V_String	254
20	CategoryID	V_String	254
21	MeasureID	V_String	254
22	CityFIPS	V_String	254
23	TractFIPS	V_String	254
24	Short_Question_Text	V_String	254

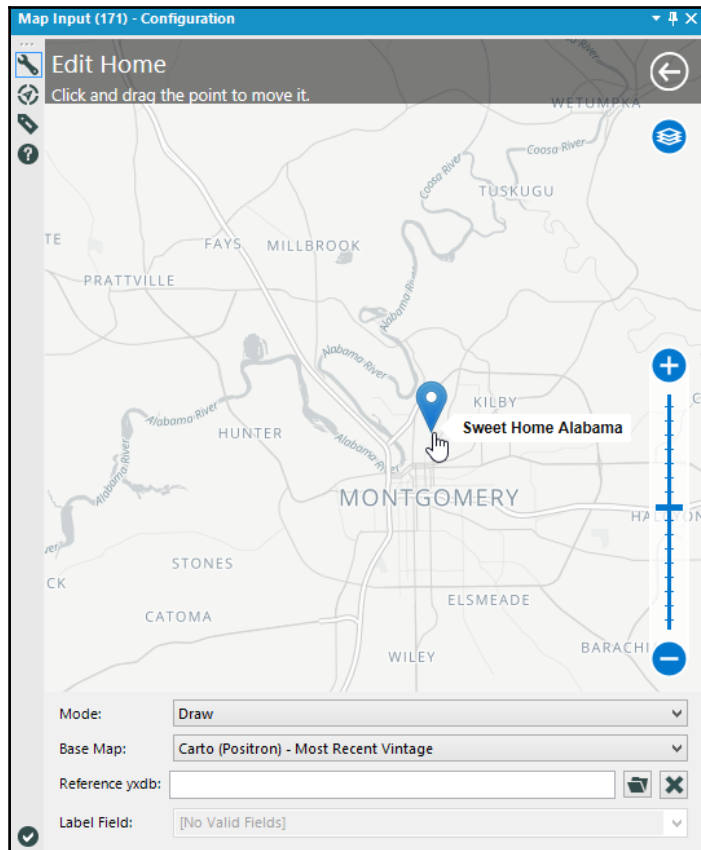
Results - Auto Field (2) - Output

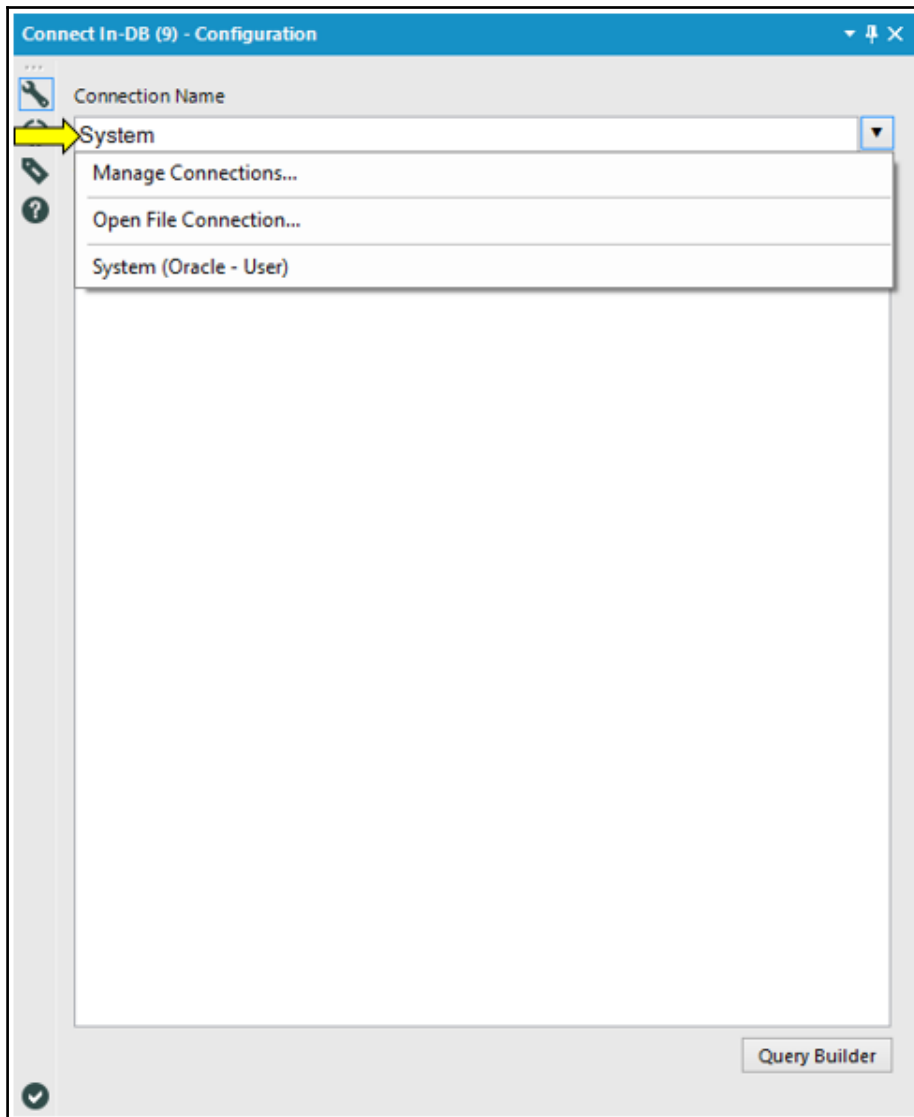
24 of 24 Fields Metadata

Record #	Name	Type	Size
1	Year	Int16	2
2	StateAbbr	String	2
3	StateDesc	String	7
4	CityName	V_String	15
5	GeographicLevel	String	12
6	DataSource	String	5
7	Category	V_String	19
8	UniqueID	String	19
9	Measure	V_String	190
10	Data_Value_Unit	String	1
11	DataValueTypeID	String	9
12	Data_Value_Type	V_String	23
13	Data_Value	Double	8
14	Low_Confidence_Limit	Double	8
15	High_Confidence_Limit	Double	8
16	Data_Value_Footnote_Symbol	String	1
17	Data_Value_Footnote	String	48
18	PopulationCount	Int32	4
19	GeoLocation	String	31
20	CategoryID	String	7
21	MeasureID	V_String	12
22	CityFIPS	Int32	4
23	TractFIPS	Int64	8
24	Short_Question_Text	V_String	40





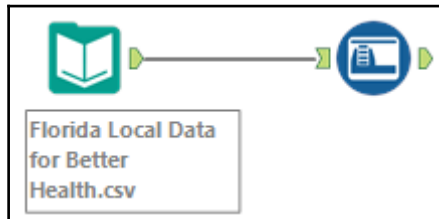
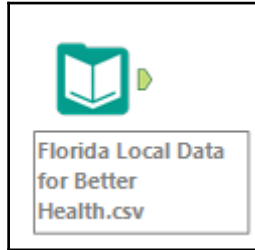




File Types	
Alteryx Database	.yxdb
Alteryx Calgary	.cydb
Alteryx Spatial Zip	.sz
Apache Hadoop Avro	.avro
ASCII Flat	.flat
Autodesk	.sdf
Comma Separated Values	.csv
dBase	.dbf
ESRI GeoDatabase	.gdb
ESRI Personal GeoDatabase	.mdb
ESRI Shapefile	.shp
GIS	.grc, .grd
Google Earth/Maps	.kml
IBM SPSS	.sav
JSON	.json
MapInfo Professional Interchange	.mid, .mif
MapInfo Professional Table	.tab
Microsoft Access 2000-2003	.mdb
Microsoft Excel 1997-2003	.xls
Microsoft Excel 2007, 2010, 2013, 2016	.xlsx
Microsoft Excel Macro Enabled	.xlsm
Microsoft Office Access 2007, 2010, 2013, 2016	.accdb
OpenGIS	.mgl
QlikView	.qvx
SAS	.sas7bdat
SQLite	.sqlite
SRC Geography	.geo
Text	.txt, .asc
XML	.xml
Zip Files	.zip

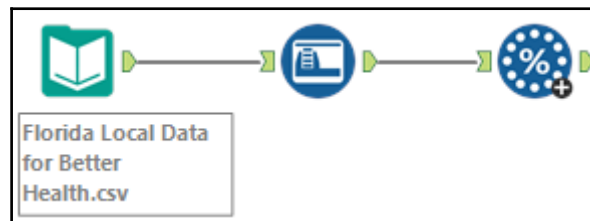
Databases	
Amazon	Amazon Aurora
	Amazon Redshift
Apache Hadoop	Cassandra
	Hadoop Distributed File System (HDFS)
	Hadoop Hive
	Spark
Cloudera	Impala
	Hadoop Distributed File System (HDFS)
	Hadoop Hive
Databricks	Databricks
DataStax	DataStax Enterprise, DataStax Community
Exasolution	EXASOL
Google	Google BigQuery
Hortonworks	Hadoop Distributed File System (HDFS)
	Hadoop Hive
HP	Vertica
IBM	IBM DB2
	IBM Netezza/Pure Data Systems
MapR	Hadoop Distributed File System (HDFS)
	Hadoop Hive
Microsoft	Microsoft Azure SQL Data Warehouse
	Microsoft SQL Server 2009, 2012, 2014, 2016
MySQL	MySQL
Netsuite	Netsuite Suite Analytics
Oracle	Oracle
Pivotal	Pivotal Greenplum
PostgreSQL	PostgreSQL
SAP	SAP Hana
	Sybase Adaptive Server Enterprise
	Sybase SQL Anywhere 10
Teradata	Teradata
	Teradata Aster

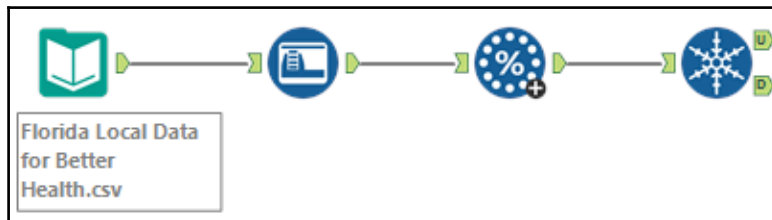
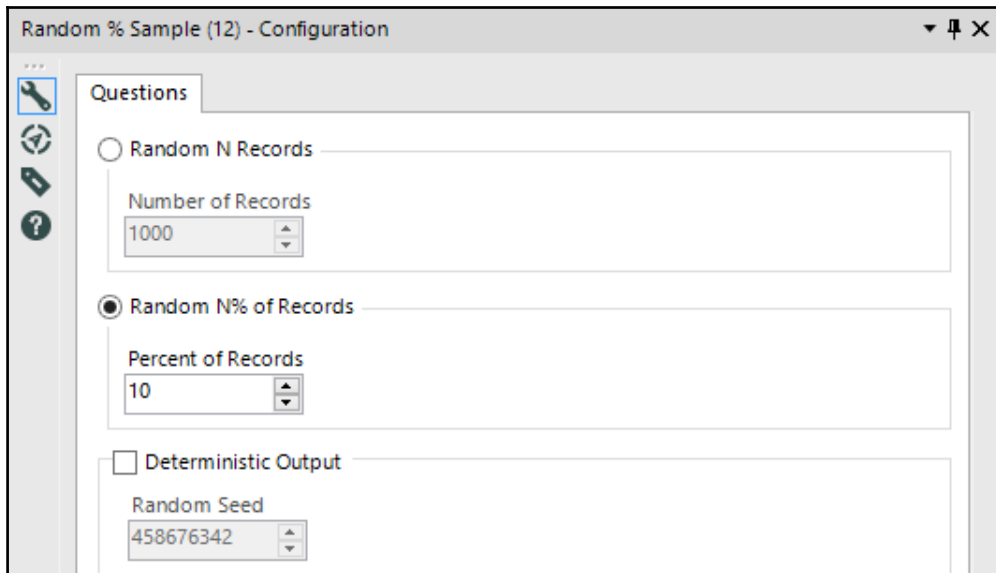
Chapter 3: Data Preparation and Blending

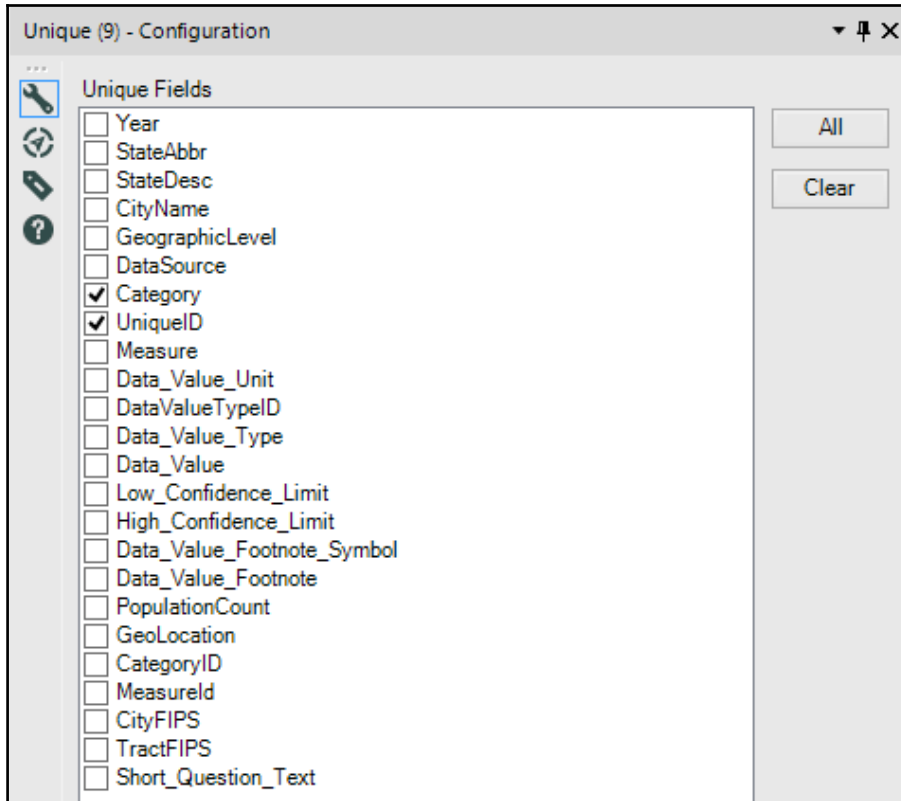


Record #	Name	Type	Size
1	Year	V_String	254
2	StateAbbr	V_String	254
3	StateDesc	V_String	254
4	CityName	V_String	254
5	GeographicLevel	V_String	254
6	DataSource	V_String	254
7	Category	V_String	254
8	UniqueID	V_String	254
9	Measure	V_String	254
10	Data_Value_Unit	V_String	254
11	DataValueTypeID	V_String	254
12	Data_Value_Type	V_String	254
13	Data_Value	V_String	254
14	Low_Confidence_Limit	V_String	254
15	High_Confidence_Limit	V_String	254
16	Data_Value_Footnote_Symbol	V_String	254
17	Data_Value_Footnote	V_String	254
18	PopulationCount	V_String	254
19	GeoLocation	V_String	254
20	CategoryID	V_String	254
21	MeasureID	V_String	254
22	CityFIPS	V_String	254
23	TractFIPS	V_String	254
24	Short_Question_Text	V_String	254

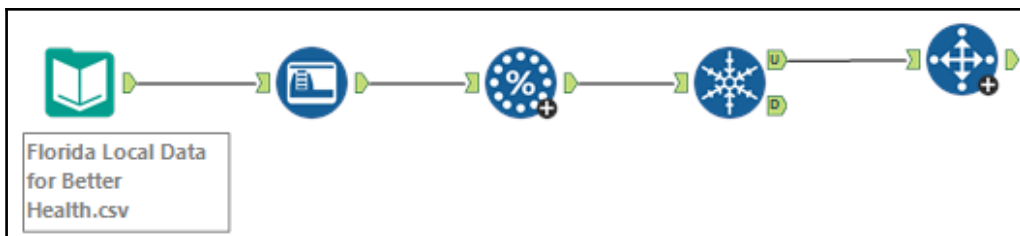
Record #	Name	Type	Size
1	Year	Int16	2
2	StateAbbr	String	2
3	StateDesc	String	7
4	CityName	V_String	15
5	GeographicLevel	String	12
6	DataSource	String	5
7	Category	V_String	19
8	UniqueID	String	19
9	Measure	V_String	190
10	Data_Value_Unit	String	1
11	DataValueTypeID	String	9
12	Data_Value_Type	V_String	23
13	Data_Value	Double	8
14	Low_Confidence_Limit	Double	8
15	High_Confidence_Limit	Double	8
16	Data_Value_Footnote_Symbol	String	1
17	Data_Value_Footnote	String	48
18	PopulationCount	Int32	4
19	GeoLocation	String	31
20	CategoryID	String	7
21	MeasureID	V_String	12
22	CityFIPS	Int32	4
23	TractFIPS	Int64	8
24	Short_Question_Text	V_String	40

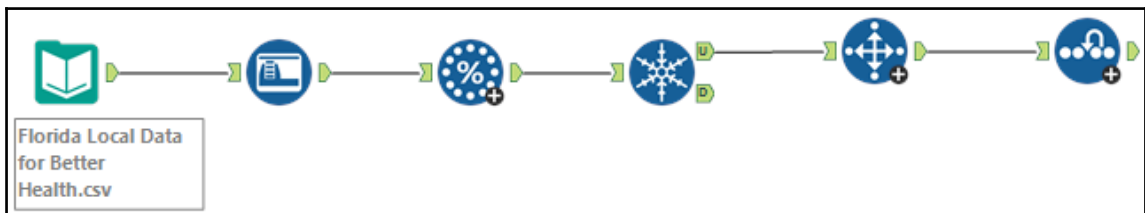
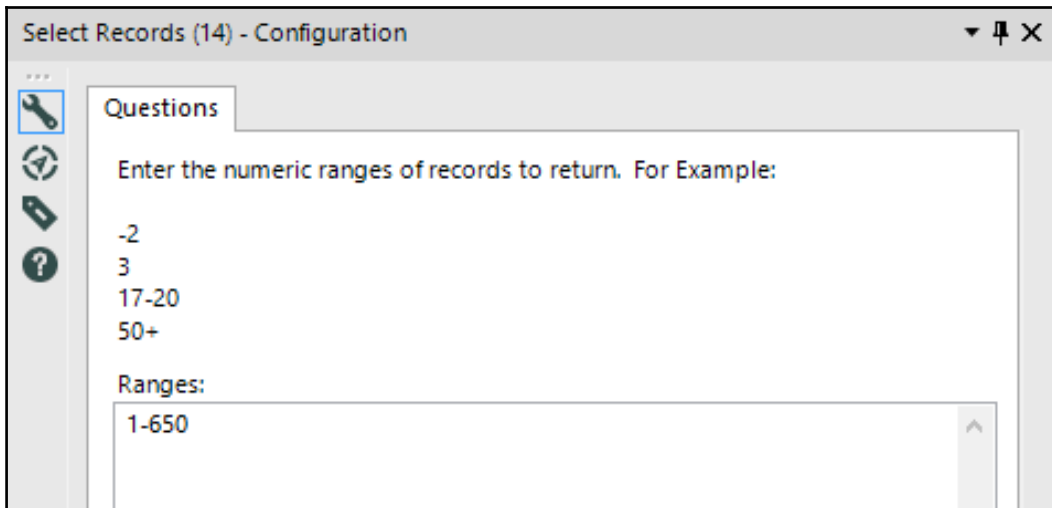


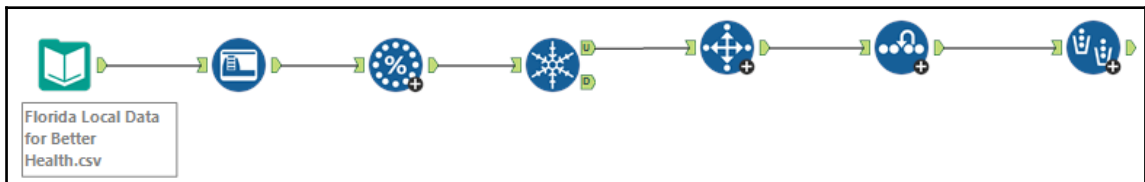
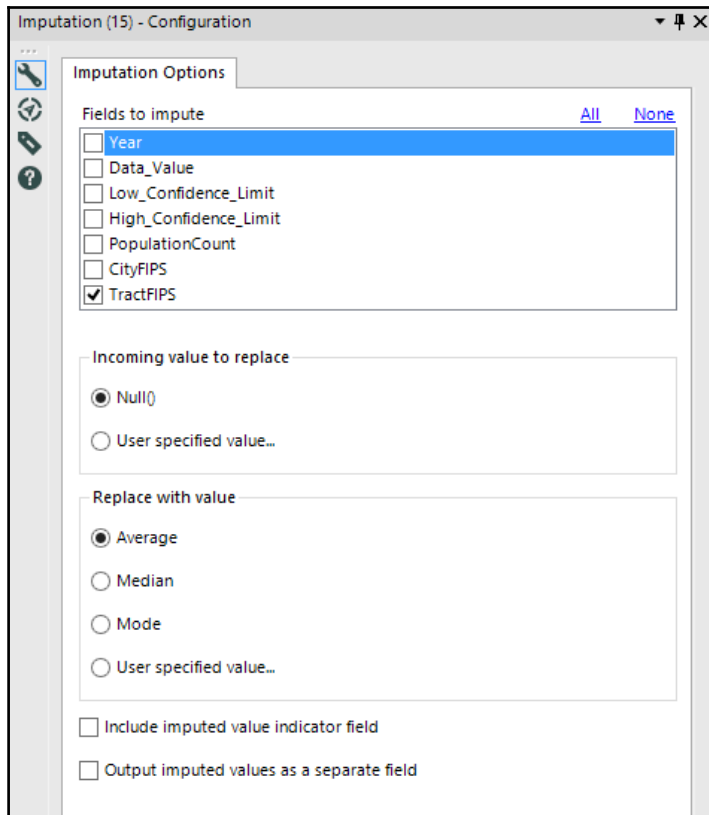


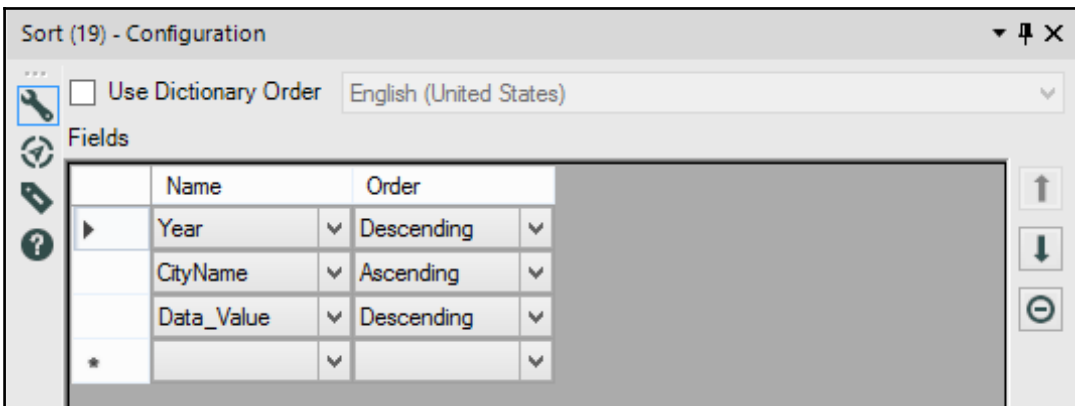
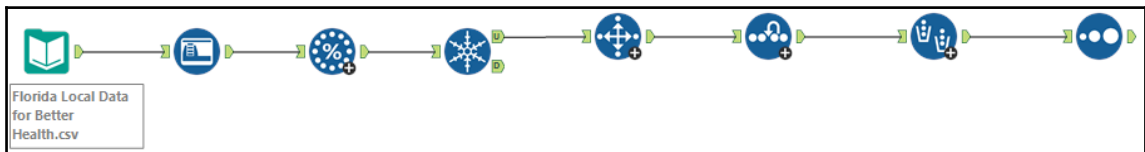
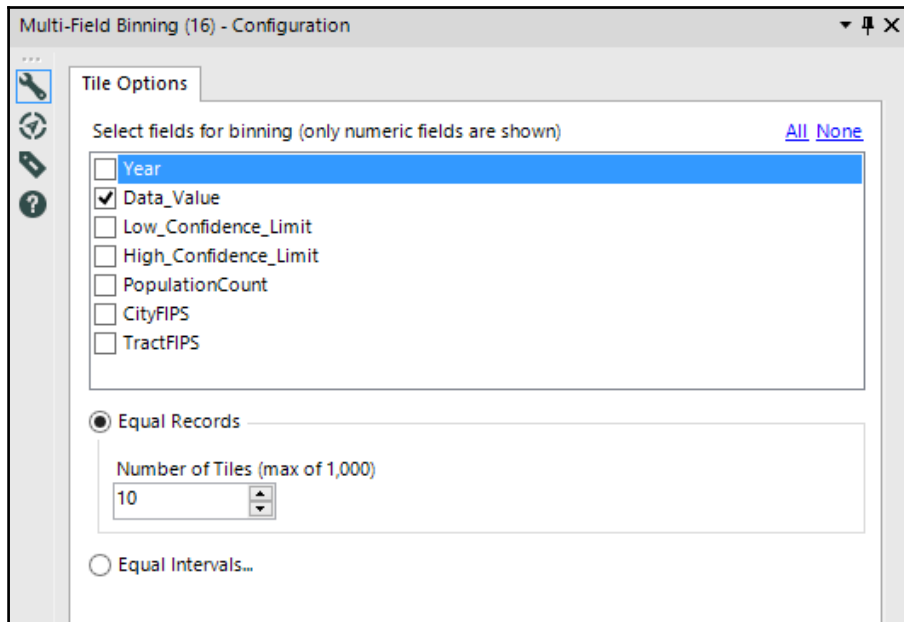


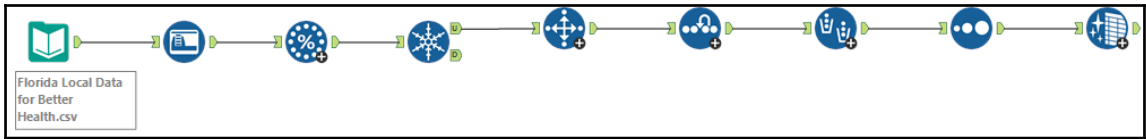
Record #	Category	UniquelD	Measure
1	Prevention	1212875	Taking medicine for high blood pressure control among adults aged >= 18 Years with high blood pressure
2	Unhealthy Behaviors	1212875	Current smoking among adults aged >= 18 Years
3	Health Outcomes	1212875	Mental health not good for >= 14 days among adults aged >= 18 Years
4	Unhealthy Behaviors	1212875	Obesity among adults aged >= 18 Years
5	Prevention	1212875	Papnicolaou smear use among adult women aged 21-65 Years











Data Cleansing (34) - Configuration

Options

Select Fields to Cleanse [All](#) [None](#)

- Data_Value_Type
- Data_Value
- Low_Confidence_Limit
- High_Confidence_Limit
- Data_Value_Footnote_Symbol
- Data_Value_Footnote
- PopulationCount
- GeoLocation

Replace Nulls

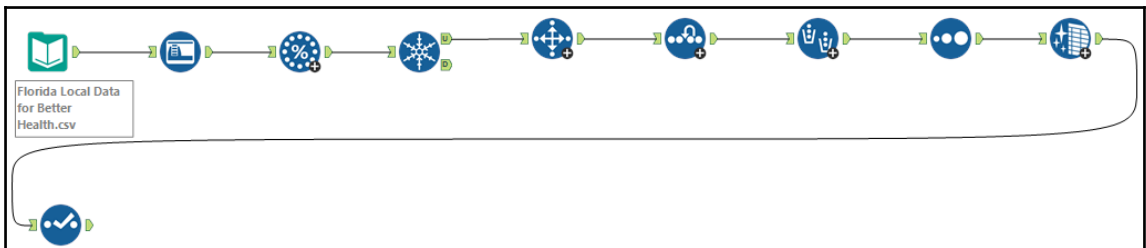
- Replace with Blanks (String Fields)
- Replace with 0 (Numeric Fields)

Remove Unwanted Characters

- Leading and Trailing Whitespace
- Tabs, Line Breaks, and Duplicate Whitespace
- All Whitespace
- Letters
- Numbers
- Punctuation

Modify Case

Upper Case



Select (36) - Configuration

Options ▾ | ↑ ↓ | TIP: To reorder multiple rows: select, right-click and drag.

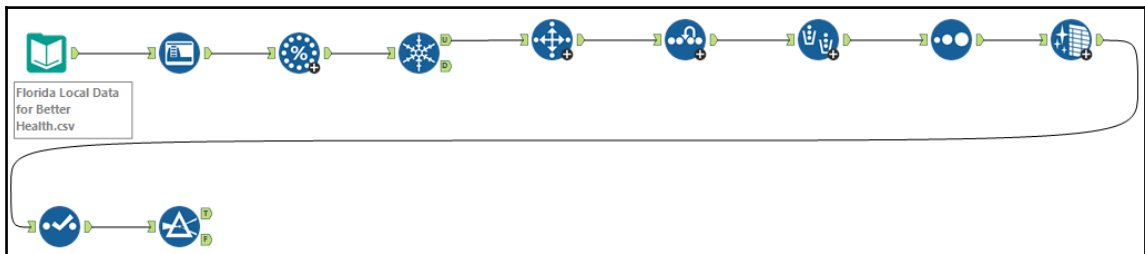
	Field	Type	Size	Rename	Description
<input checked="" type="checkbox"/>	Year	Double	8		
<input checked="" type="checkbox"/>	StateAbbr	V_String	23		
<input type="checkbox"/>	StateDesc	V_String	23		
<input checked="" type="checkbox"/>	CityName	V_String	23		
<input checked="" type="checkbox"/>	GeographicLevel	V_String	23		
<input type="checkbox"/>	DataSource	V_String	23		
<input checked="" type="checkbox"/>	Category	V_String	23		
<input checked="" type="checkbox"/>	UniqueID	V_String	23		
<input type="checkbox"/>	Measure	V_String	190		
<input type="checkbox"/>	Data_Value_Unit	V_String	23		
<input type="checkbox"/>	DataValueTypeID	V_String	23		
<input type="checkbox"/>	Data_Value_Type	V_String	23		
<input checked="" type="checkbox"/>	Data_Value	Double	8		
<input checked="" type="checkbox"/>	Low_Confidence_Limit	Double	8		
<input checked="" type="checkbox"/>	High_Confidence_Limit	Double	8		
<input checked="" type="checkbox"/>	Data_Value_Footnote_Symbol	V_String	23		
<input checked="" type="checkbox"/>	Data_Value_Footnote	V_String	48		
<input checked="" type="checkbox"/>	PopulationCount	Double	8		
<input type="checkbox"/>	GeoLocation	V_String	31		
<input type="checkbox"/>	CategoryID	V_String	23		
<input type="checkbox"/>	MeasureID	V_String	23		
<input type="checkbox"/>	CityFIPS	Double	8		
<input checked="" type="checkbox"/>	TractFIPS	Double	8		
<input type="checkbox"/>	Short_Question_Text	V_String	40		

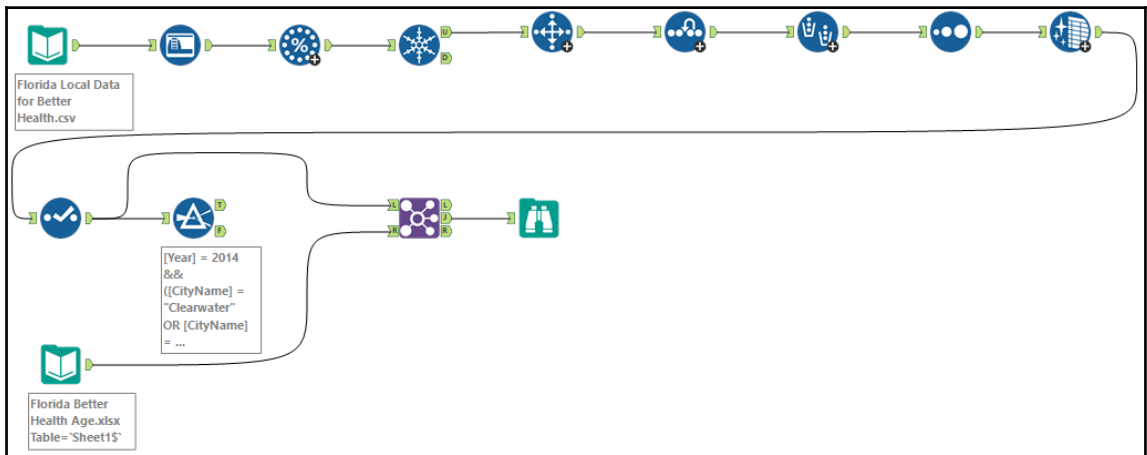
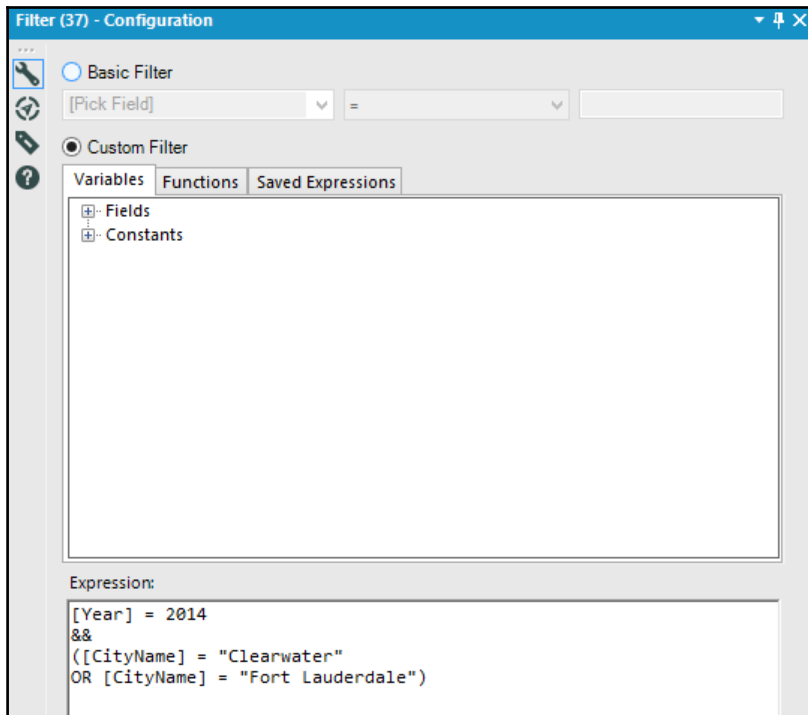
Use commas as decimal separators (String/Numeric conversions only)

Results - Select (36) - Output

13 of 13 Fields Metadata

Record #	Name	Type	Size
1	Year	Double	8
2	StateAbbr	V_String	23
3	CityName	V_String	23
4	GeographicLevel	V_String	23
5	Category	V_String	23
6	UniqueID	V_String	23
7	Data_Value	Double	8
8	Low_Confidence_Limit	Double	8
9	High_Confidence_Limit	Double	8
10	Data_Value_Footnote_Symbol	V_String	23
11	Data_Value_Footnote	V_String	48
12	PopulationCount	Double	8
13	TractFIPS	Double	8





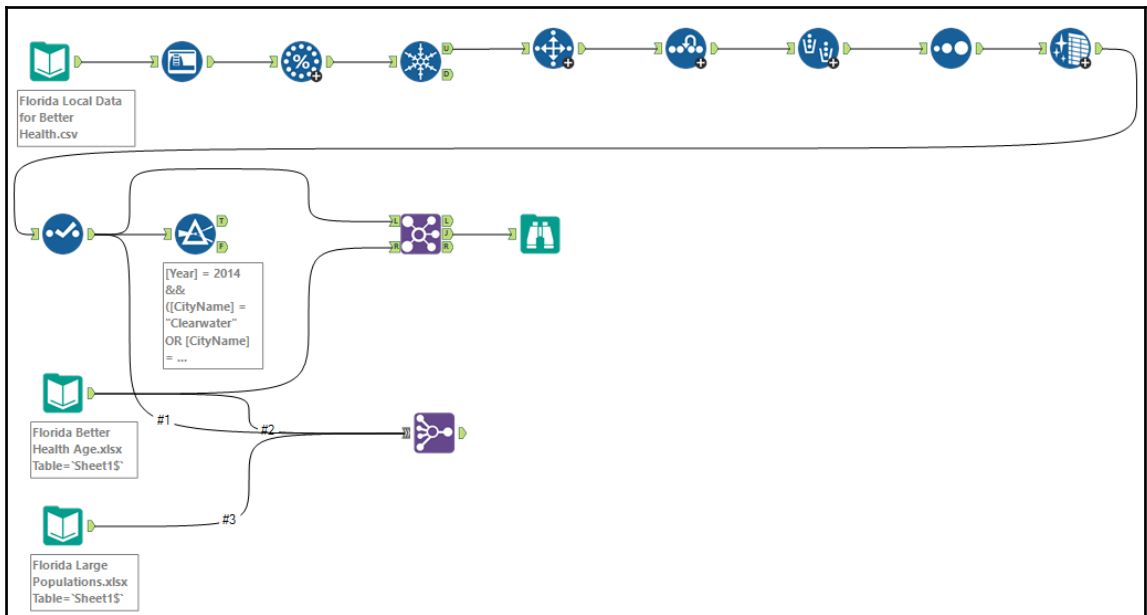
Join (39) - Configuration

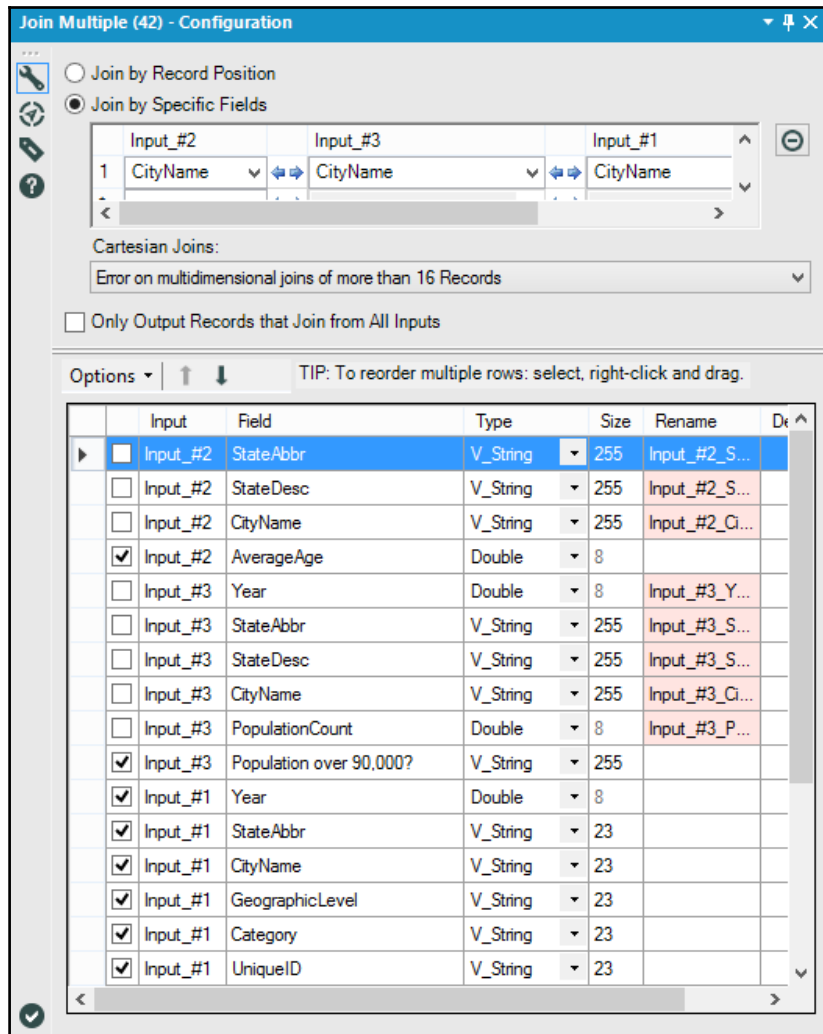
Join by Record Position
 Join by Specific Fields

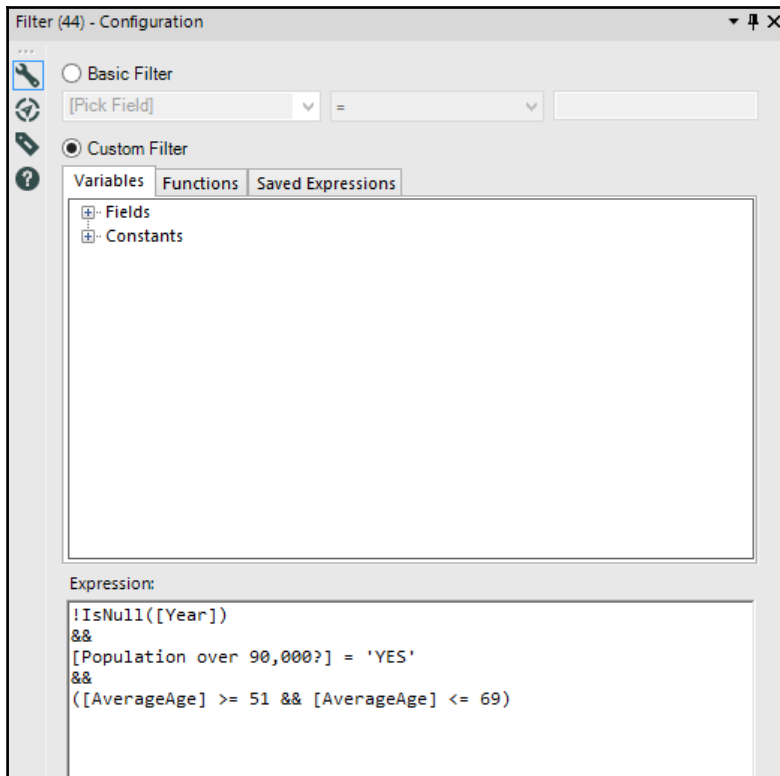
Left	Right
1 CityName	CityName
*	

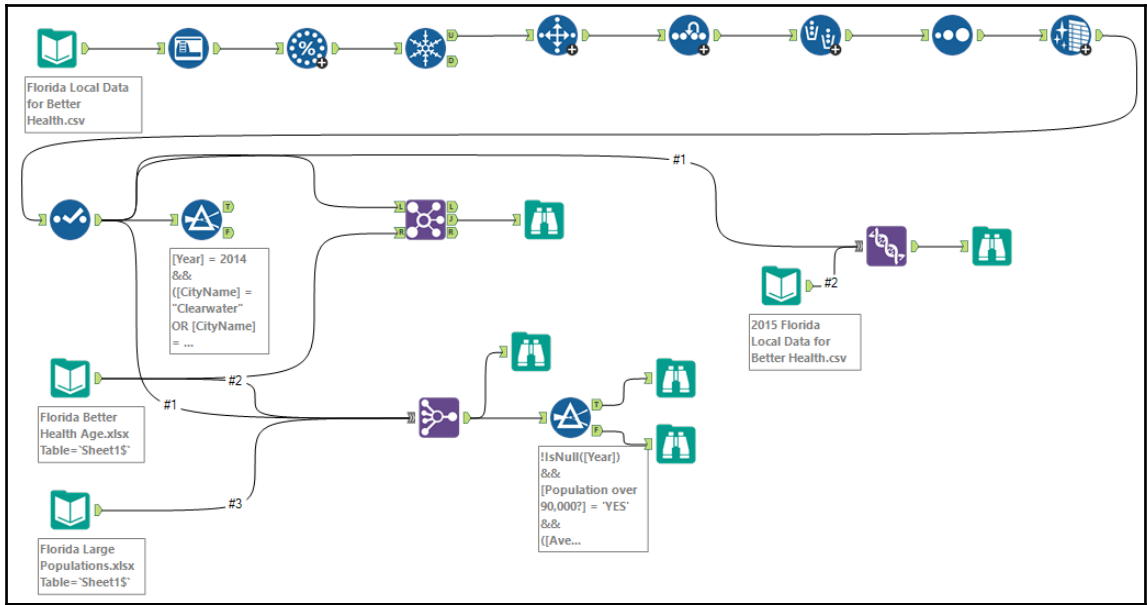
Options | TIP: To reorder multiple rows: select, right-click and drag.

	Input	Field	Type	Size	Rename
<input checked="" type="checkbox"/>	Left	Category	V_String	23	
<input checked="" type="checkbox"/>	Left	UniqueID	V_String	23	
<input checked="" type="checkbox"/>	Left	Data_Value	Double	8	
<input checked="" type="checkbox"/>	Left	Low_Confidence_Limit	Double	8	
<input checked="" type="checkbox"/>	Left	High_Confidence_Limit	Double	8	
<input checked="" type="checkbox"/>	Left	Data_Value_Footnote_Symbol	V_String	23	
<input checked="" type="checkbox"/>	Left	Data_Value_Footnote	V_String	48	
<input checked="" type="checkbox"/>	Left	PopulationCount	Double	8	
<input checked="" type="checkbox"/>	Left	TractFIPS	Double	8	
<input type="checkbox"/>	Right	StateAbbr	V_String	255	Right_Stat...
<input type="checkbox"/>	Right	StateDesc	V_String	255	
<input type="checkbox"/>	Right	CityName	V_String	255	Right_City...
<input checked="" type="checkbox"/>	Right	AverageAge	Double	8	
<input checked="" type="checkbox"/>		*Unknown	Unknown	0	









Tool Container (50) - Configuration

Caption: ID:

[Reset to Defaults](#)

Text Color:

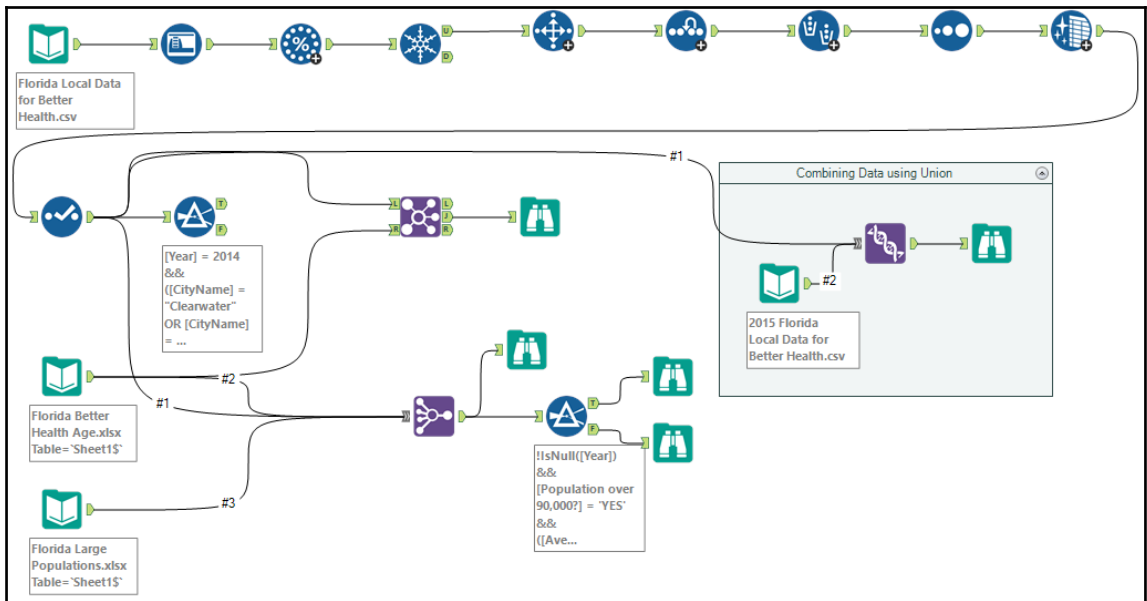
Fill Color:

Border Color:

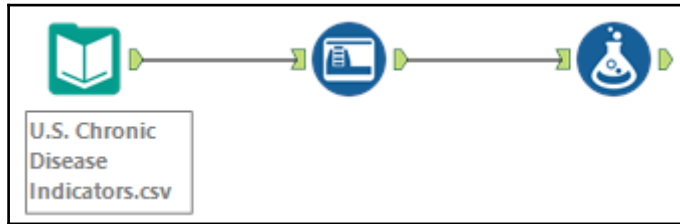
Transparency:

Margin:

Disabled



Chapter 4: Writing Fast and Accurate Expressions



Formula (8) - Configuration

Output Column	Data Preview
Data Source	
"U.S. CDI"	

Data type: V_WString Size: 1073741823

Results - Formula (11) - Output

47 of 47 Fields Metadata

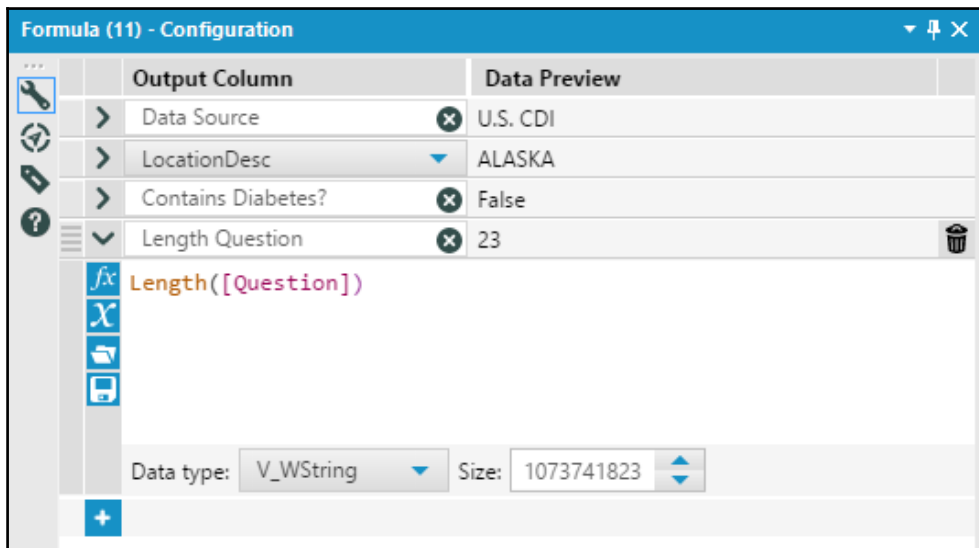
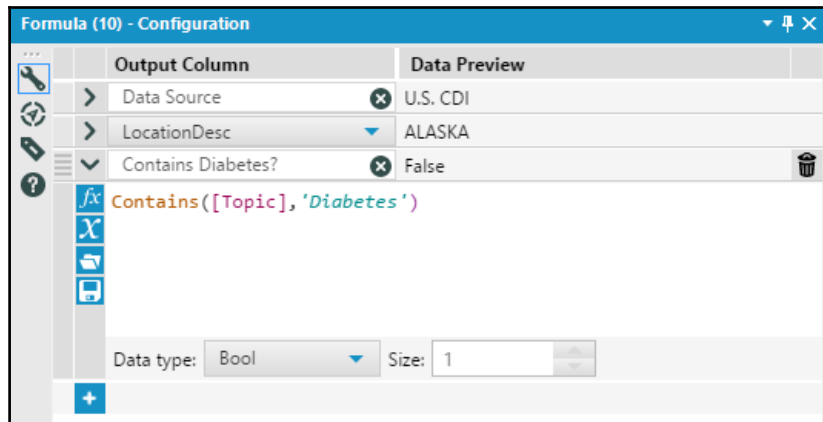
Record #	ionCategoryID3	StratificationID3	Data Source
1		[Null]	U.S. CDI
2		[Null]	U.S. CDI
3		[Null]	U.S. CDI
4		[Null]	U.S. CDI
5		[Null]	U.S. CDI
6		[Null]	U.S. CDI
7		[Null]	U.S. CDI
8		[Null]	U.S. CDI
9		[Null]	U.S. CDI
10		[Null]	U.S. CDI
11		[Null]	U.S. CDI
12		[Null]	U.S. CDI
13		[Null]	U.S. CDI

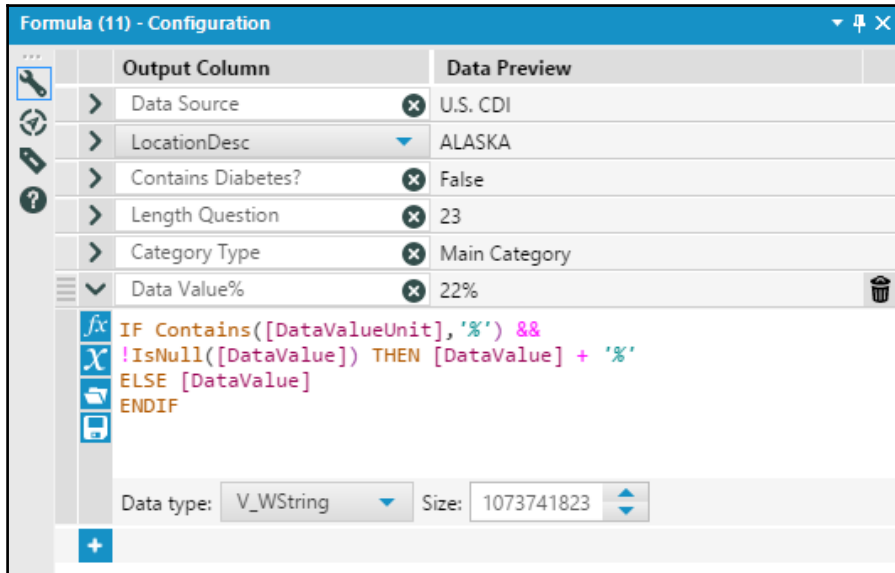
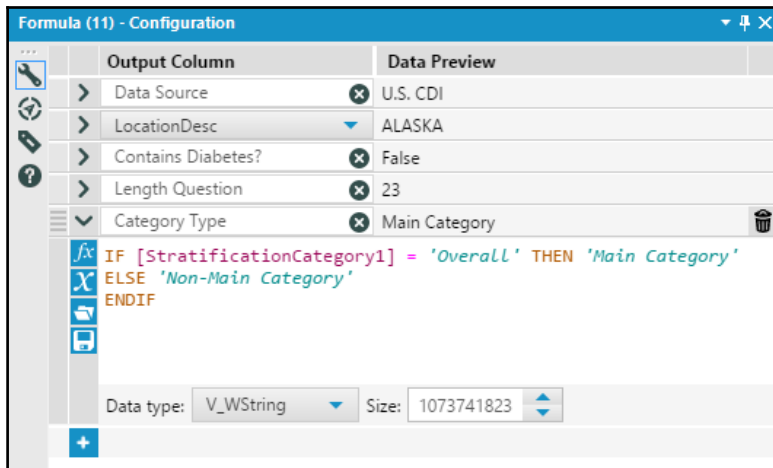
Formula (8) - Configuration

Output Column	Data Preview
Data Source	U.S. CDI
LocationDesc	ALASKA

`Uppercase([LocationDesc])`

Data type: V_String Size: 20





Formula (11) - Configuration

Output Column	Data Preview
> Data Source	U.S. CDI
> LocationDesc	ALASKA
> Contains Diabetes?	False
> Length Question	23
> Category Type	Main Category
> Data Value%	22%
> DataValueTypeID	CrdPrev

`Replace([DataValueTypeID], 'Nbr', 'Number')`

Data type: V_String Size: 17

Formula (11) - Configuration

Output Column	Data Preview
> Data Source	U.S. CDI
> LocationDesc	ALASKA
> Contains Diabetes?	False
> Length Question	23
> Category Type	Main Category
> Data Value%	22%
> DataValueTypeID	CrdPrev
> N Locations	False

`StartsWith([LocationDesc], 'N')`

Data type: Bool Size: 1

Formula (11) - Configuration

Output Column	Data Preview
> Data Source	U.S. CDI
> LocationDesc	ALASKA
> Contains Diabetes?	False
> Length Question	23
> Category Type	Main Category
> Data Value%	22%
> DataValueTypeID	CrdPrev
> N Locations	False
> New_LCL	19

`FLOOR([LowConfidenceLimit])`

Data type: V_WString Size: 1073741824

Formula (11) - Configuration

Output Column	Data Preview
> Data Source	U.S. CDI
> LocationDesc	ALASKA
> Contains Diabetes?	False
> Length Question	23
> Category Type	Main Category
> Data Value%	22%
> DataValueTypeID	CrdPrev
> N Locations	False
> New_LCL	19
> Sqrt_DataValue	4.69

`ROUND(SQRT(tonumber([DataValue])),0.01)`

Data type: V_WString Size: 1073741823

Formula (11) - Configuration

	Output Column	Data Preview
>	Data Source	U.S. CDI
>	LocationDesc	ALASKA
>	Contains Diabetes?	False
>	Length Question	23
>	Category Type	Main Category
>	Data Value%	22%
>	DataValueTypeID	CrdPrev
>	N Locations	False
>	New_LCL	19
>	SQRT_DataValue	4.69
∨	3rd_Question_Word	among

`GetWord([Question],2)`

Data type: V_WString Size: 1073741823

Formula (11) - Configuration

Output Column	Data Preview
> Data Source	U.S. CDI
> LocationDesc	ALASKA
> Contains Diabetes?	False
> Length Question	23
> Category Type	Main Category
> Data Value%	22%
> DataValueTypeID	CrdPrev
> N Locations	False
> New_LCL	19
> SQRT_DataValue	4.69
> 3rd_Question_Word	among
> Pad_LocationID	02

`PadLeft(ToString([LocationID]),2,'0')`

Data type: V_WString Size: 1073741823

Formula (11) - Configuration

Output Column	Data Preview
> Data Source	U.S. CDI
> LocationDesc	ALASKA
> Contains Diabetes?	False
> Length Question	23
> Category Type	Main Category
> Data Value%	22%
> DataValueTypeID	CrdPrev
> N Locations	False
> New_LCL	19
> SQRT_DataValue	4.69
> 3rd_Question_Word	among
> Pad_LocationID	02
> Question_Word_Count	4

`CountWords([Question])`

Data type: V_WString Size: 1073741823

Formula (11) - Configuration

Output Column	Data Preview
> Data Source	U.S. CDI
> LocationDesc	ALASKA
> Contains Diabetes?	False
> Length Question	23
> Category Type	Main Category
> Data Value%	22%
> DataValueTypeID	CrdPrev
> N Locations	False
> New_LCL	19
> SQRT_DataValue	4.69
> 3rd_Question_Word	among
> Pad_LocationID	02
> Question_Word_Count	4
> TOB_SEQUENCE	NA

```
IF LEFT([QuestionID],3) = 'TOB' THEN  
Substring([QuestionID],3,1)  
ELSE "NA"  
ENDIF
```

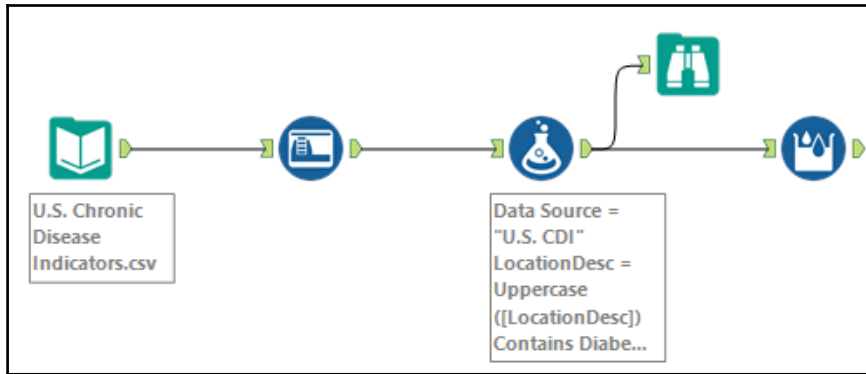
Data type: V_WString Size: 1073741823

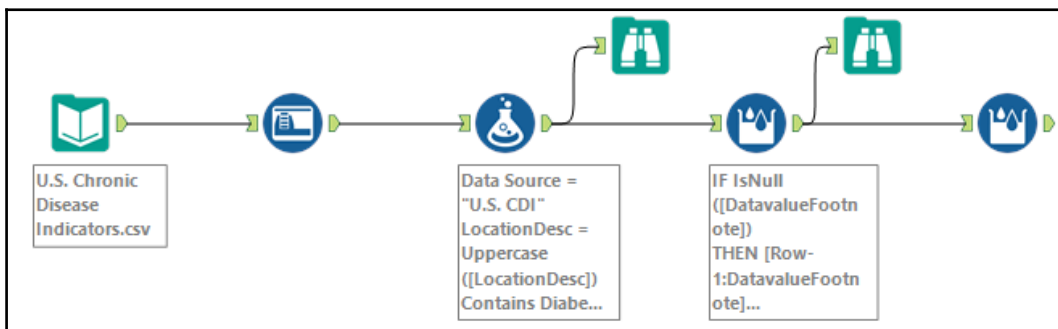
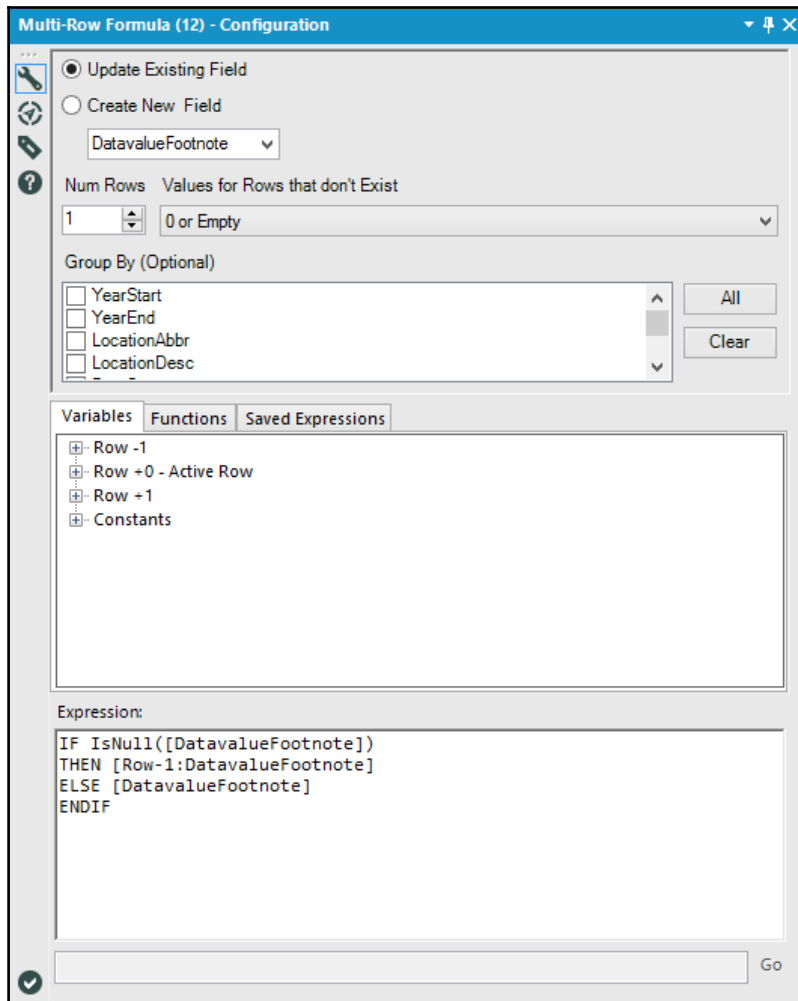
Formula (11) - Configuration

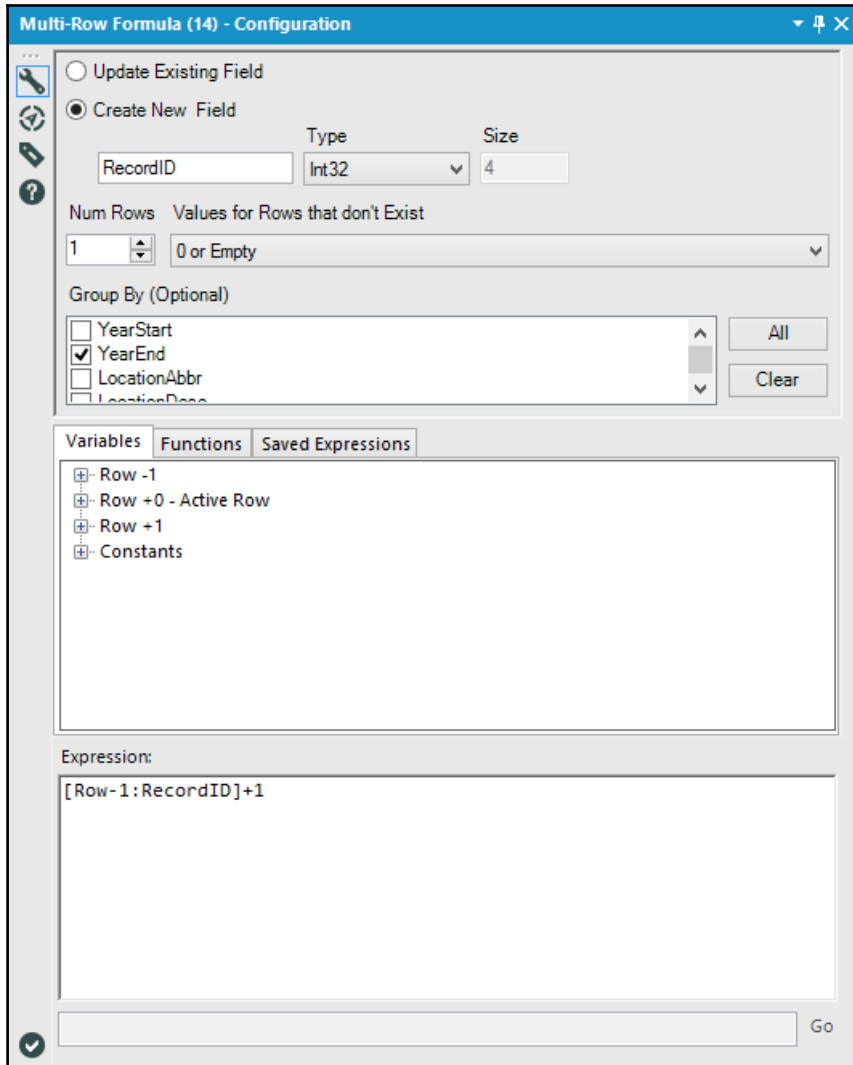
Output Column	Data Preview
> Data Source	U.S. CDI
> LocationDesc	ALASKA
> Contains Diabetes?	False
> Length Question	23
> Category Type	Main Category
> Data Value%	22%
> DataValueTypeID	CrdPrev
> N Locations	False
> New_LCL	19
> SQRT_DataValue	4.69
> 3rd_Question_Word	among
> Pad_LocationID	02
> Question_Word_Count	4
> TOB_SEQUENCE	NA
> UPDATE_DATETIME	2017-11-12 11:44:17

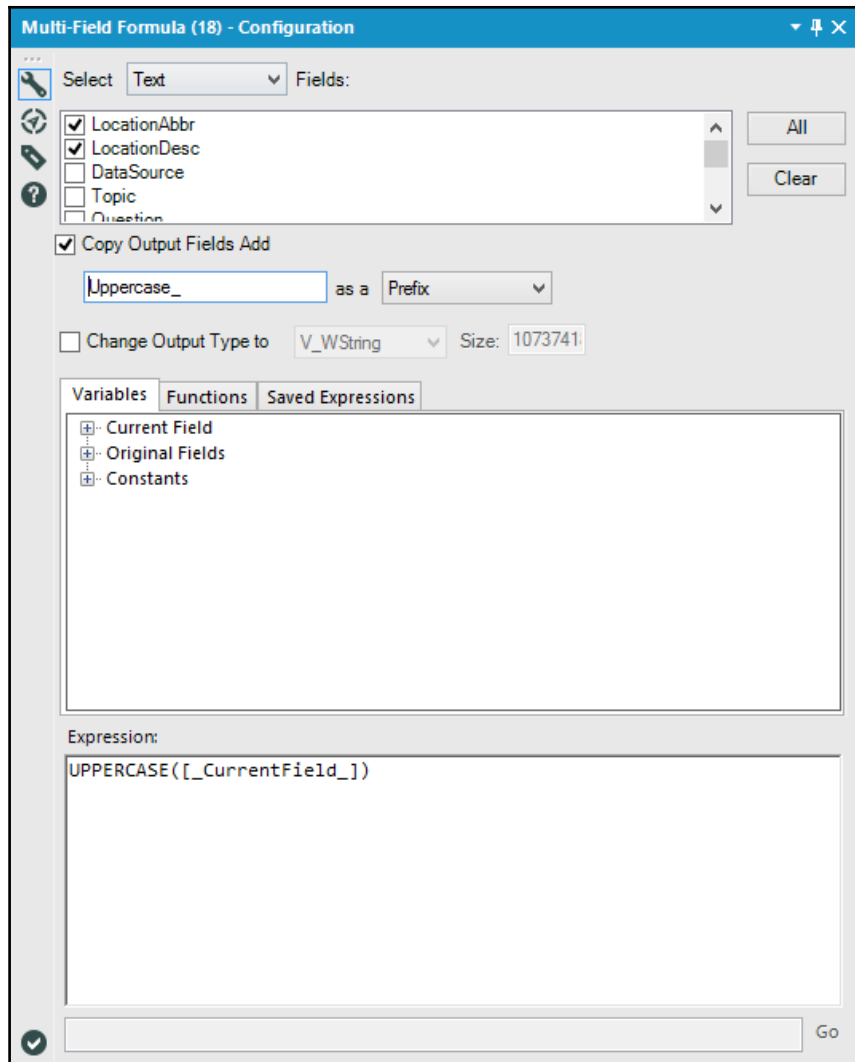
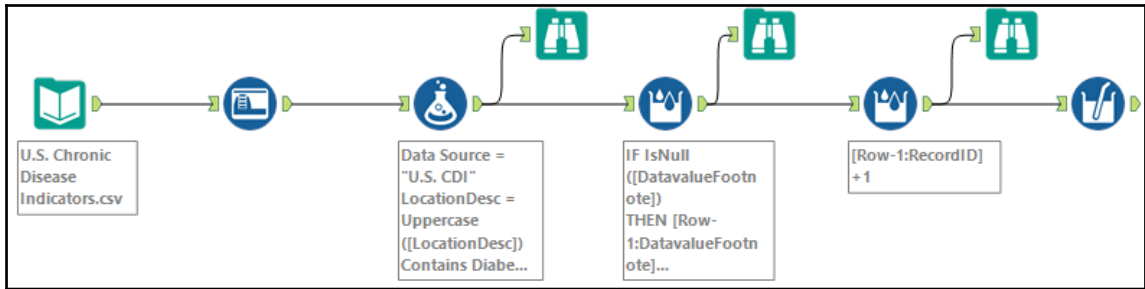
```
DateTimeNow()
```

Data type: DateTime Size: 19

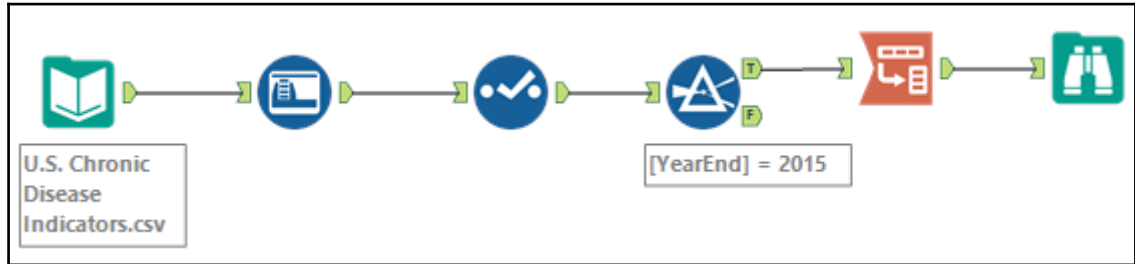


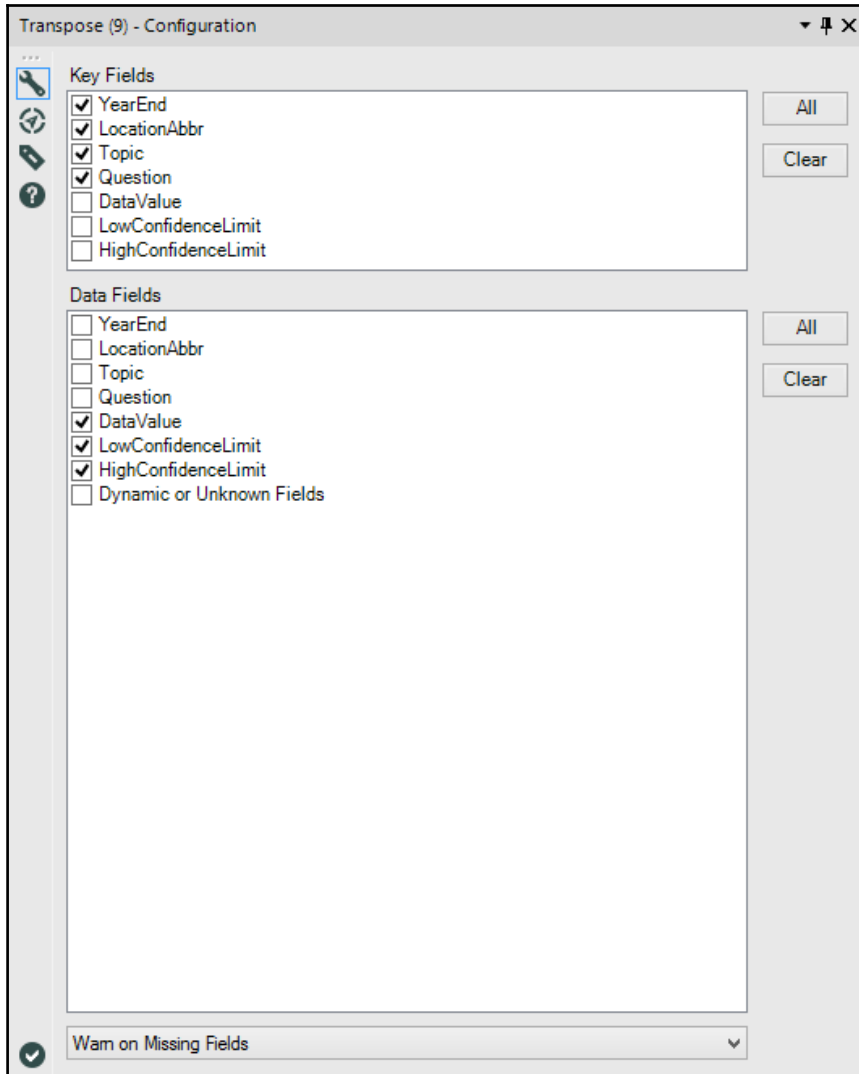






Chapter 5: Transforming Data





Cross Tab (16) - Configuration

Group Data by these Values

- LocationAbbr
- Topic
- Question
- DataValue
- StratificationCategory1

New Column Headers

StratificationCategory1

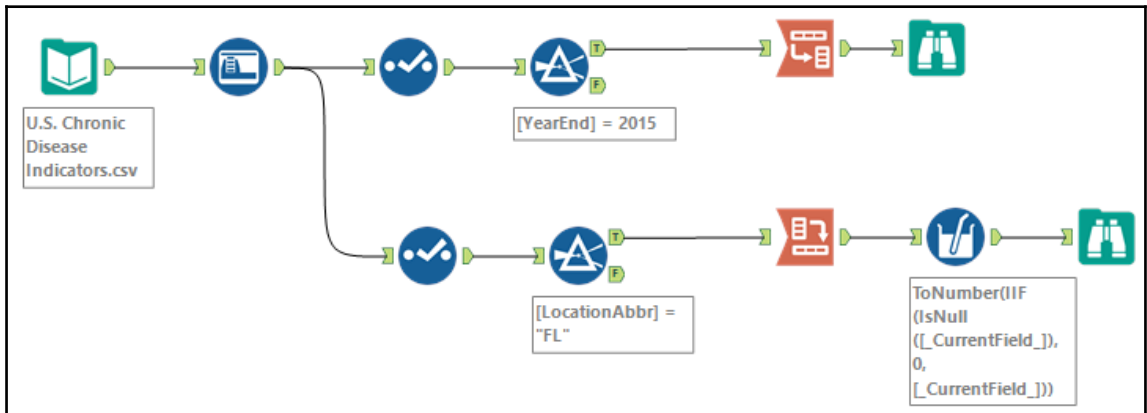
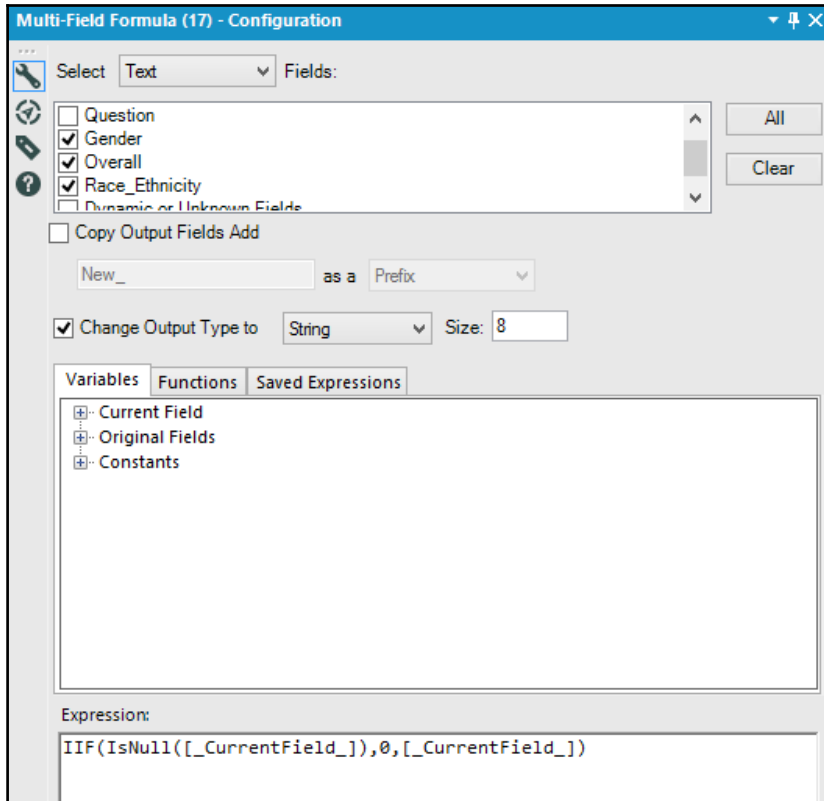
Values for New Columns

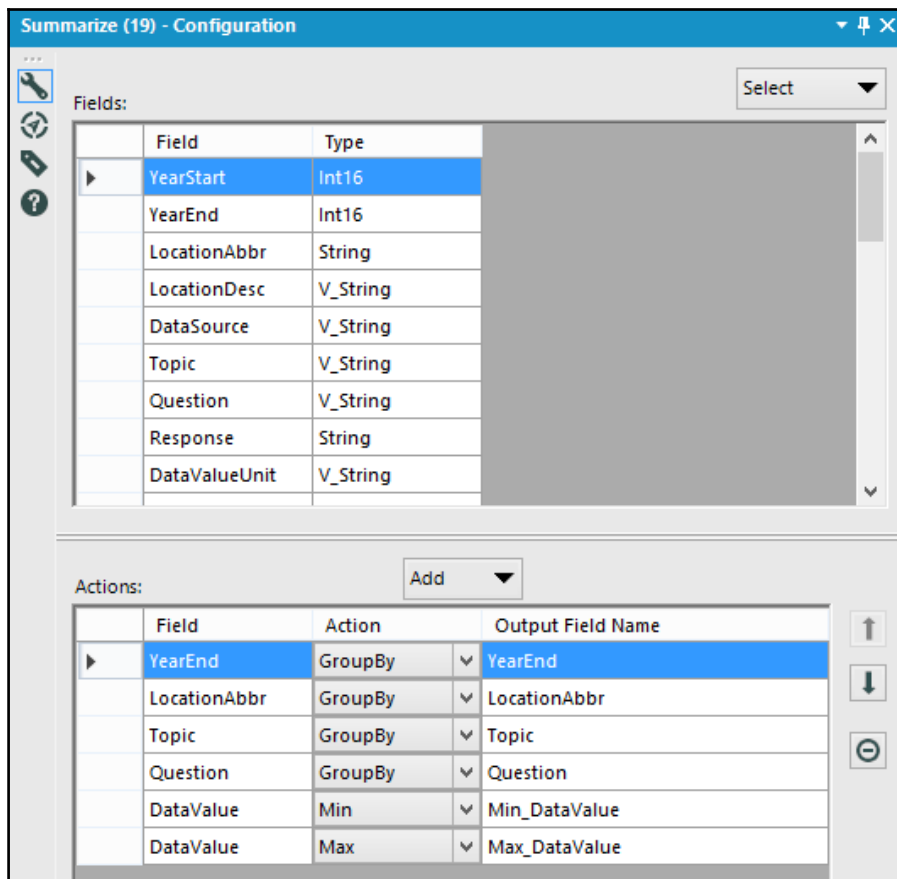
DataValue

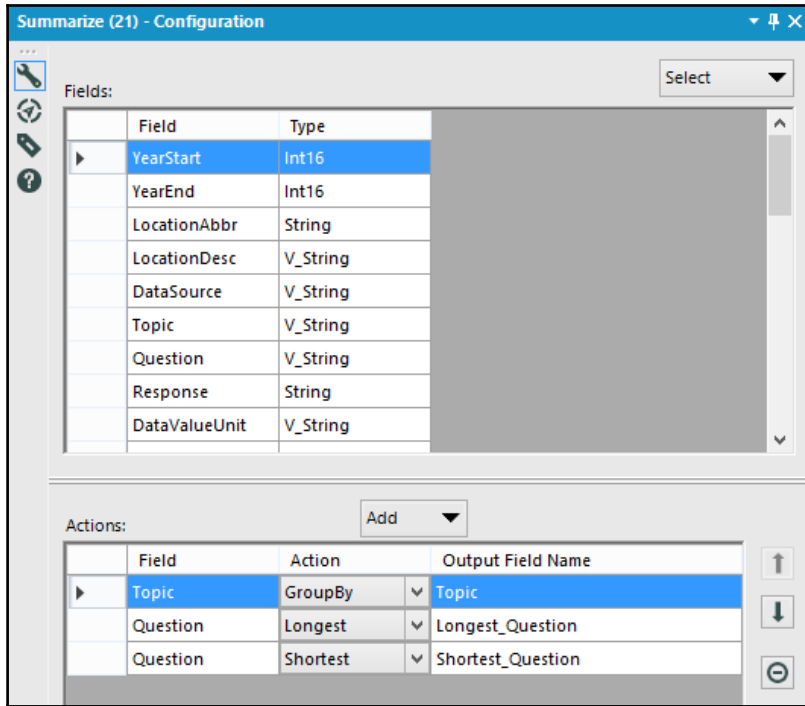
Method for Aggregating Values

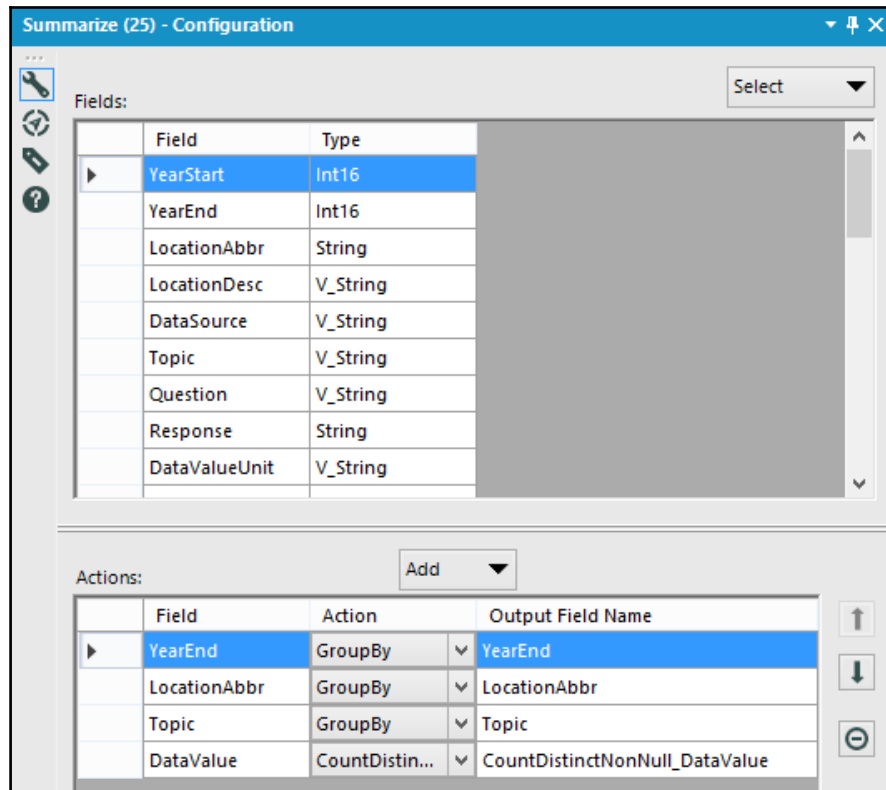
- Concatenate
- First
- Last

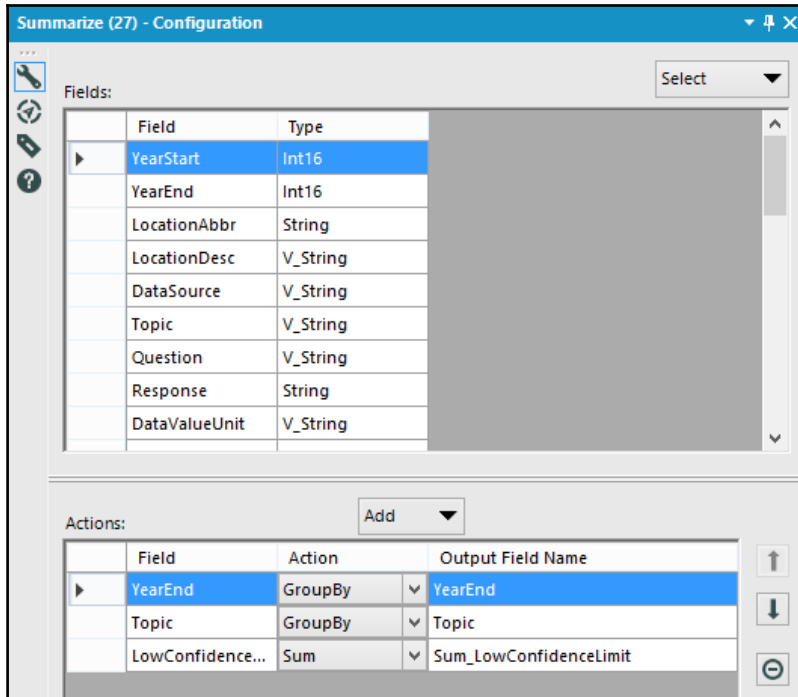
Separator: . Field Size: 2048











Summarize (29) - Configuration

Fields: Select

	Field	Type
▶	YearStart	Int16
	YearEnd	Int16
	LocationAbbr	String
	LocationDesc	V_String
	DataSource	V_String
	Topic	V_String
	Question	V_String
	Response	String
	DataValueUnit	V_String

Actions: Add

	Field	Action	Output Field Name
▶	Topic	GroupBy	Topic
	StratificationCategoryID1	CountDistinct	CountDistinct_StratificationC...

Summarize (31) - Configuration

Fields: Select

Field	Type
YearStart	Int16
YearEnd	Int16
LocationAbbr	String
LocationDesc	V_String
DataSource	V_String
Topic	V_String
Question	V_String
Response	String
DataValueUnit	V_String

Actions: Add

Field	Action	Output Field Name
Topic	GroupBy	Topic
TopicID	GroupBy	TopicID
DataValueAlt	Avg	Avg_DataValueAlt
DataValueAlt	AvgNo0	AvgNo0_DataValueAlt

Running Total (33) - Configuration

Group By (Optional)

YearEnd
 LocationAbbr
 LocationDesc
 DataSource
 Topic

All
Clear

Create Running Total

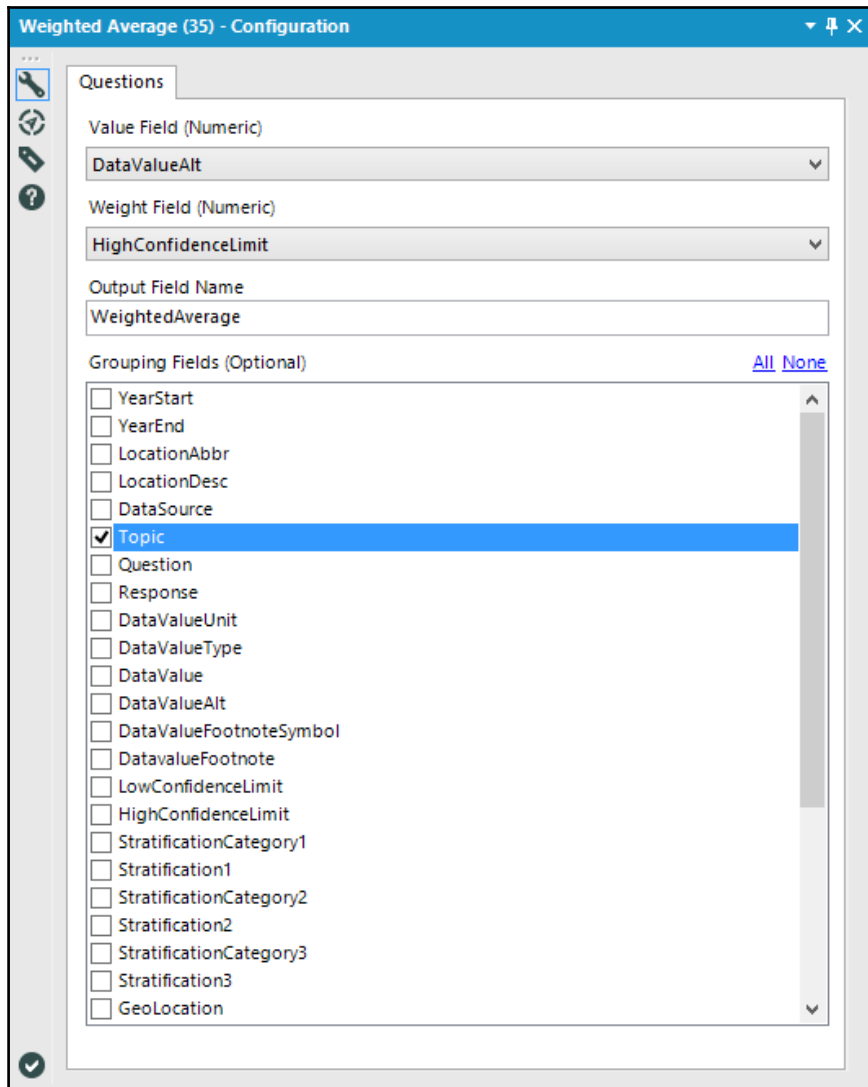
YearStart
 YearEnd
 DataValueAlt
 LowConfidenceLimit
 HighConfidenceLimit
 LocationID

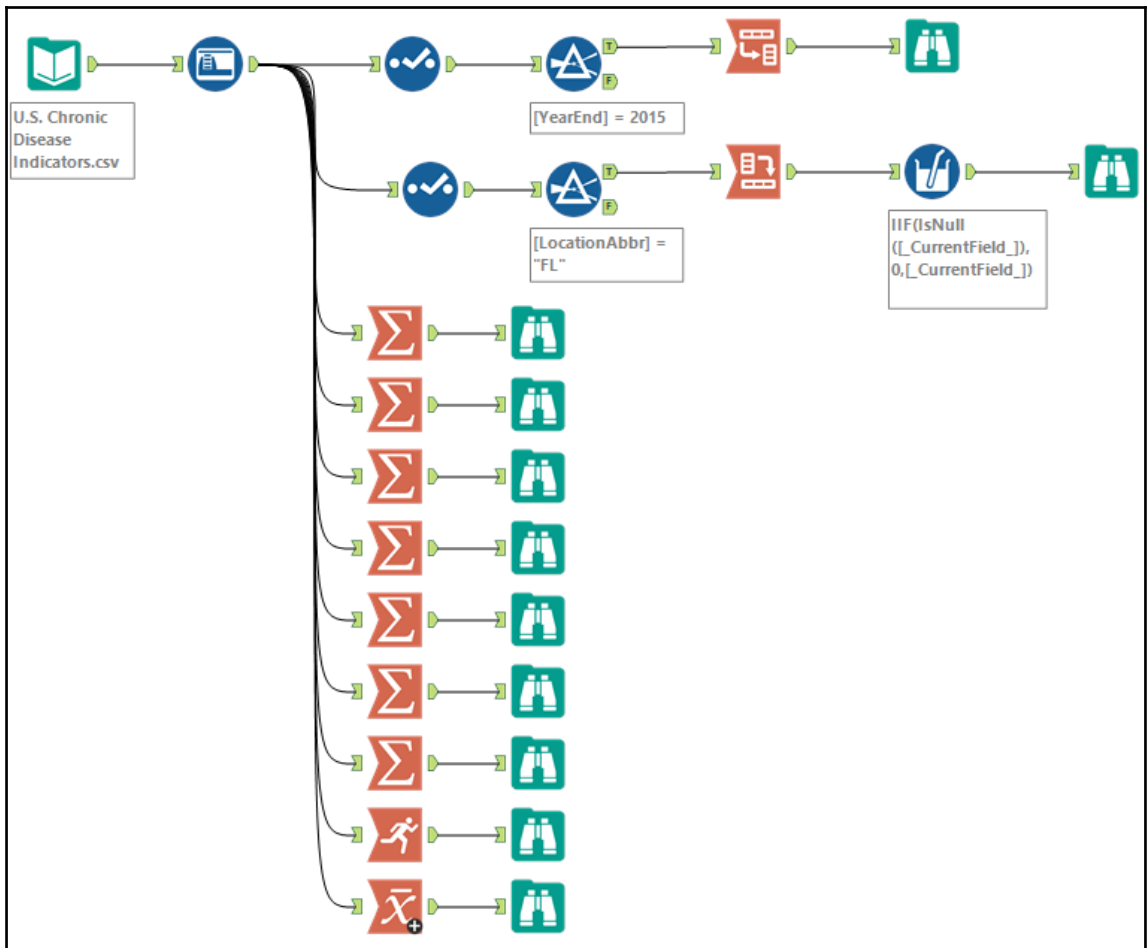
All
Clear

Results - Browse (34) - Input

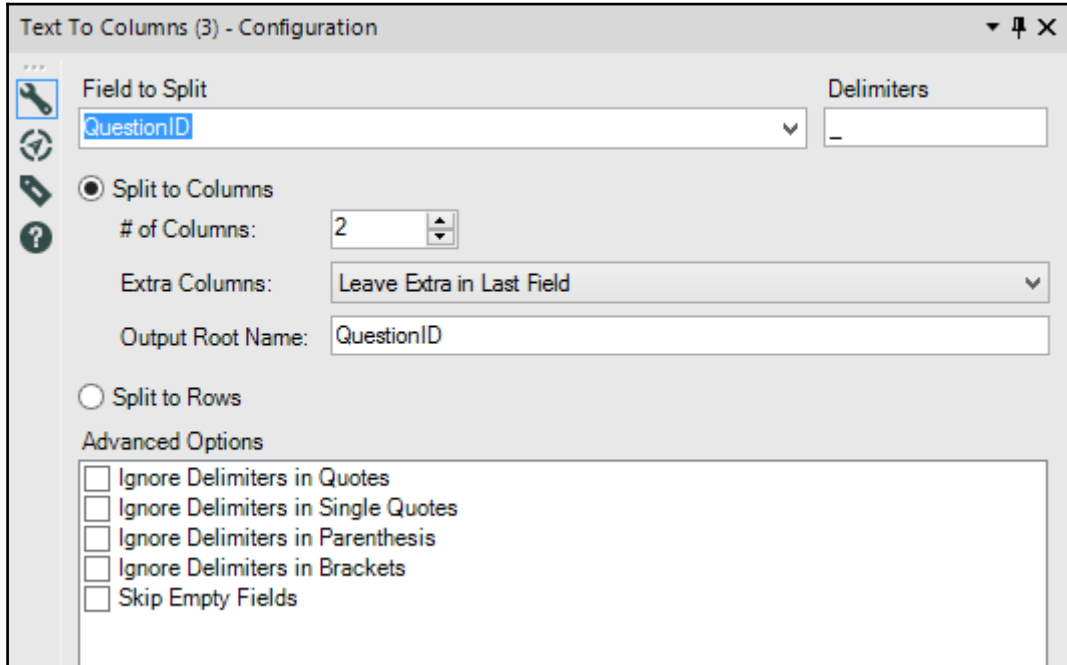
35 of 35 Fields ✓ Metadata

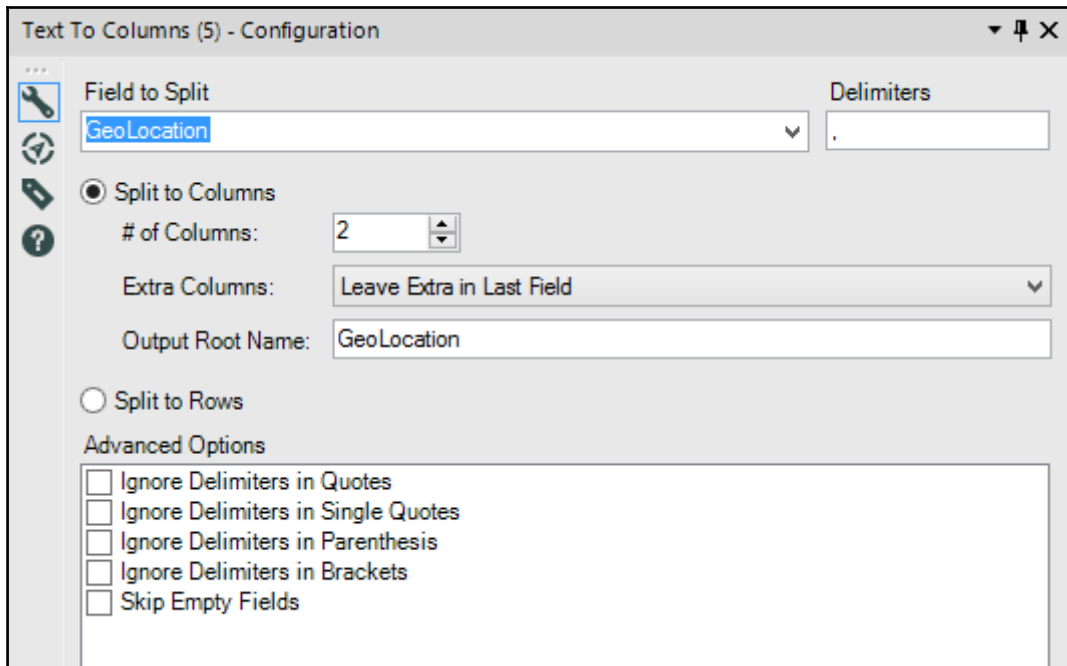
Record #	oryID3	StratificationID3	RunTot_DataValueAlt
1		[Null]	76.63
2		[Null]	151.43
3		[Null]	226.86
4		[Null]	305.01
5		[Null]	383.81
6		[Null]	462.53
7		[Null]	541.43
8		[Null]	614.52
9		[Null]	691.56
10		[Null]	769.66
11		[Null]	844.93
12		[Null]	925.16
13		[Null]	1003.92





Chapter 6: Data Parsing Techniques





The screenshot shows a configuration window titled "Formula (7) - Configuration". It contains two rows of output columns. The first row is for "Latitude" with a data preview of "64.84507995700051" and the formula `Trim(Replace([GeoLocation1], "(", ""))`. The second row is for "Longitude" with a data preview of "-147.72205903599973" and the formula `Trim(Replace([GeoLocation2], ")", ""))`. Both rows have a data type of "V_WString" and a size of "1073741823".

Output Column	Data Preview
Latitude	64.84507995700051
Longitude	-147.72205903599973

Formula for Latitude: `Trim(Replace([GeoLocation1], "(", ""))`

Data type: V_WString Size: 1073741823

Formula for Longitude: `Trim(Replace([GeoLocation2], ")", ""))`

Data type: V_WString Size: 1073741823

Text To Columns (11) - Configuration

Field to Split: Question

Delimiters: \s

Split to Columns

of Columns: 3

Extra Columns: Leave Extra in Last Field

Output Root Name: Question

Split to Rows

Advanced Options

- Ignore Delimiters in Quotes
- Ignore Delimiters in Single Quotes
- Ignore Delimiters in Parenthesis
- Ignore Delimiters in Brackets
- Skip Empty Fields

Results - Select (9) - Output

8 of 8 Fields

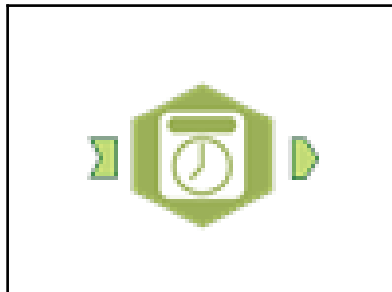
Data Metadata

Record #	Topic	Question	Response
1	Alcohol	Alcohol use among youth	[Null]
2	Alcohol	Alcohol use among youth	[Null]
3	Alcohol	Alcohol use among youth	[Null]
4	Alcohol	Alcohol use among youth	[Null]
5	Alcohol	Alcohol use among youth	[Null]
6	Alcohol	Alcohol use among youth	[Null]
7	Alcohol	Alcohol use among youth	[Null]
8	Alcohol	Alcohol use among youth	[Null]
9	Alcohol	Alcohol use among youth	[Null]
10	Alcohol	Alcohol use among youth	[Null]
11	Alcohol	Alcohol use among youth	[Null]
12	Alcohol	Alcohol use among youth	[Null]
13	Alcohol	Alcohol use among youth	[Null]

Results - Text To Columns (11) - Output

8 of 8 Fields Data Metadata

Record #	Topic	Question	Response	DataValueAll
1	Alcohol	Alcohol	[Null]	22
2	Alcohol	use	[Null]	22
3	Alcohol	among	[Null]	22
4	Alcohol	youth	[Null]	22
5	Alcohol	Alcohol	[Null]	30.7
6	Alcohol	use	[Null]	30.7
7	Alcohol	among	[Null]	30.7
8	Alcohol	youth	[Null]	30.7
9	Alcohol	Alcohol	[Null]	27.6
10	Alcohol	use	[Null]	27.6
11	Alcohol	among	[Null]	27.6
12	Alcohol	youth	[Null]	27.6

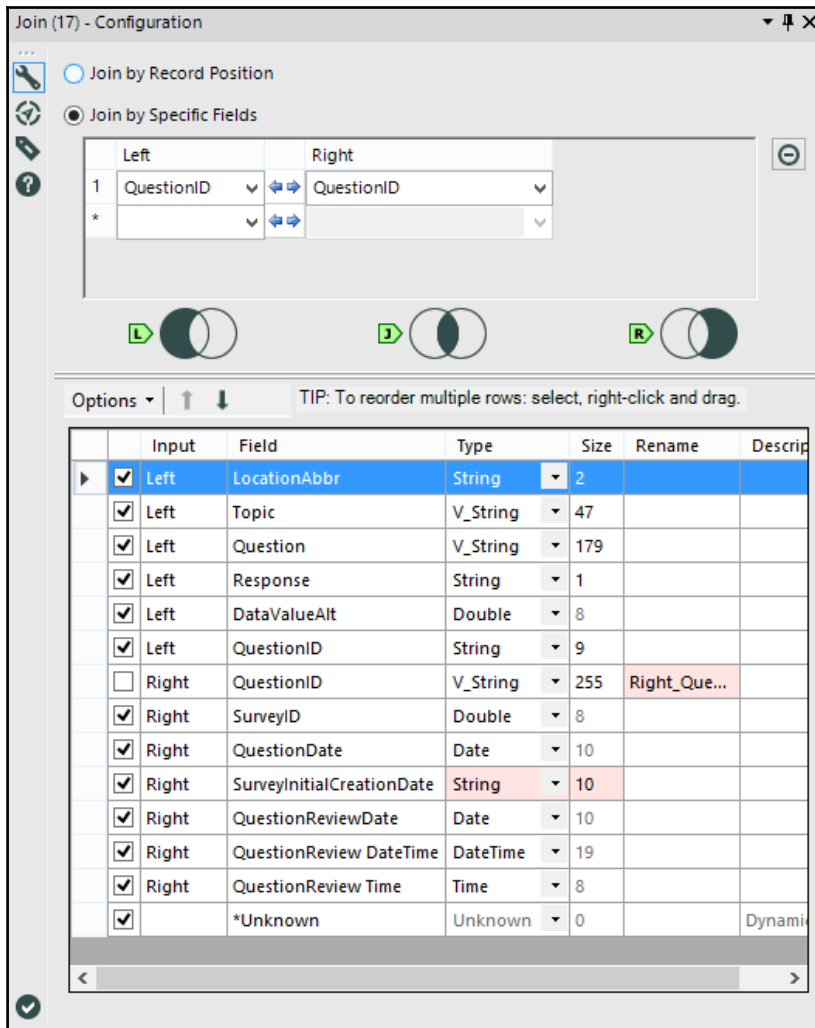
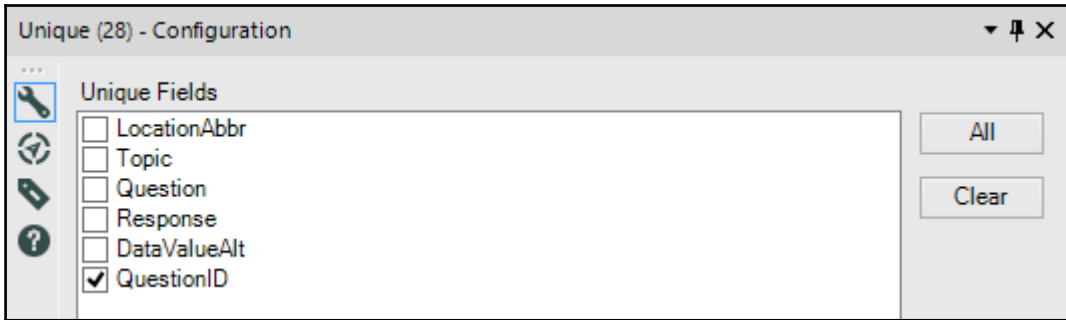


Select (29) - Configuration

Options | ↑ ↓ TIP: To reorder multiple rows: select, right-click

	Field	Type	Size	Rename
<input checked="" type="checkbox"/>	LocationAbbr	String	2	
<input checked="" type="checkbox"/>	Topic	V_String	47	
<input checked="" type="checkbox"/>	Question	V_String	179	
<input checked="" type="checkbox"/>	Response	String	1	
<input type="checkbox"/>	DataValueUnit	V_String	21	
<input type="checkbox"/>	DataValueType	V_String	64	
<input type="checkbox"/>	DataValue	V_String	95	
<input checked="" type="checkbox"/>	DataValueAlt	Double	8	
<input type="checkbox"/>	DataValueFootnoteSymbol	V_String	9	
<input type="checkbox"/>	DatavalueFootnote	V_String	254	
<input type="checkbox"/>	LowConfidenceLimit	Double	8	
<input type="checkbox"/>	HighConfidenceLimit	Double	8	
<input type="checkbox"/>	StratificationCategory1	String	14	
<input type="checkbox"/>	Stratification1	V_String	32	
<input type="checkbox"/>	StratificationCategory2	String	1	
<input type="checkbox"/>	Stratification2	String	1	
<input type="checkbox"/>	StratificationCategory3	String	1	
<input type="checkbox"/>	Stratification3	String	1	
<input type="checkbox"/>	GeoLocation	String	41	
<input type="checkbox"/>	ResponseID	String	1	
<input type="checkbox"/>	LocationID	Byte	1	
<input type="checkbox"/>	TopicID	String	4	
<input checked="" type="checkbox"/>	QuestionID	String	9	

Use commas as decimal separators (String/Numeric conversions only)



DateTime (19) - Configuration

Select the format to convert

Date/Time format to string

String to Date/Time format

Select the date/time field to convert

QuestionDate

Specify the new column name

QuestionDate_New

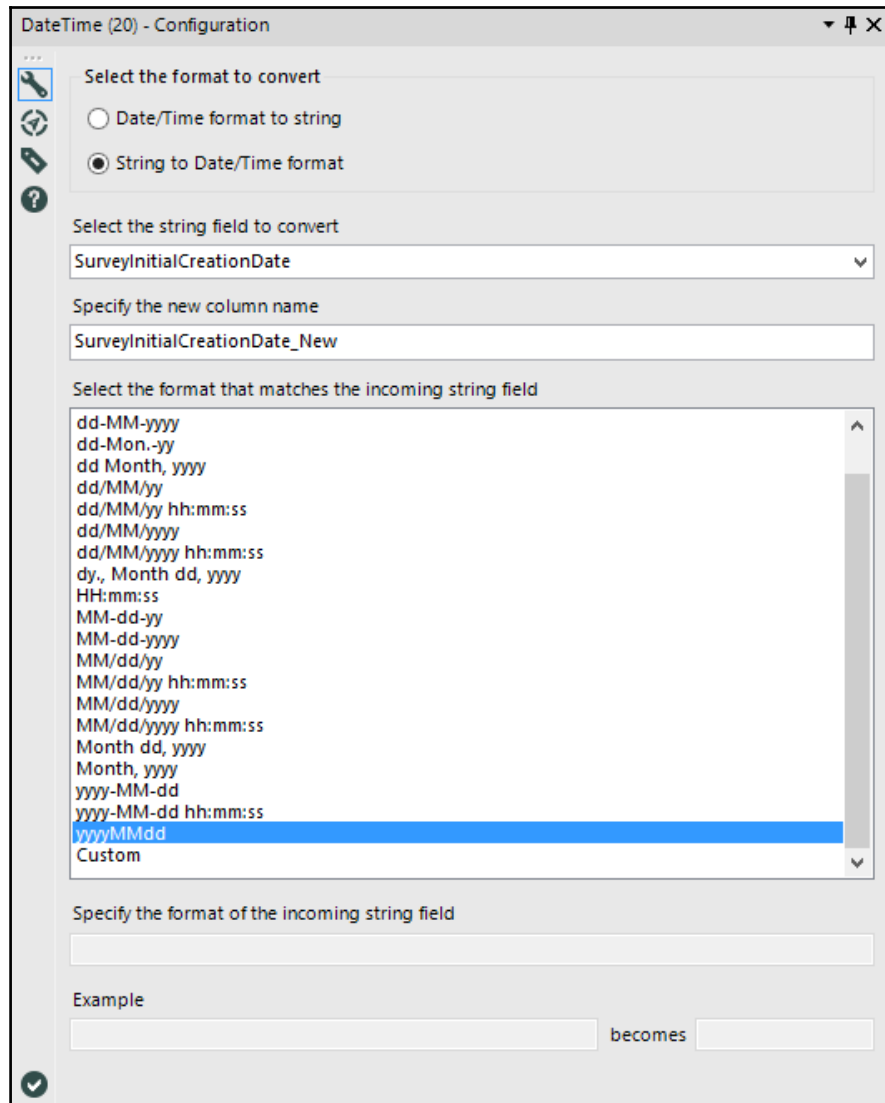
Select the format for the new column

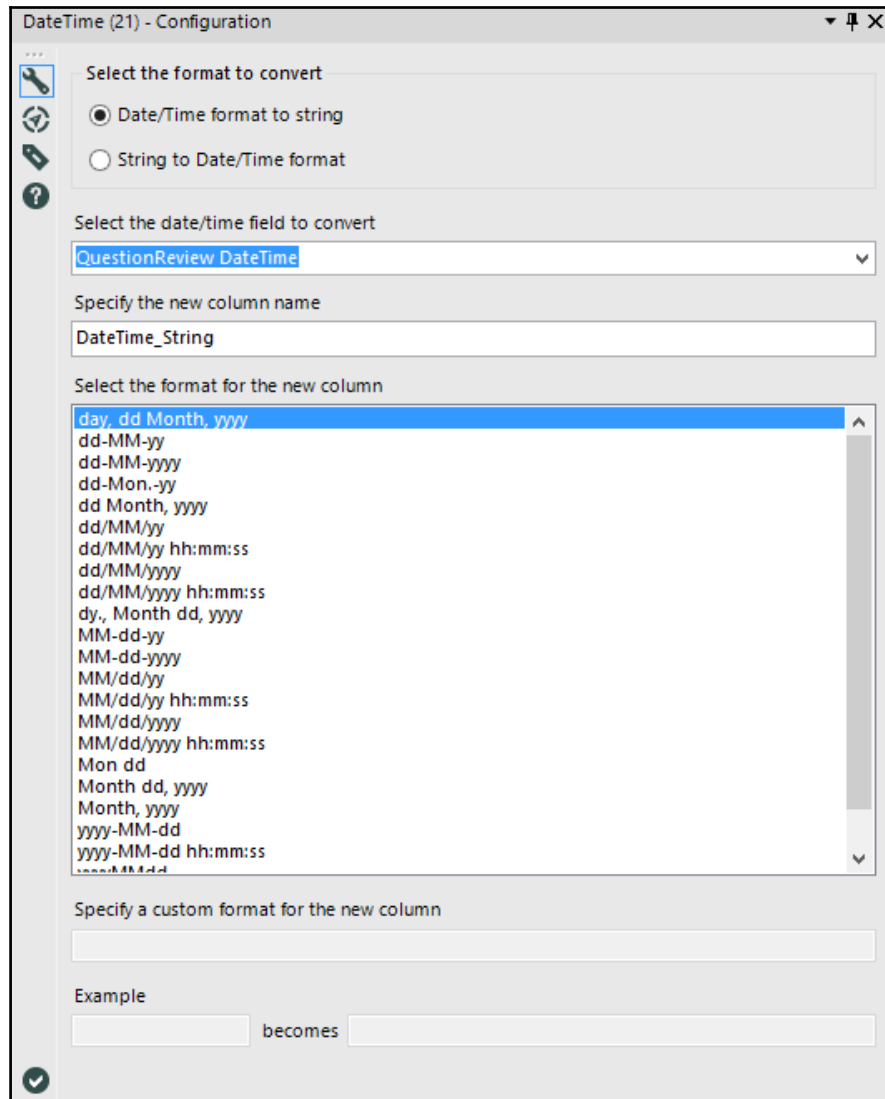
- day, dd Month, yyyy
- dd-MM-yy
- dd-MM-yyyy
- dd-Mon.-yy
- dd Month, yyyy
- dd/MM/yy
- dd/MM/yyyy
- dy., Month dd, yyyy
- MM-dd-yy
- MM-dd-yyyy
- MM/dd/yy
- MM/dd/yyyy**
- Mon dd
- Month dd, yyyy
- Month, yyyy
- yyyy-MM-dd
- yyyyMMdd
- Custom

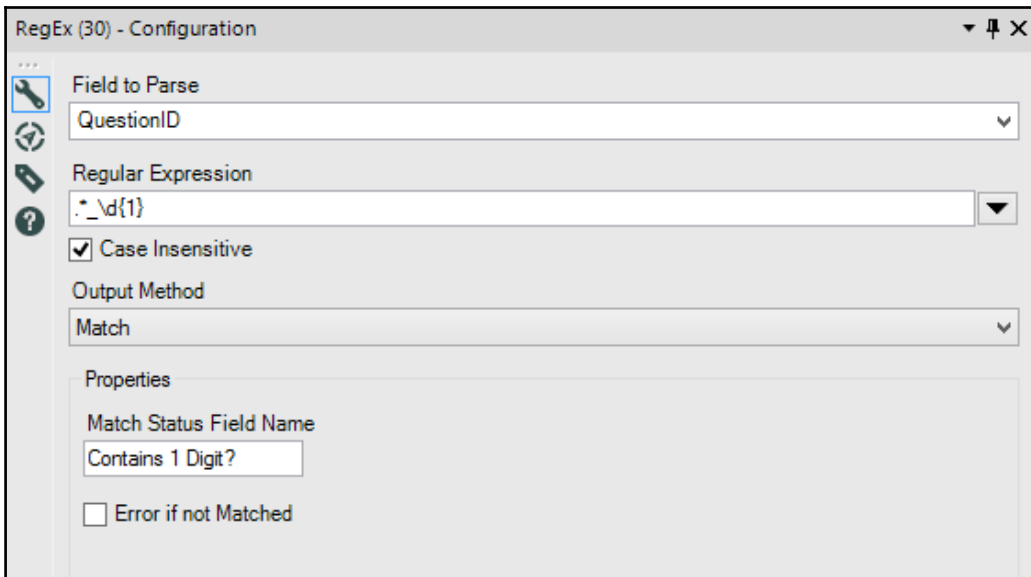
Specify a custom format for the new column

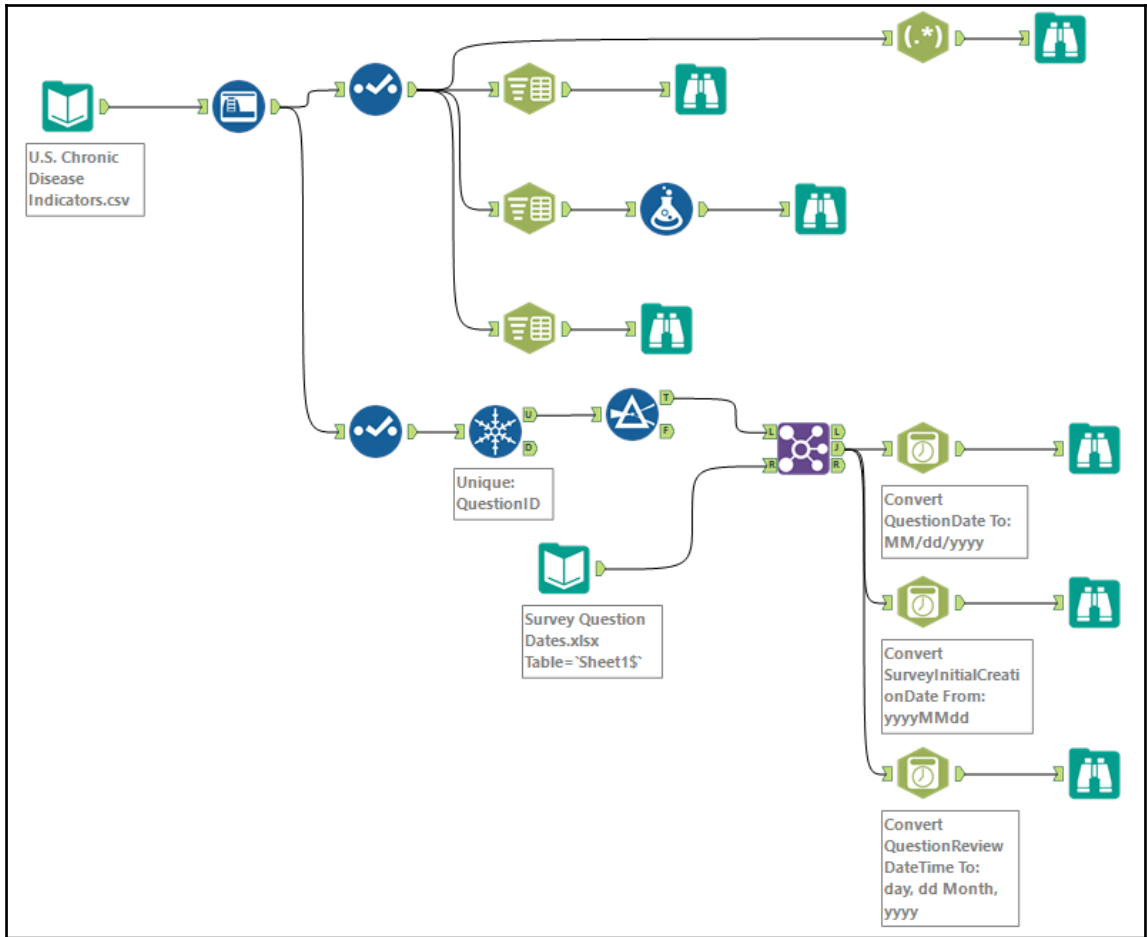
Example

becomes

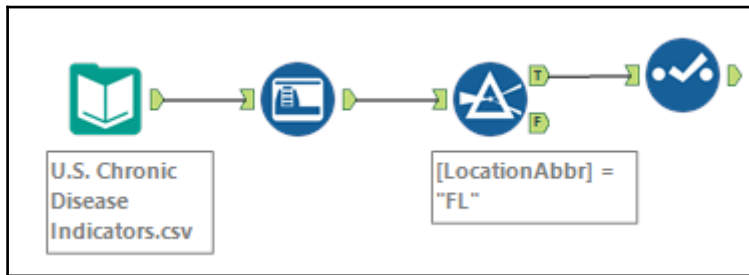
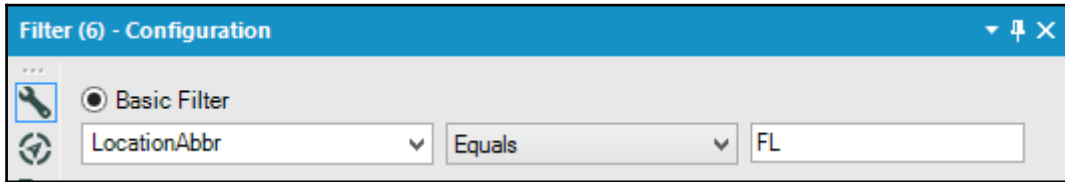








Chapter 7: Creating Data-Driven Custom Reports



Summarize (3) - Configuration

Fields: Select

Field	Type
YearEnd	Int16
LocationAbbr	String
Topic	V_String
Question	V_String
DataValueAlt	Double
QuestionID	String

Actions: Add

Field	Action	Output Field Name
LocationAbbr	GroupBy	Location
Topic	GroupBy	Topic
DataValueAlt	AvgNo0	Average Data Value
QuestionID	CountDistinct	Distinct Count of QuestionID

Table (7) - Configuration

Table Mode Basic Pivot (CrossTab)

Group By

- Location
- Topic
- Average Data Value
- Distinct Count of QuestionID

All

Clear

Table Configuration

Table Width 100 %

Pivot Style

Bar Graph Settings...

Show Column Headings

Per Column Configuration

Location

Topic

Average Data Value

Distinct Count of QuestionID

Dynamic or Unknown Fields

Rename Field

Width

Alignment (H)

Borders

Prefix

Suffix

Dec. Places

Column Rules

Default Table Settings...

Create Row Rule...

Browse (8) - Configuration

1 record displayed, 1 field, , 2499 bytes

Report

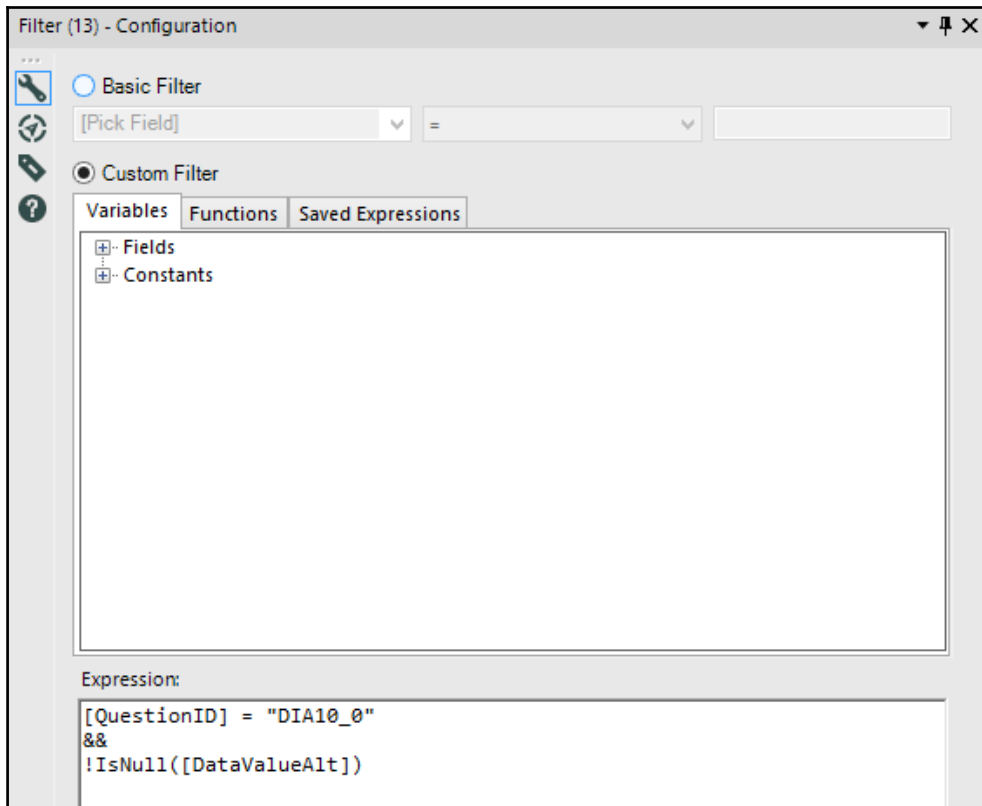
1 of 1 Fields

Records 1 to 1

Record Table

1

Location	Topic	Average Data Value	Distinct Count of QuestionID
FL	Alcohol	108	16
FL	Arthritis	34	8
FL	Asthma	1,911	9
FL	Cancer	1,588	20
FL	Cardiovascular Disease	2,813	18
FL	Chronic Kidney Disease	1,360	4
FL	Chronic Obstructive Pulmonary Disease	7,112	16
FL	Diabetes	3,581	20
FL	Disability	33	1
FL	Immunization	28	1
FL	Mental Health	7	3
FL	Nutrition, Physical Activity, and Weight Status	34	37
FL	Older Adults	575	4
FL	Oral Health	45	9
FL	Overarching Conditions	1,125	16
FL	Reproductive Health	66	3
FL	Tobacco	32	16



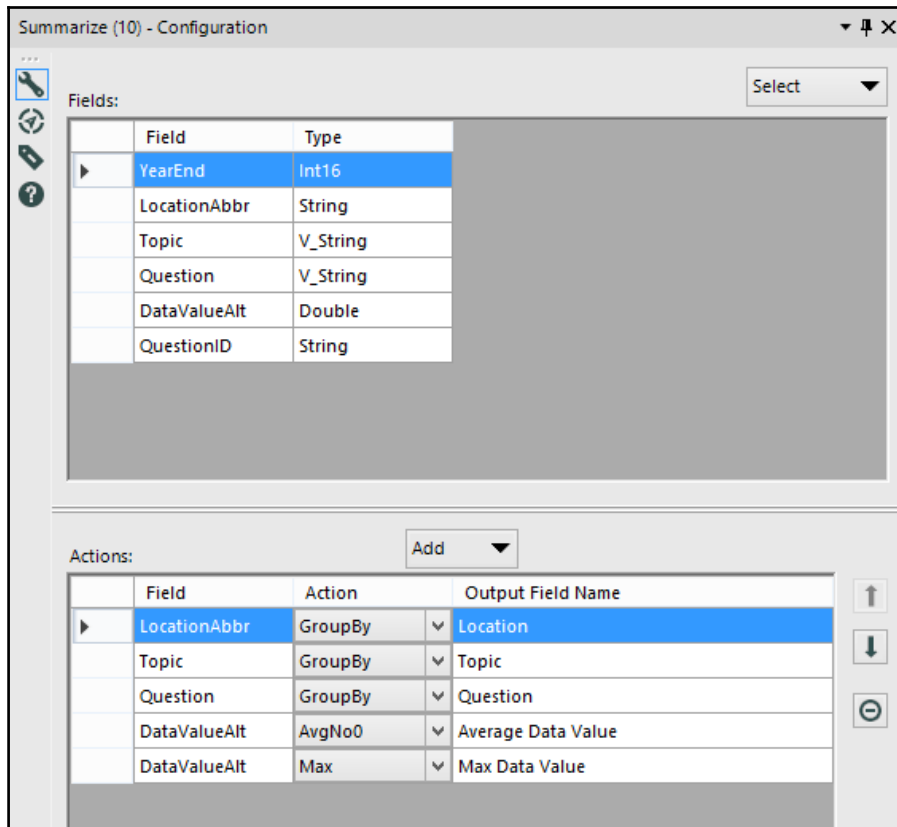


Table (11) - Configuration

Table Mode Basic Pivot (CrossTab)

Group By

- Location
- Topic
- Question
- Average Data Value
- Max Data Value

All

Clear

Table Configuration

Table Width %

Pivot Style

Bar Graph Settings...

Show Column Headings

Per Column Configuration

Location

Topic

Question

Average Data Value

Max Data Value

Dynamic or Unknown Fields

Rename Field

Width

Alignment (H)

Borders

Prefix

Suffix

Dec. Places

Column Rules

Default Table Settings...

Create Row Rule...

Browse (12) - Configuration

1 record displayed, 1 field, 3316 bytes

Report

1 of 1 Fields

Records 1 to 1

Record Table

1	Location	Topic	Question	Average Data Value	Max Data Value
	AK	Diabetes	Adults with diagnosed diabetes aged >= 18 years who have taken a diabetes self-management course	61	78
	AL	Diabetes	Adults with diagnosed diabetes aged >= 18 years who have taken a diabetes self-management course	56	72
	AR	Diabetes	Adults with diagnosed diabetes aged >= 18 years who have taken a diabetes self-management course	50	57
	AZ	Diabetes	Adults with diagnosed diabetes aged >= 18 years who have taken a diabetes self-management course	54	71
	CA	Diabetes	Adults with diagnosed diabetes aged >= 18 years who have taken a diabetes self-management course	62	70
	CO	Diabetes	Adults with diagnosed diabetes aged >= 18 years who have taken a diabetes self-management course	58	73
	CT	Diabetes	Adults with diagnosed diabetes aged >= 18 years who have taken a diabetes self-management course	47	73
	DC	Diabetes	Adults with diagnosed diabetes aged >= 18 years who have taken a diabetes self-management course	55	68
	DE	Diabetes	Adults with diagnosed diabetes aged >= 18 years who have taken a diabetes self-management course	51	73
	FL	Diabetes	Adults with diagnosed diabetes aged >= 18 years who have taken a diabetes self-management course	50	70
	GA	Diabetes	Adults with diagnosed diabetes aged >= 18 years who have taken a diabetes self-management course	56	77
	GU	Diabetes	Adults with diagnosed diabetes aged >= 18	42	62

Summarize (15) - Configuration

Fields: Select

	Field	Type
▶	YearEnd	Int16
	LocationAbbr	String
	Topic	V_String
	Question	V_String
	DataValueAlt	Double
	QuestionID	String

Actions: Add

	Field	Action	Output Field Name
▶	LocationAbbr	GroupBy	Location
	Topic	GroupBy	Topic
	Question	GroupBy	Question
	DataValueAlt	AvgNo0	Average Data Value
	DataValueAlt	Min	Min Data Value
	DataValueAlt	Max	Max Data Value

Table (16) - Configuration

Table Mode Basic Pivot (CrossTab)

Group By

- Location
- Topic
- Question
- Average Data Value
- Min Data Value
- Max Data Value

All Clear

Table Configuration

Table Width Percentage 100 %

Pivot Style Methodology over Variable

Bar Graph Average Data Value Settings...

Show Column Headings

Per Column Configuration

↑ ↓ ✓

Rename Field

Width Automatic

Alignment (H) Center

Borders None

Prefix

Suffix

Dec. Places 0

Column Rules Create...

- Location
- Topic
- Question
- Average Data Value
- Min Data Value
- Max Data Value
- Dynamic or Unknown Fields

Default Table Settings... Create Row Rule...

Browse (17) - Configuration

10,895 records displayed, 4 fields, 3.4 MB

Report

1 of 1 Fields

Records 1 to 10

Record Table

1	Location	Topic	Question	Average Data Value	Min Data Value	Max Data Value
	AK	Alcohol	Alcohol use among youth	22	22	23
2	Location	Topic	Question	Average Data Value	Min Data Value	Max Data Value
	AK	Alcohol	Alcohol use before pregnancy			
3	Location	Topic	Question	Average Data Value	Min Data Value	Max Data Value
	AK	Alcohol	Amount of alcohol excise tax by beverage type (beer)		1	1
4	Location	Topic	Question	Average Data Value	Min Data Value	Max Data Value
	AK	Alcohol	Amount of alcohol excise tax by beverage type (distilled spirits)		13	13
5	Location	Topic	Question	Average Data Value	Min Data Value	Max Data Value
	AK	Alcohol	Amount of alcohol excise tax by beverage type (wine)		3	3
6	Location	Topic	Question	Average Data Value	Min Data Value	Max Data Value
	AK	Alcohol	Binge drinking frequency among adults aged >= 18 years who binge drink		4	3

Filter (20) - Configuration

Basic Filter

YearEnd = 2015

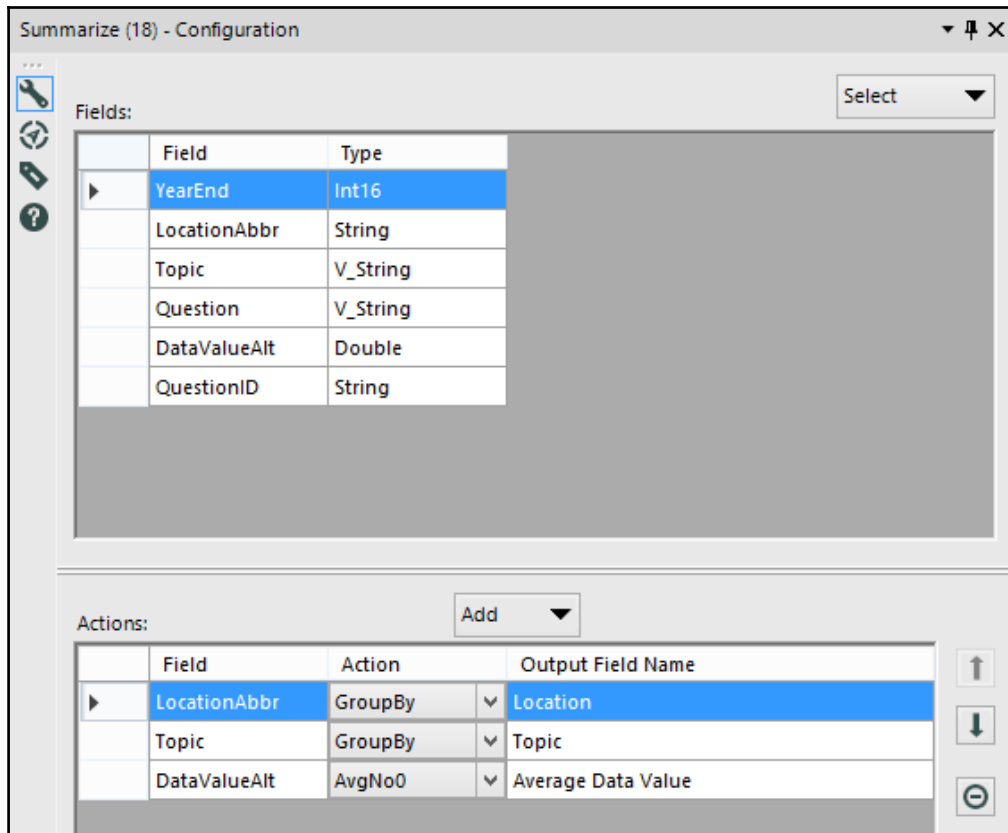


Table (21) - Configuration

Table Mode Basic Pivot (CrossTab)

Group By Location
 Topic
 Average Data Value

All
Clear

Table Configuration

Table Width %

Pivot Style

Bar Graph Settings...

Show Column Headings

Per Column Configuration

Location
 Topic
 Average Data Value
 Dynamic or Unknown Fields

Rename Field

Width

Alignment (H)

Borders

Prefix

Suffix

Dec. Places

Column Rules

Default Table Settings... Create Row Rule...

Browse (22) - Configuration

1 record displayed, 1 field, 15 KB

Report

1 of 1 Fields

Records 1 to 1

Record	Table	Location	Topic	0	100
1		AK	Alcohol	11	
		AK	Arthritis	30	
		AK	Asthma	43	
		AK	Cancer		
		AK	Cardiovascular Disease	50	
		AK	Chronic Kidney Disease	2	
		AK	Chronic Obstructive Pulmonary Disease	39	
		AK	Diabetes	45	
		AK	Immunization	35	
		AK	Mental Health	6	
		AK	Nutrition, Physical Activity, and Weight Status	35	
		AK	Oral Health	28	
		AK	Overarching Conditions	20	
		AK	Reproductive Health	54	
		AK	Tobacco	29	
		AL	Alcohol	8	
		AL	Arthritis	39	
		AL	Asthma	44	
		AL	Cancer	68	
		AL	Cardiovascular Disease	56	
		AL	Chronic Kidney Disease	3	
		AL	Chronic Obstructive Pulmonary Disease	43	
		AL	Diabetes	47	

Charting (25) - Configuration

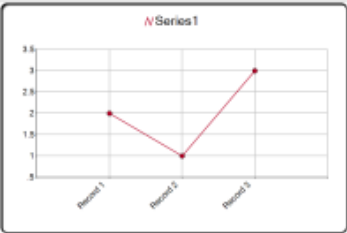
Chart Type:

Select Field(s) To Chart:

	Series 1	Series 2
Line	Average Data Value	[None]

Label Field:

Preview (Click to enlarge):



Setup Chart Appearance:

[Reset to Defaults](#)

- General
- Font Details
- Borders, Backgrounds
- Grouping
- Legend, Data Layout
- Vertical Axis
- Right Vertical Axis
- Horizontal Axis
- 1
- Watermark

3D Interior:

Width (inches):

Height (inches):

Resolution:

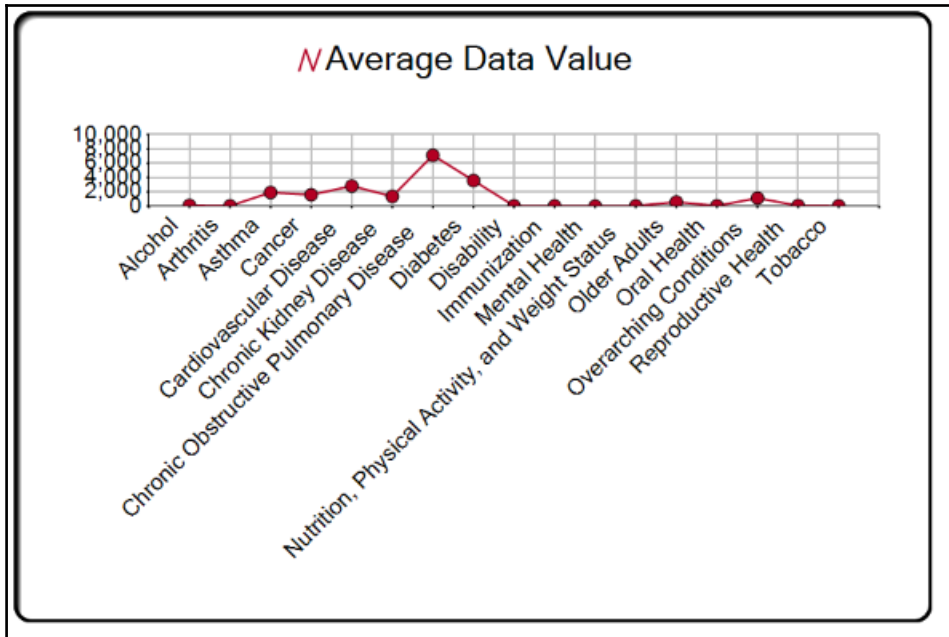
Title:

Title Size:

Subtitle:

Subtitle Size:

Primary Font: **B** *I*



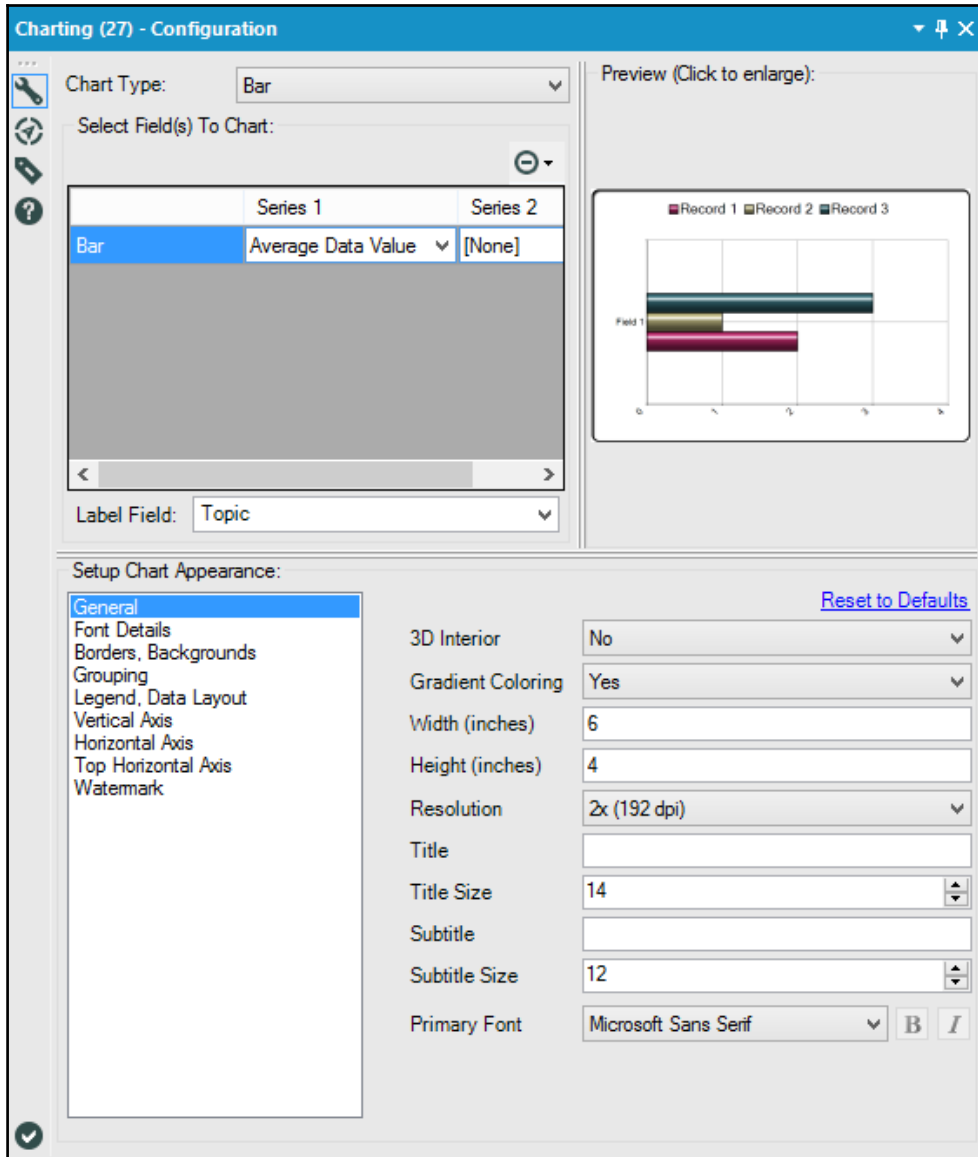
Sample (30) - Configuration

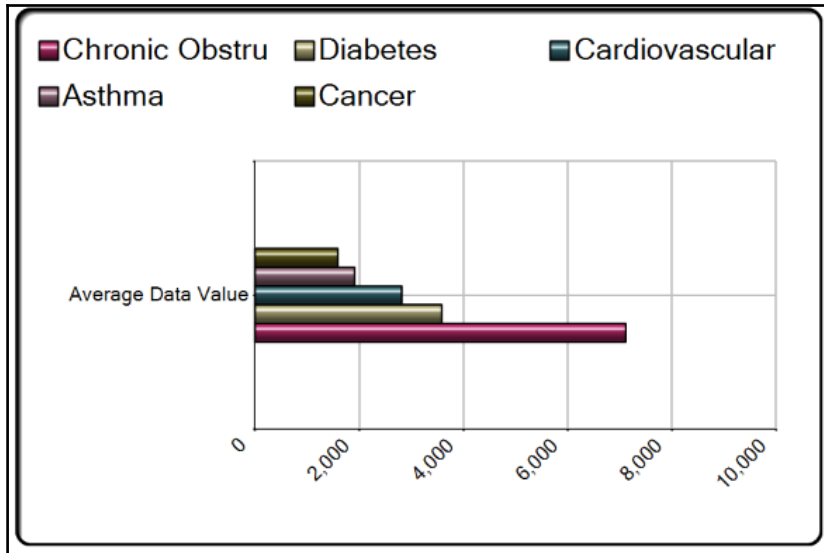
First N Records
 Last N Records
 Skip 1st N Records
 1 of every N Records
 Random 1 in N Chance for each Record
 First N% of Records

N =

Grouping Fields (Optional)

Location
 Topic
 Average Data Value
 Distinct Count of QuestionID





Report Header (31) - Configuration

Configuration

The Report Header macro will append the created header to your supplied data, this new field can then be used in a Render tool as the Header for your report.

Enter the report title:

Florida: Top 5 Chronic Diseases

Include the date in your report header.

Specify the date format:

Month dd, yyyy

Include an image (logo) on your header.

Use the Alteryx logo

Specify custom image:

Browse to the image to use in the report header:

The size of the Alteryx logo is 150 by 55 (W x H) pixels, if you use an image of a different size or ratio, you may encounter layout issues. You may need to resize your image outside of Alteryx.

Report Footer (33) - Configuration

Configuration

The Report Footer macro will append the created footer to your supplied data, this new field can then be used in a Render tool as a Footer for your report.

Copyright text:

Using the [CurrentYear] tag in the copyright text box will put the current year into your copyright.

Information text: (Will be shown on the bottom line of the footer, left aligned.)

This report was developed using Alteryx

Include page numbers. (Will be shown on the bottom line of the footer, right aligned.)

Layout (34) - Configuration

Layout Mode: Each Individual Record

Group By:

Include Source Fields in Output

Layout Configuration

Orientation: Vertical with Section Breaks

Layout Width: Percentage 100 %

Layout Height: Automatic

Border

Separator

Cell Padding: 0 pixels

Per Section Configuration

Header

Chart

Footer

Height: Automatic

Alignment (V): Top

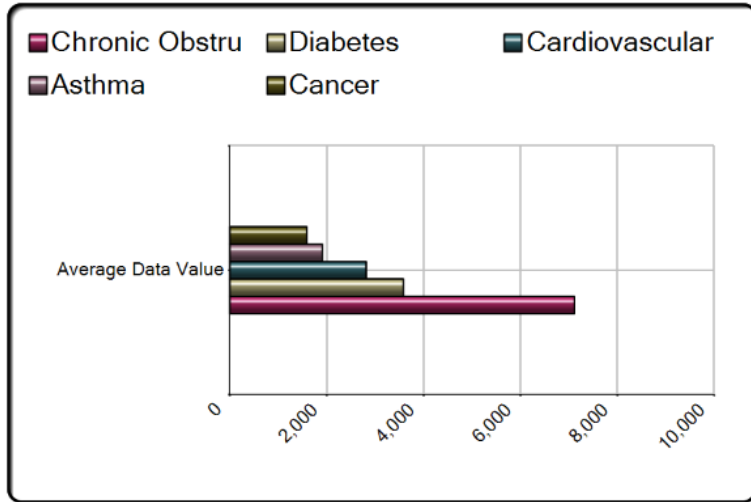
Alignment (H): Center

Fill Color

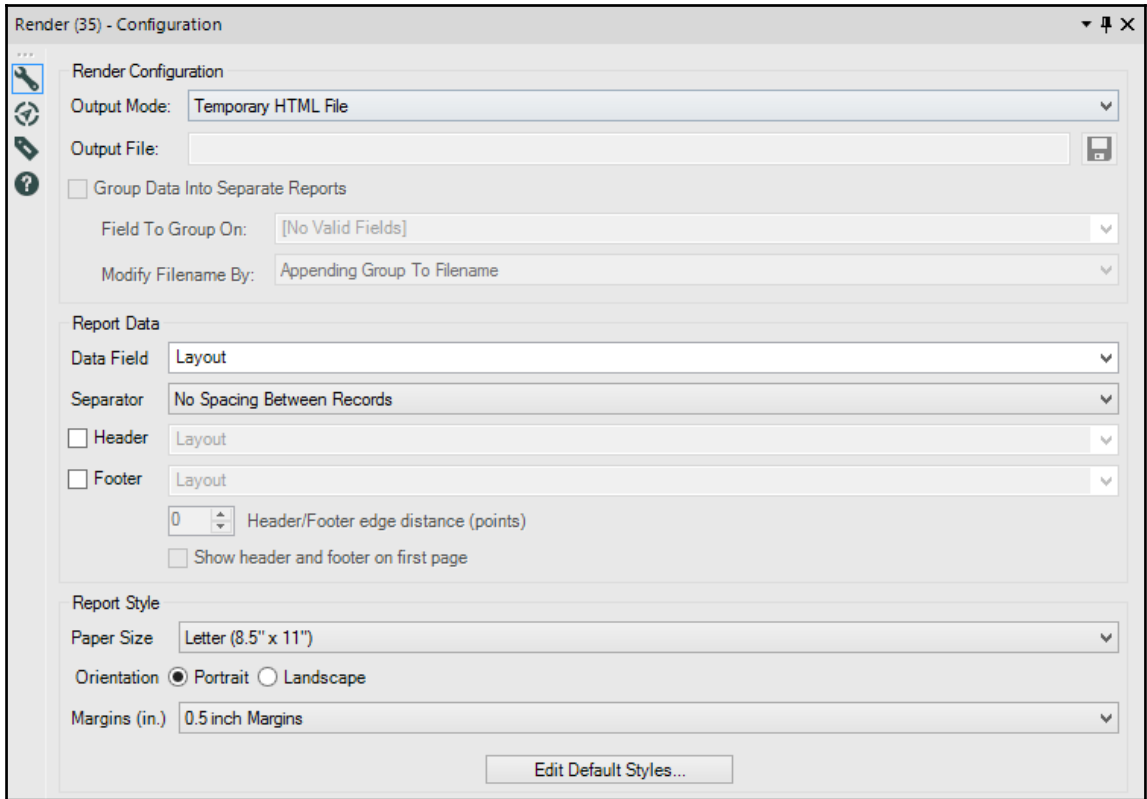
Section Name: Use Field

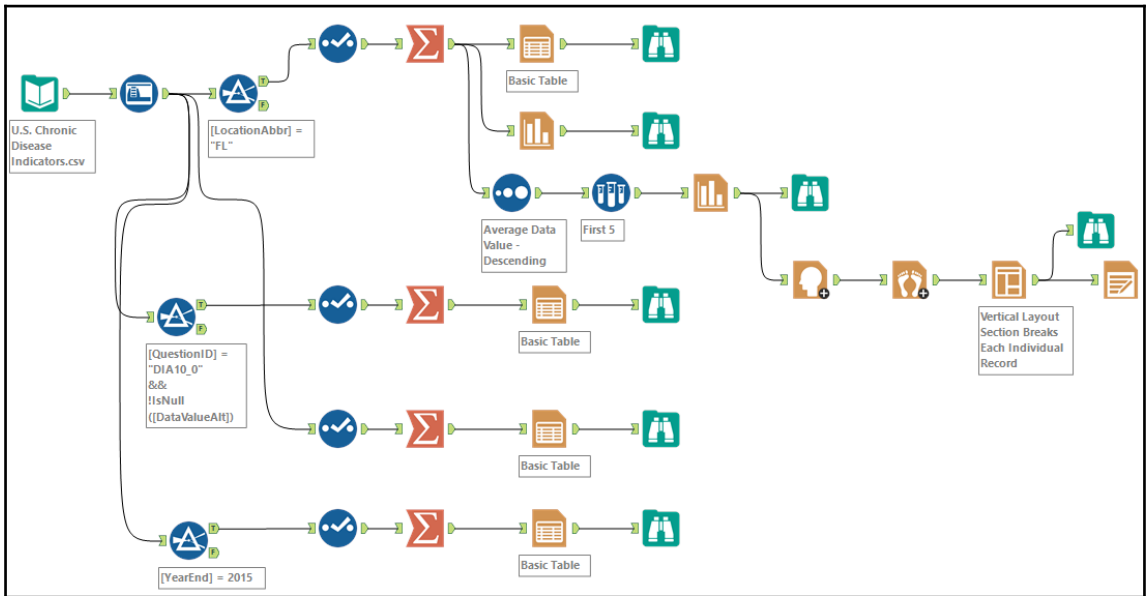
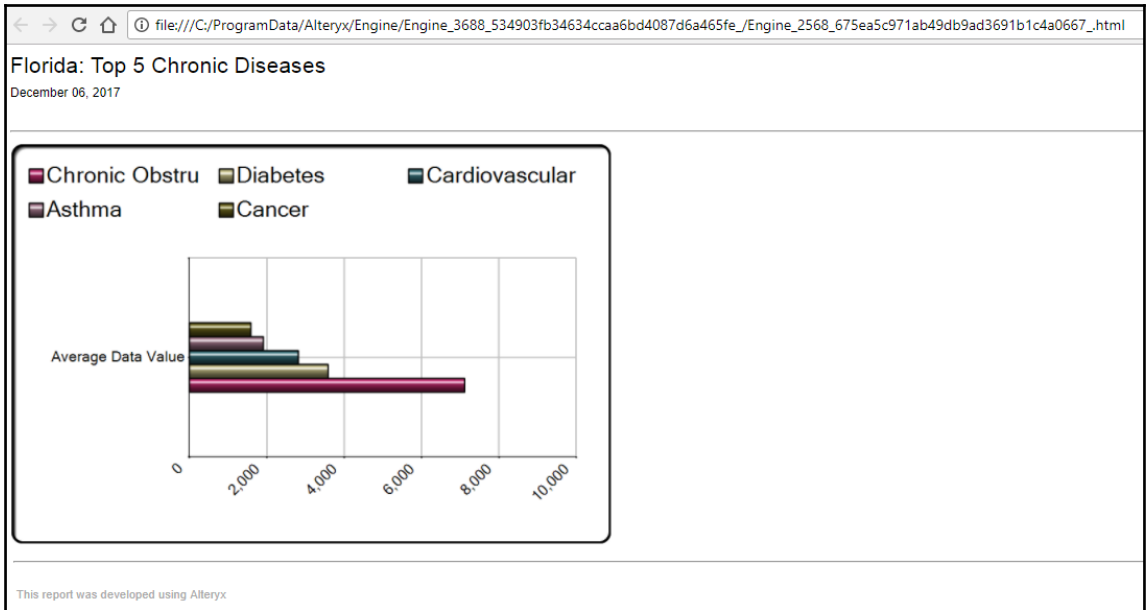
Florida: Top 5 Chronic Diseases

December 06, 2017

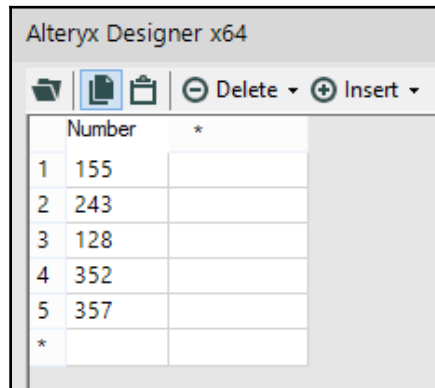
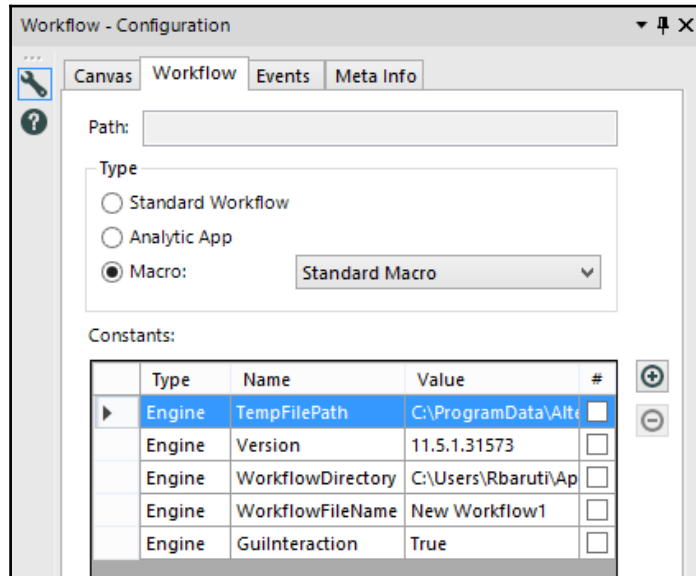


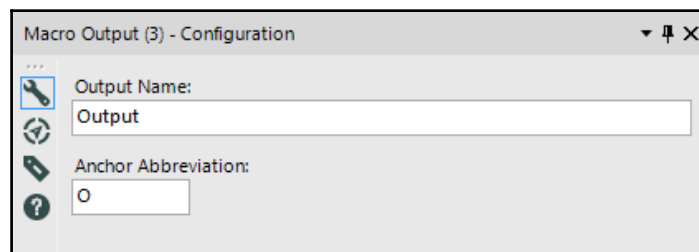
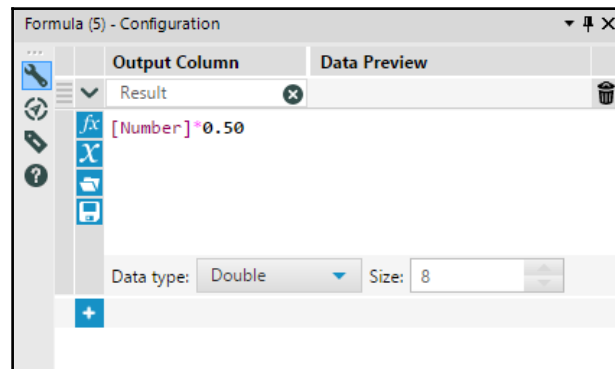
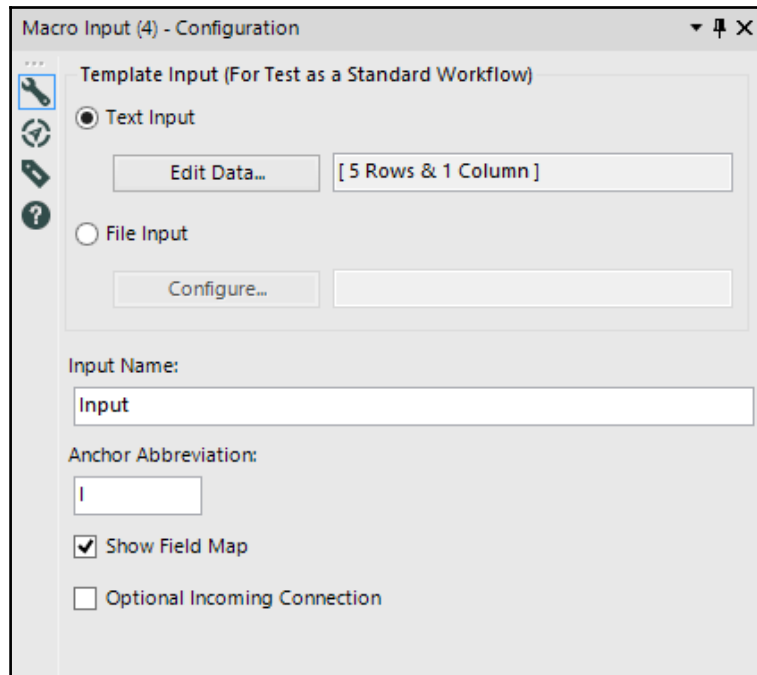
This report was developed using Alteryx

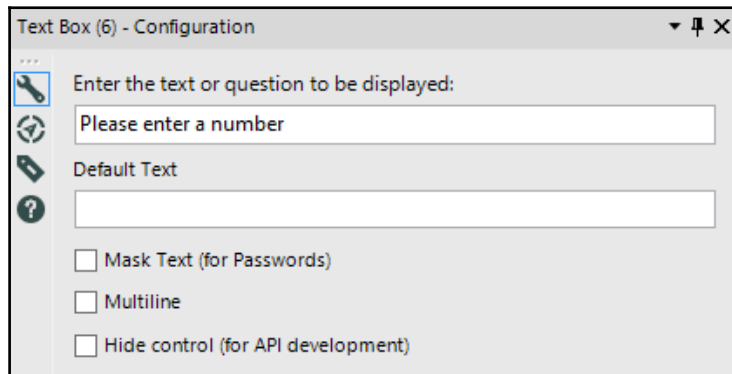
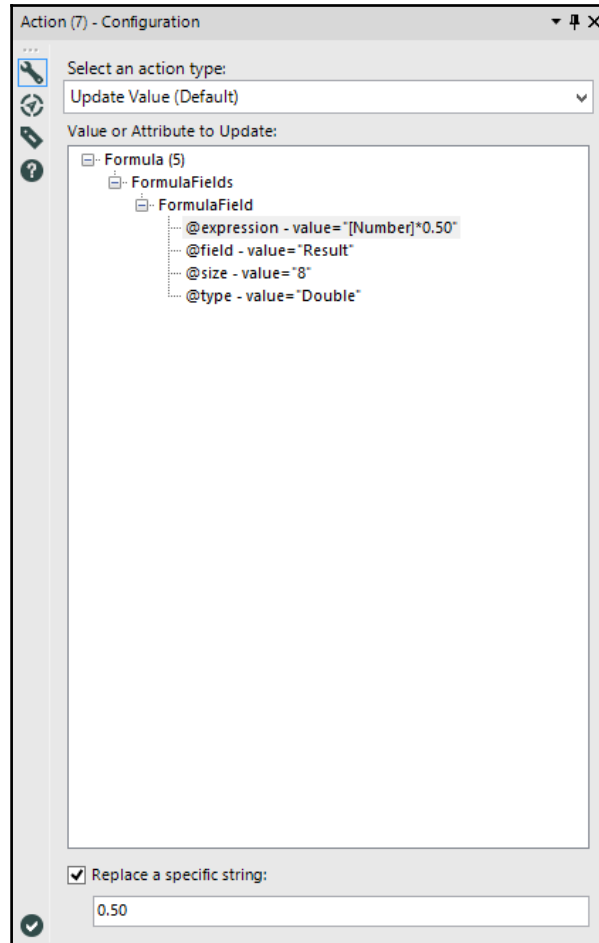


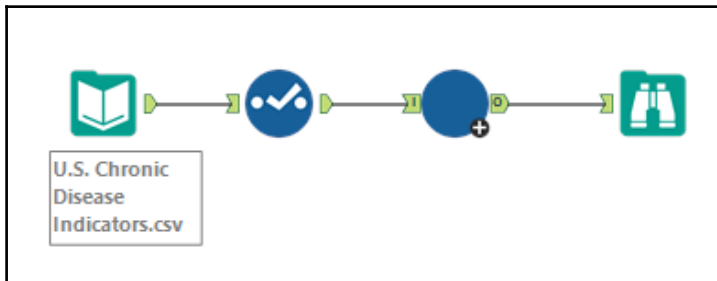
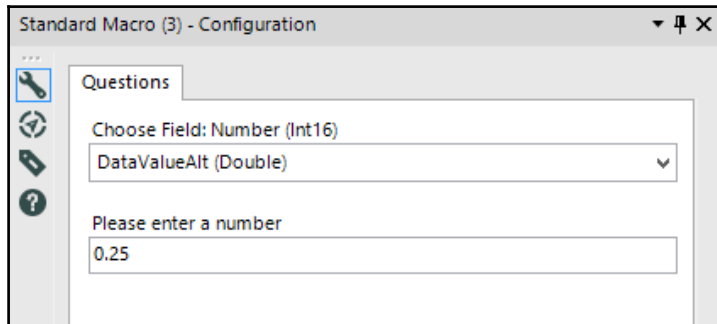
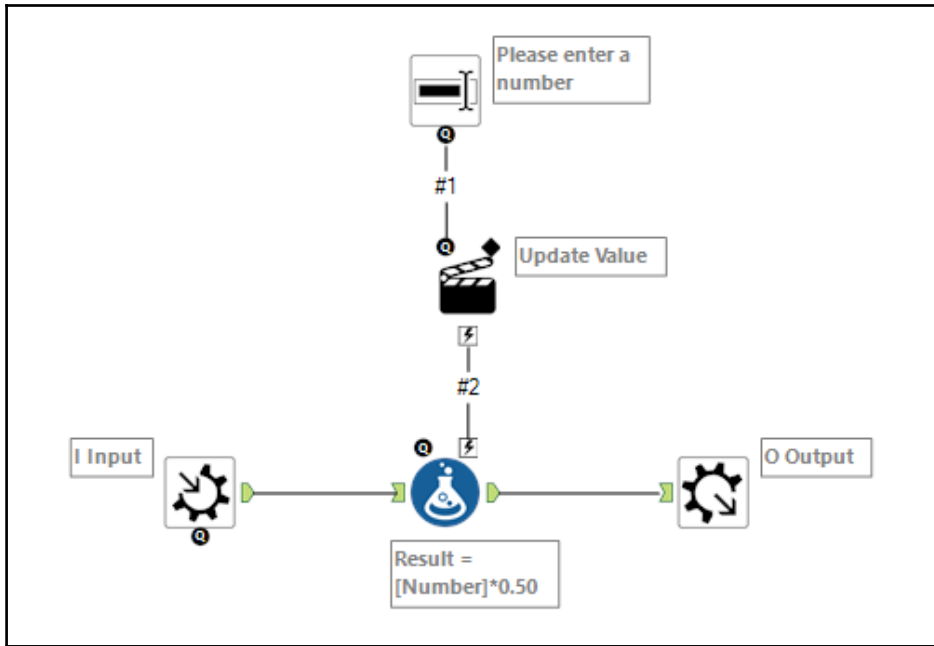


Chapter 8: Using Macros in Workflows









Alteryx Designer x64

🗑️ 📄 📁 ⌵ Delete ⌵ ⌕ Insert ⌵

	Number	*
1	155	
2	243	
3	128	
4	352	
5	357	
*		

Macro Input (4) - Configuration

⋮

🔑 Template Input (For Test as a Standard Workflow)

Text Input

Edit Data... [5 Rows & 1 Column]

File Input

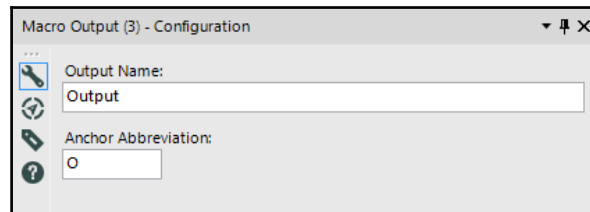
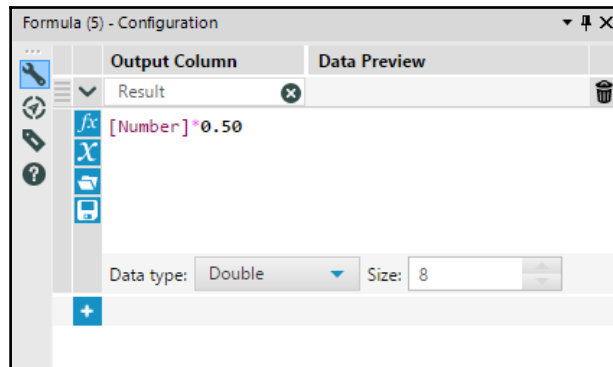
Configure...

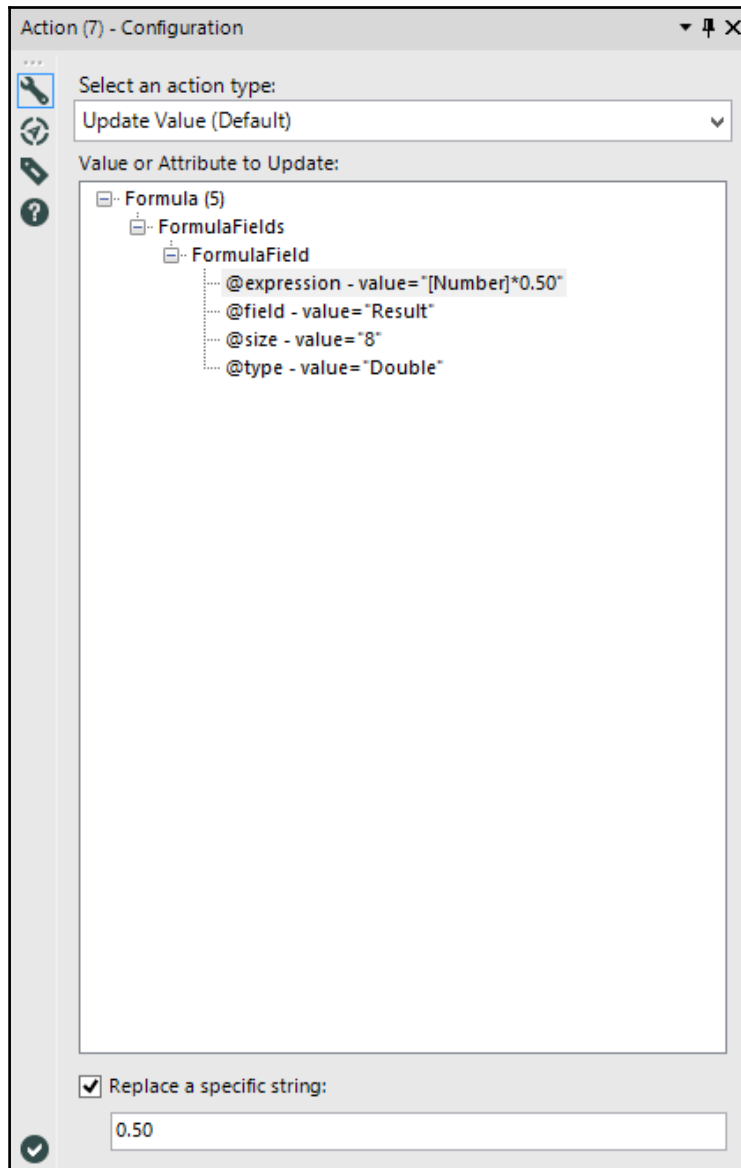
Input Name:
Input

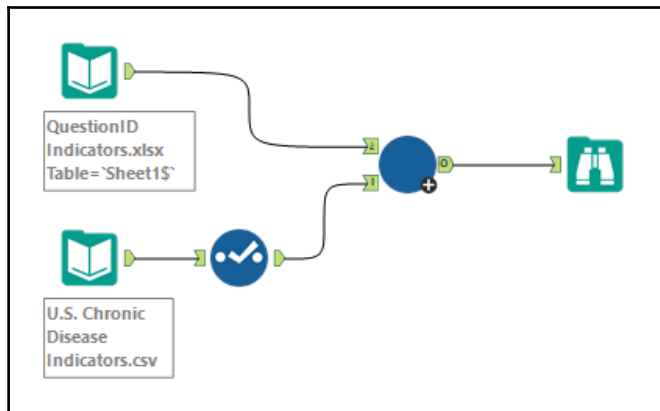
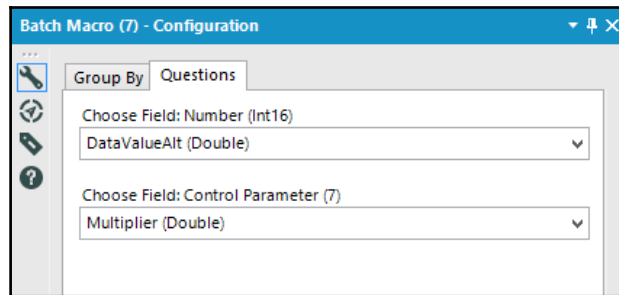
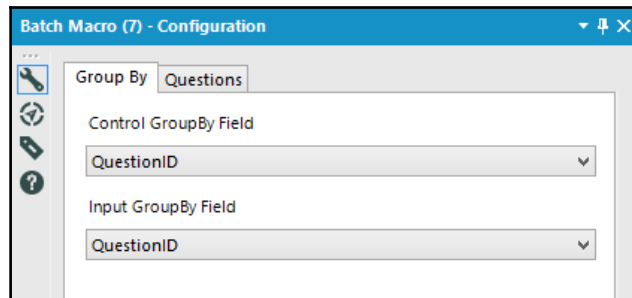
Anchor Abbreviation:
I

Show Field Map

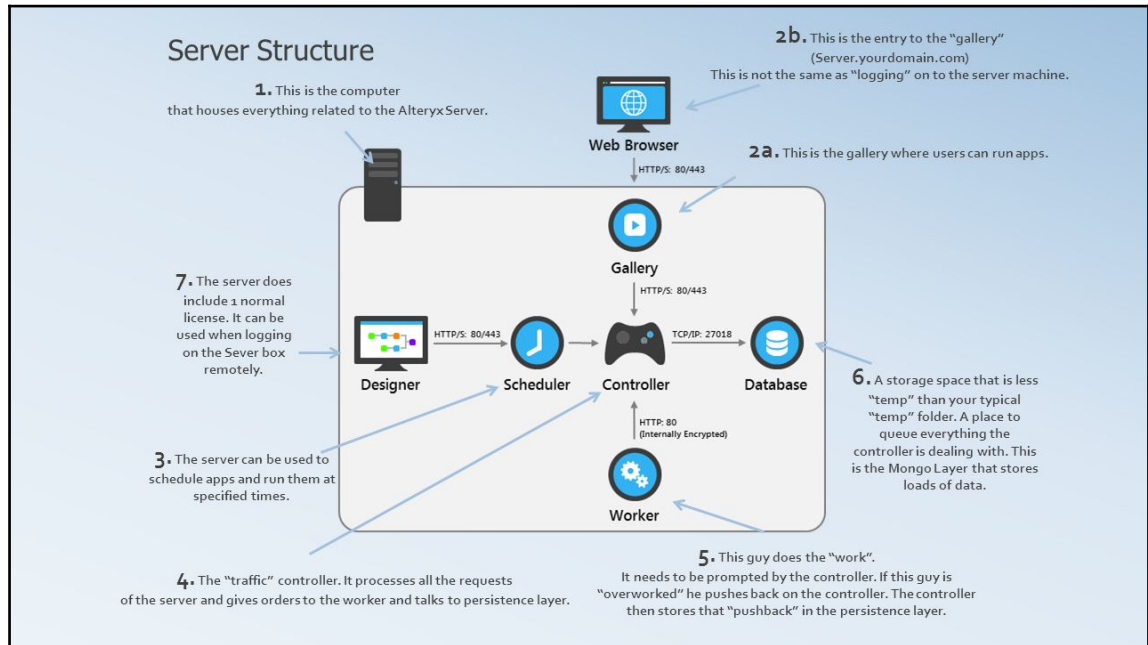
Optional Incoming Connection



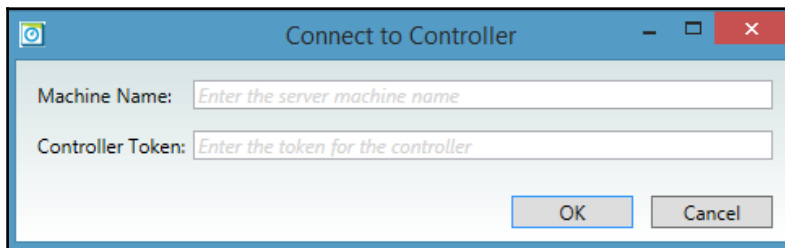
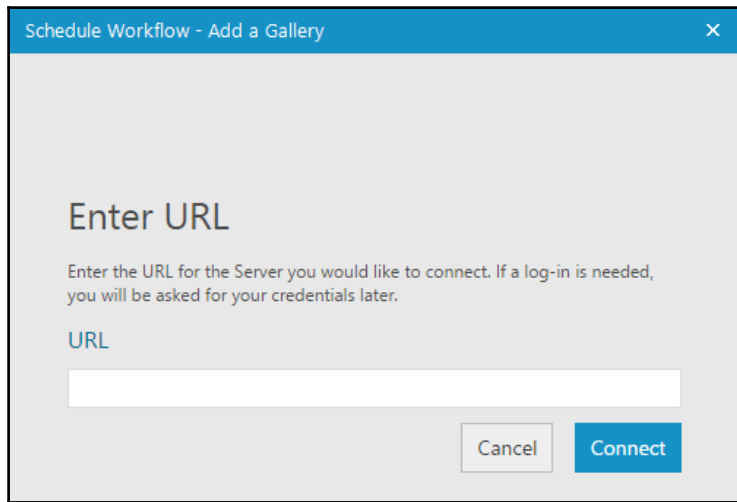
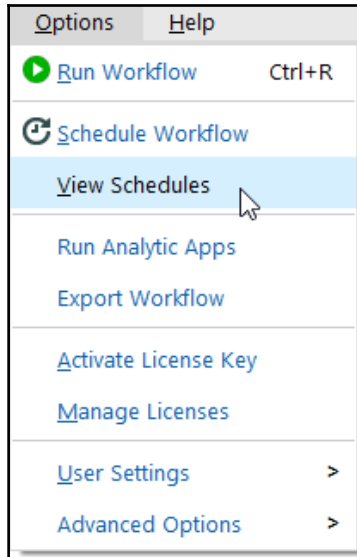




Chapter 9: Sharing Your Insights



	Worker	Gallery	Database
Redundancy needed	✓	✓	✓
High availability needed	✓	✓	✓
Workflow execution time increases	✓		
Number of simultaneous users increases	✓	✓	
Number of backend jobs increases	✓		
Workflows sit in queue for long periods of time	✓		
Memory or CPU consumption is high on web nodes		✓	



alteryx | ANALYTICS GALLERY

Schedules

Schedule/Workflow	Frequency	Schedule Created	State	Last Run	Next Run	Times Run	
Financials	Recurring, at 2:00 PM on Mon	Friday 01/27/17 11:16AM	Active	Never	Monday 01/30/17 2:00PM	0	
Daily Quota Reporting Quota	Recurring, at 6:00 PM on Sun-Sat	Friday 01/27/17 11:14AM	Active	Never	Friday 01/27/17 6:00PM	0	
KPI Reporting Operations Metrics	Recurring, at 12:00 PM on 1st day of every month	Friday 01/27/17 11:13AM	Active	Never	Wednesday 02/01/17 12:00PM	0	
The Scheduled Report for Mary Reporting	Once, at 11:30 AM on Fri, Jan 27	Friday 01/27/17 11:09AM	Completed	Friday 01/27/17 11:10AM	Never	1	
Quarterly Revenue Revenue by Vertical	Custom, at 12:00 AM on 1st days of Jan, Apr, Jul, Oct	Friday 01/27/17 11:07AM	Active	Never	Saturday 04/01/17 12:00AM	0	
Scheduled Transactions Real Estate Transactions	Recurring, at 9:00 AM on Mon-Fri	Friday 01/27/17 11:06AM	Active	Never	Monday 01/30/17 9:00AM	0	
Analysis	Recurring, every 1 hours	Friday 01/27/17 11:05AM	Active	Friday 01/27/17 11:05AM	Friday 01/27/17 12:05PM	1	
Real Time Data Industry Data	Recurring, every 1 minutes	Friday 01/27/17 11:05AM	Active	Friday 01/27/17 11:17AM	Friday 01/27/17 11:17AM	3	

alteryx | GALLERY ADMIN

Permissions

Default Permission: **Viewer**

Type	Display Name
Artisan	Gary Sch
Artisan	Heather

Add Permission

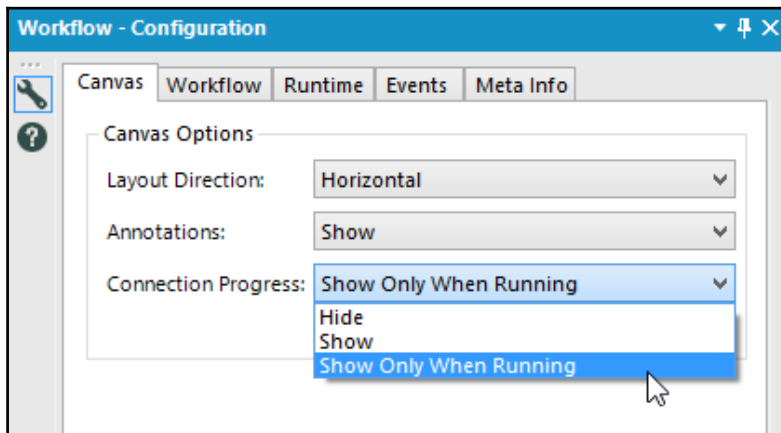
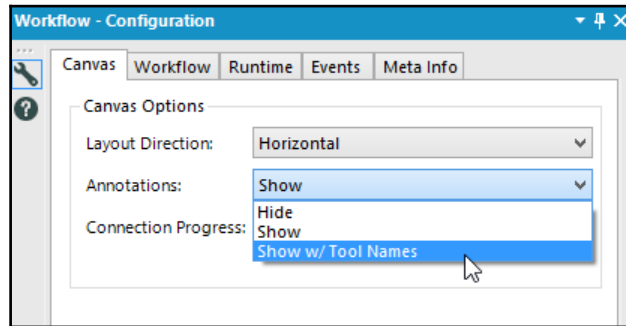
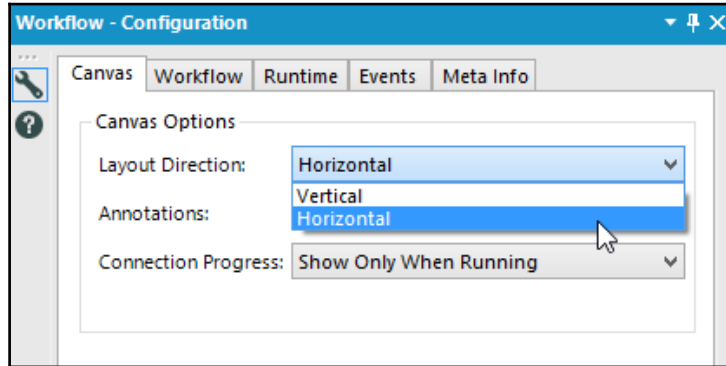
Select a permission type.

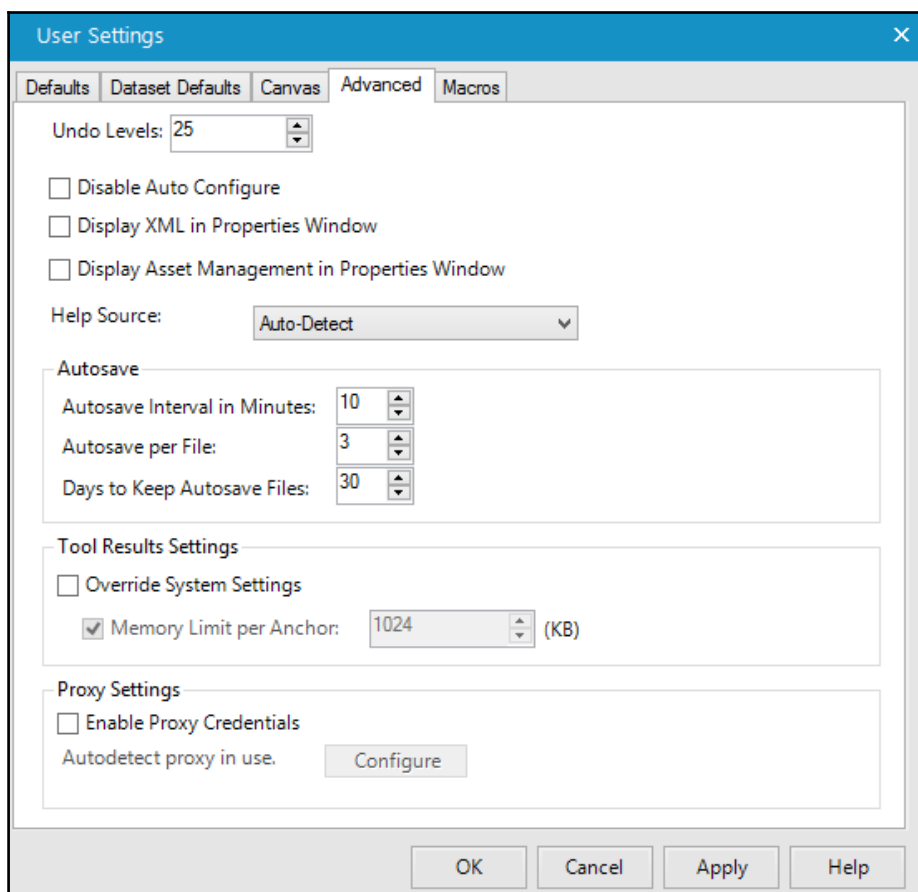
- No Access
- Viewer
- Artisan
- Curator

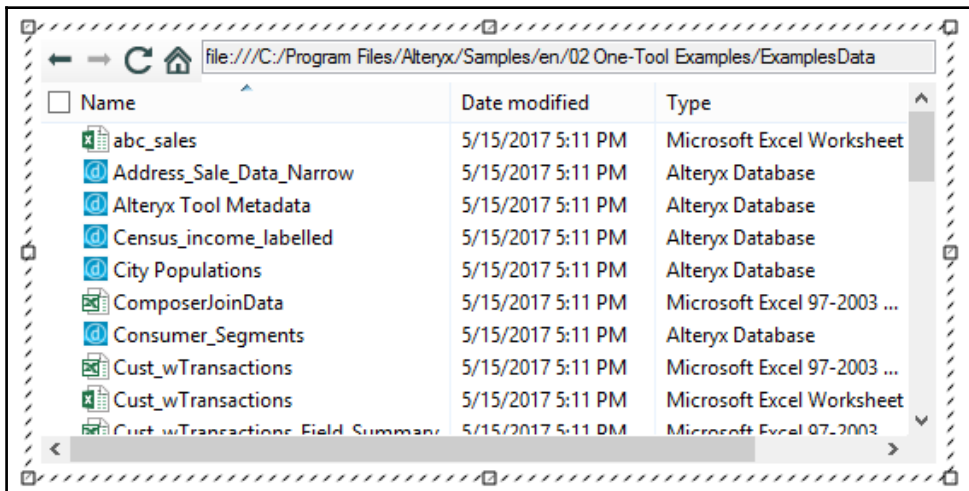
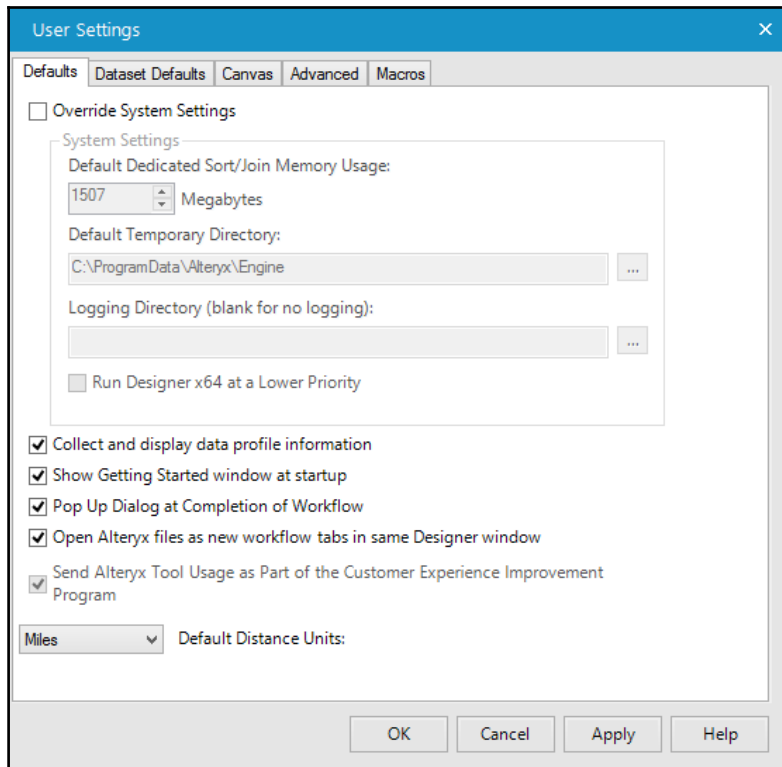
Cancel **OK**

The screenshot displays the Alteryx Analytics Gallery website. At the top left is the Alteryx logo and 'ANALYTICS GALLERY'. The top right contains links for 'DOWNLOAD ALTERYX DESIGNER', 'COMMUNITY', 'INSPIRE 2017', and a 'SIGN IN' button. A search bar is located below the header. A dark blue sidebar on the left contains navigation icons for 'HOME', 'DISTRICTS', 'PRIVATE STUDIO', 'STUDIOS', and 'COLLECTIONS'. The main content area features a blue banner with three sections: 'TRY APPS' (Browse analytic apps created by data analysts that solve a specific business problem.), 'BUILD APPS' (Create a new analytic workflow using Alteryx Designer. Download a free trial now!), and 'SHARE APPS' (Publish your analytic workflows as apps and share them with business decision makers.). Below the banner is a section titled 'Most Popular + Latest Workflows' with a 'Latest' dropdown menu and a 'Filter workflows' search box. A grid of workflow cards is displayed, including 'ACON Imports with debt recourse' (two instances), 'Excel2DBF converter', 'Shippo Address Validation', 'Webpage Download and API Calls', 'Alteryx ROI Calculator', 'Bing Maps Geocode' (two instances), and 'Webpage Download and API Calls'. Each card shows a small icon, the workflow name, and the creator's name and role (e.g., 'Boris Lau', 'Analytic App'). At the bottom left of the grid is a 'LOOKING FOR MORE?' link.

Chapter 10: Best Practices







Results - Browse (2) - Input

4 of 35 Fields Data Metadata

- YearStart
- YearEnd
- LocationAbbr
- LocationDesc
- DataSource
- Topic
- Question
- Response
- DataValueUnit

Record #	YearStart	YearEnd	LocationAbbr	LocationDesc
1	2015	2015	AK	Alaska
2	2015	2015	AL	Alabama
3	2015	2015	AR	Arkansas
4	2015	2015	AZ	Arizona
5	2015	2015	CA	California

