

Workshop - Introduction

- Alteryx – Data Preparation

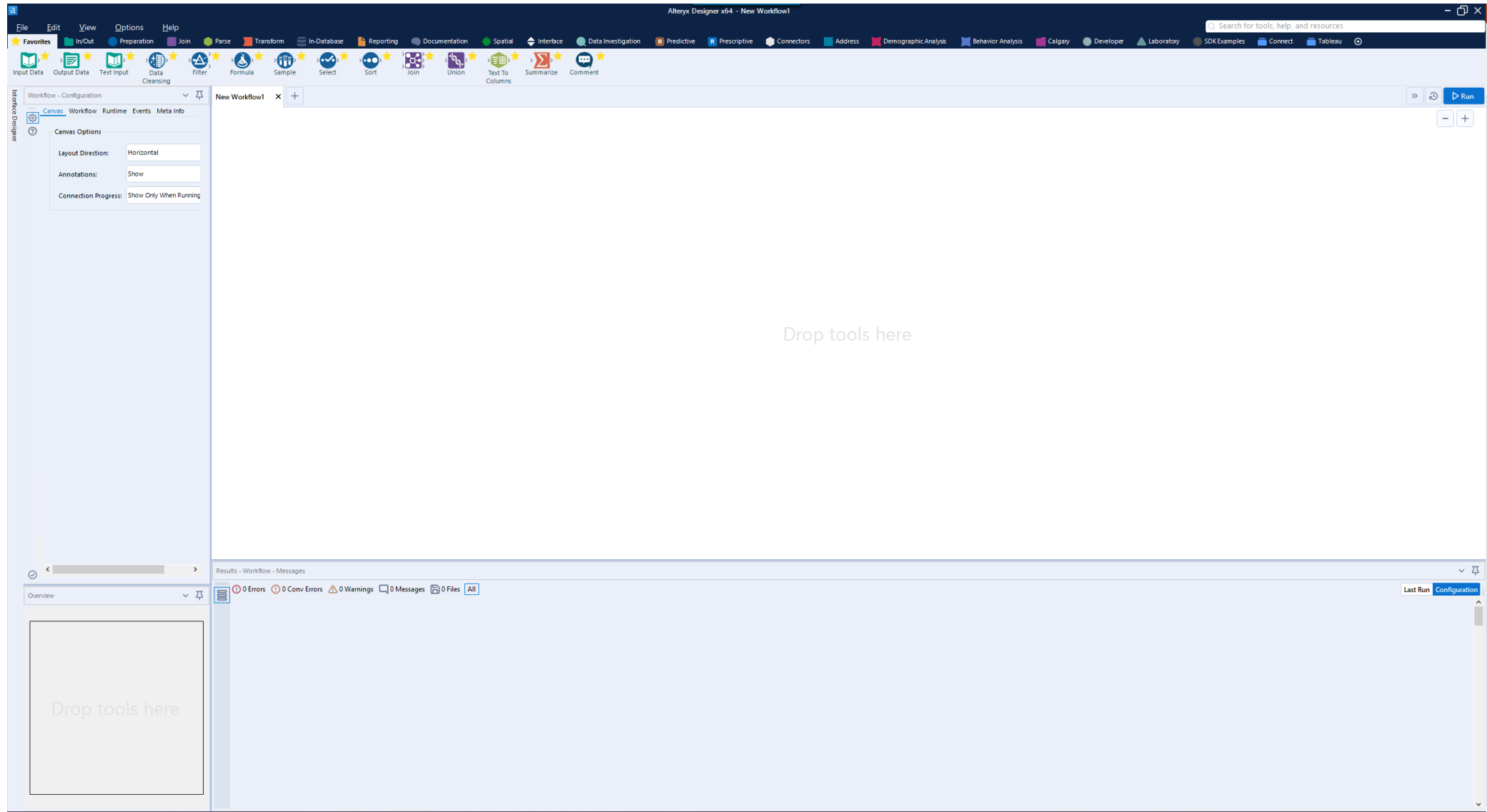


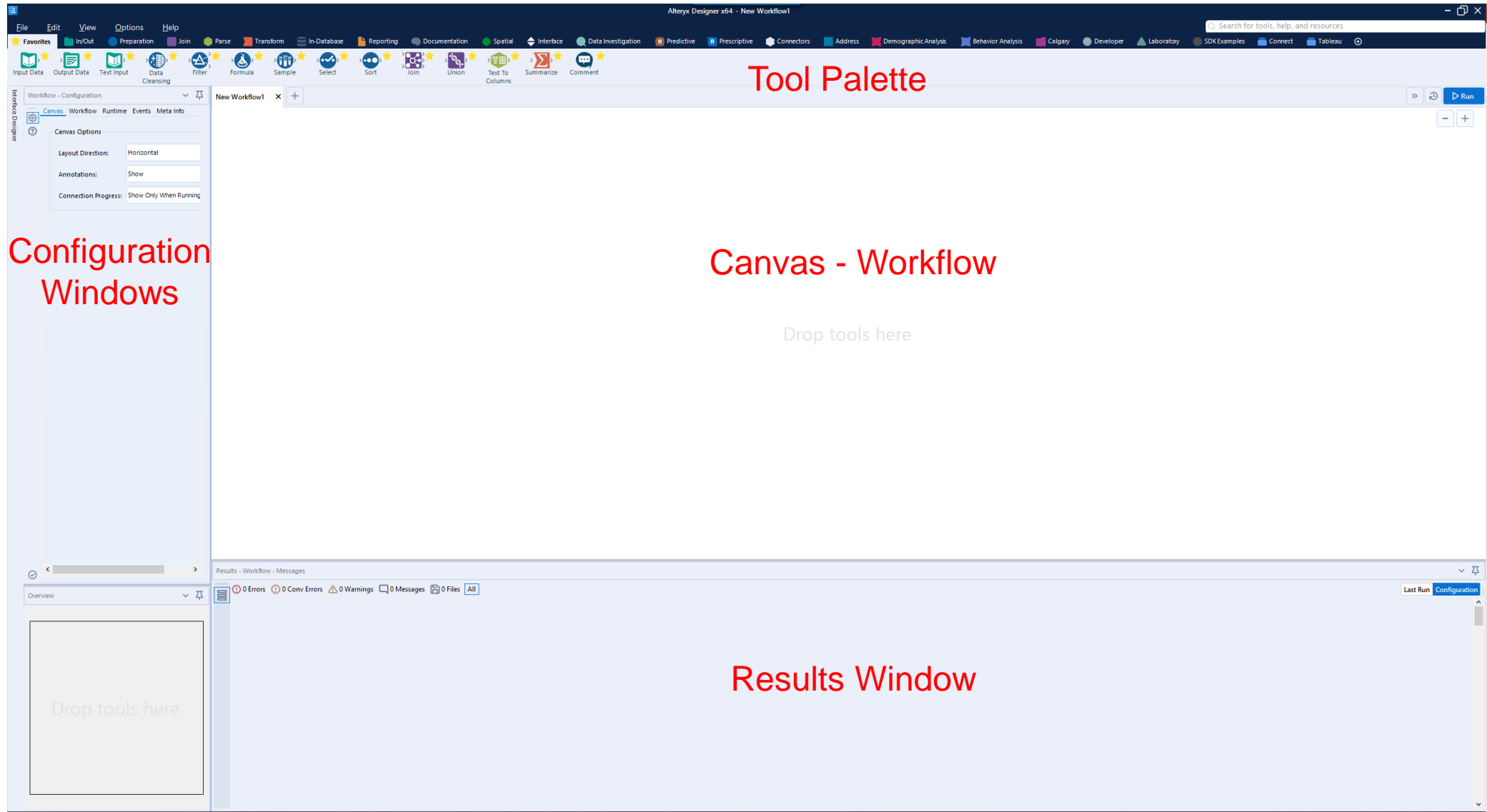
Workshop

- Import sql server database: info7370_input
- Create Microsoft sql server database: info7370_workshop
- Create MySQL database: info7370_workshop
- Create PostgreSQL database: info7370_workshop
- Create Oracle database: info7370

dbName	SchemaName	TableName	Table_Rows
info7370_input	dbo	BuyingGroups	2
info7370_input	dbo	Cities	37,940
info7370_input	dbo	ColdRoomTemperatures	33,510,516
info7370_input	dbo	Colors	36
info7370_input	dbo	Countries	190
info7370_input	dbo	CustomerCategories	8
info7370_input	dbo	Customers	719
info7370_input	dbo	CustomerTransactions	254,256
info7370_input	dbo	DeliveryMethods	10
info7370_input	dbo	OrderLines	588,331
info7370_input	dbo	Orders	192,244
info7370_input	dbo	PackageTypes	14
info7370_input	dbo	PaymentMethods	4
info7370_input	dbo	People	1,167
info7370_input	dbo	SpecialDeals	2
info7370_input	dbo	StateProvinces	53
info7370_input	dbo	StockGroups	10
info7370_input	dbo	StockItemHoldings	227
info7370_input	dbo	StockItems	227
info7370_input	dbo	StockItemStockGroups	442
info7370_input	dbo	StockItemTransactions	598,736
info7370_input	dbo	SupplierCategories	9
info7370_input	dbo	Suppliers	13
info7370_input	dbo	SupplierTransactions	5,413
info7370_input	dbo	TransactionTypes	13

Alteryx





Alteryx – Start Here

The screenshot displays the Alteryx desktop application. The top menu bar includes File, Edit, View, Options, and Help. Below it is a ribbon with various tool categories: Favorites, In/Out, Preparation, Join, Parse, Transform, In-Database, Reporting, Documentation, Spatial, Interface, Data Investigation, Predictive, Prescriptive, Connectors, Address, Demographic Analysis, Behavior Analysis, Calgary, Developer, Laboratory, SDK Examples, Connect, and Tableau. A toolbar below the ribbon contains icons for Input Data, Output Data, Text Input, Data Cleansing, Filter, Formula, Sample, Select, Sort, Join, Union, Text To Columns, Summarize, and Comment. A notification bar states: "Your license will expire in 3 days. Contact your license administrator for help with licensing. [View your license information.](#)". The main workspace shows a "Welcome to Alteryx" screen with the text: "Select one of the following sample workflows to see data being transformed." There are six workflow cards, each with a diagram and an "Open workflow" button:

- Combine two spreadsheets**: Bring multiple spreadsheets together so all your info is available in a single file.
- Input and output multiple sources**: Join several data tables to transform and prepare for output into different data sources.
- Create a dashboard and batch reports**: Create visuals, enable data profiling, and help identify trends using a CSV file.
- Map a trade area**: Analyze location data to calculate ad area distribution in relation to a retail location.

On the right side, there is a "More resources" section with links to:

- Tutorial: Connect to data**: One of the most important tasks is connecting to data. Learn how to connect to data easily with this tutorial.
- Alteryx Use Cases library**: Explore real-world examples where people have utilized Alteryx to dive deep into their data and get insights.
- Supported data sources**: Connect to all kinds of data sources including databases, spreadsheets, cloud, and spatial files. Over 70 data sources are supported to read, write, or read and write.
- Alteryx Academy**: Go from a newbie to an expert quickly with our free training courses!
- Alteryx Help**: Learn detailed information and procedures about the Alteryx Platform.
- Alteryx Community**: Check out the Alteryx Community for solutions, tips, tricks, and more.
- Tool Mastery Index**: Get the most value out of every tool with the Tool Mastery Index.
- Sample workflows**: Download additional real-world samples solving industry and functional problems.

Input Data Tool

The Input Data tool reads data into your workflow by reading from a file or connecting to a database.

1) Run the workflow (Ctrl+R). 2) Select a tool to view its output in the Results window.

Data connections

The Input Data tool acts as a Single Access Point for any data file or connection that can be brought in to Designer.

To connect to data:

- 1) Drag and drop an Input Data tool onto the canvas
- 2) Click the drop down arrow next to Connect a File or Database
- 3) Choose the source: files and data source tabs display all supported connection types. Once those have been configured you can find them on the Recent and Saved tabs.
- 4) Configure connection

Excel File - Select a sheet

This Input Data tool connects to an Excel file; an available sheet must be selected for data to be read.

The Input Data tool previews the first 100 rows at the bottom of the Configuration window.

Excel File - Start reading on specified line number

The first few rows in this Excel spreadsheet do not contain relevant data. "Start Data Import on Line" is set to 5, so that the irrelevant rows are skipped.

Note: Either scroll or expand the divider above the Preview to view more of the Option list.

Excel File - Set a record limit

"Record Limit" is set to 50 to speed up performance during development, especially when the Input Data tool is pulling records from a database.

Excel File - Define a data range

After an excel file is selected, a named range may be selected. If the excel file contains a named range, the dropdown defaults to the available range.

If no named range exists, sheet names are selectable in the dropdown.

Excel File - List of sheet names

Instead of inputting rows of data, when connected to an excel file, a list of the names of the sheets contained in that file can be read in.

Comma-Delimited Text File (.csv)

Other file types - Classic Mode

The Input Data tool can connect to many other file types. To see a complete list:

1. Drag an Input Data tool onto the canvas.
2. In the "Connect a File or Database" drop-down, select File.
3. Click the "Files of type" drop-down to see the list of supported files.

Output Data Tool The Output Data tool sends the contents of a data stream to a file or database.

1) Run the workflow (Ctrl+R). 2) Click the links in the Results Window to open your files.

Write output to a single .csv file

This Output Data tool writes to a single .csv file using default options.

To browse output files, click the Messages button () in the Results window.

Note: All files generated by this example workflow are saved to a temporary folder.

Write output to a single .yxdb file

This Output Data tool writes to a single .yxdb file using default options.

The .yxdb format is the most efficient file type for reading and writing in Alteryx. To improve performance, consider first writing data to a .yxdb file and then reading that file into a workflow.

Write output to multiple .yxdb files - Field name

This Output Data tool is configured to create a separate file for each value in the Region field and append that value to the end of the file name.

Four .yxdb files are generated:

- 1) "OutputToolExample_RegionGrouped_Midwest.yxdb"
- 2) "OutputToolExample_RegionGrouped_Northeast.yxdb"
- 3) "OutputToolExample_RegionGrouped_South.yxdb"
- 4) "OutputToolExample_RegionGrouped_West.yxdb"

Write output to multiple .csv files - Max records per file

This Output Data tool is configured to create a separate .csv file for every two records in the data stream using the "Max Records Per File" option.

Note: The pipe (|) is set as the delimiter rather than the default, comma.

Three .csv files are generated:

- 1) "OutputToolExample_WithMaxRecords.csv"
- 2) "OutputToolExample_WithMaxRecords_1.csv"
- 3) "OutputToolExample_WithMaxRecords_2.csv"

Write output to another file type, a database, or saved data connection

The Output Data tool can write to many file and database types. You can also write to a saved data connection or a connection shared through a Private Gallery when using Alteryx Server.

1. Drag an Output Data tool onto the canvas and connect the Text Input tool to it.
2. In the "Write to File or Database" drop-down, select an option:

File - Click the "Save as type" drop-down to see the list of supported files.

Microsoft SQL Server - Follow the prompts to connect to your database.

Oracle - Follow the prompts to connect to your database.

Hadoop - Follow the prompts to connect to your database.

Other Databases - Select a database type and follow the prompts.

Saved Data Connections - Select an existing connection or "Add a Gallery".

To see a list of supported file types and databases, select an Output Data tool and press F1.

Alteryx Designer x64 - Formula.yxmd

File Edit View Options Help

★ Favorites In/Out Preparation Join Parse Transform In-Database Reporting Documentation Spatial Interface Data Investigation Predictive Prescriptive Connect

Input Data Output Data Text Input Data Cleansing Filter Formula Sample Select Sort Join Union Text To Columns Summarize Comment

Workflow - Configuration Canvas Workflow Runtime Events Meta Info

Canvas Options

Layout Direction: Horizontal

Annotations: Hide

Connection Progress: Show Only When Running

Input_Data.yxmd* Output_Data.yxmd Formula.yxmd Join.yxmd Auto_Field.yxmd

Formula Tool

The Formula tool enables you to perform a broad variety of calculations and/or operations to create new data columns or update existing columns.

1) Run the workflow (Ctrl+R). 2) Select a tool to view its output in the Results window.

Create a new static column

"RecordSource" is added under "Output Column" to create a new column with a text entry showing the source of the records.

IF/ELSE Conditional Formula

A new "Region" column is added based on the values in the Latitude column using the IF/Then/Else function. To search for functions, click the Functions "fx" button to the left of the expression box or begin typing and choose from the list that appears.

'New modified' column

A new column is created based on the City column, with a function to set consistent capitalization.

Modify existing column

Instead of adding a new Output Column, an existing column (City) is chosen and the capitalization function is applied directly.

Multiple columns

A single Formula tool can contain multiple formulas for multiple columns. Here, three of the examples above are represented in one tool.

Complex formula, single step

A new column (AverageSpendPerVisit) is created in a single expression by dividing two existing columns and rounding the result to the nearest whole number.

Complex formula, multiple steps

In this Formula tool, the same calculation as above is performed but in 2 steps:
1) Spend is divided by the number of Visits.
2) The result of the expression above is then rounded.

More Info

To reference a column or constant in an expression, click the blue Columns and Constants "X" button, or type a left bracket "[" in the expression box and choose from the list that appears.

Alteryx Designer x64 - Join.yxmd

File Edit View Options Help

★ Favorites In/Out Preparation Join Parse Transform In-Database Reporting Documentation Spatial Interface Data Investigation Predictive Prescriptive

Input Data Output Data Text Input Data Cleansing Filter Formula Sample Select Sort Join Union Text To Columns Summarize Comment

Workflow - Configuration Canvas Workflow Runtime Events Meta Info

Canvas Options

Layout Direction: Horizontal

Annotations: Hide

Connection Progress: Show Only When Running

Input_Data.yxmd* Output_Data.yxmd Formula.yxmd Join.yxmd Auto_Field.yxmd

Join Tool

The Join tool combines two data streams based on common fields or record position. In the joined output, each row will contain the data from both inputs.

1) Run the workflow (Ctrl+R). 2) Select a tool to view its output in the Results window. 3) Select (L)eft unjoined, (J)oined, (R)ight unjoined.

Join by Single Field (CustomerID)

The J output contains records matched from the L and R inputs based on the common CustomerID field.

The L and R outputs will contain any records that do not match from the L and R inputs.

Because File A contained a CustomerID that was not in File B, this unjoined record appears in the L (Left Unjoined) output.

Join by Multiple Fields (FirstName & LastName)

The J output contains the records that matched based on the common FirstName and LastName fields.

Duplicate field names (Right_FirstName and Right_LastName) are removed from the output by clicking Options > Deselect Duplicate Fields.

Join by Record Position

The J (Joined) output contains the records that matched based on the position of the data within the two tables.

Joining data by record position must be used with caution as any variation will affect the results.

More Info

A Join tool can be combined with a Union tool to produce Outer Joins. Select a Join tool and press F1 to learn more.

Join vs. Union

The Join and Union tools merge data sets differently.

- o A Union tool puts rows from 2+ streams in rows on top of each other.
- o A Join tool puts rows from 2 streams next to each other in the same record.

In this example:
The Union tool stacks the 2 data streams on top of each other to produce 4 records with 3 columns each.

The Join tool puts the rows next to each other to produce 2 records with 6 columns each.

The screenshot displays the Alteryx Designer x64 - Auto_Field.yxmd workflow. The interface includes a menu bar (File, Edit, View, Options, Help), a toolbar with various tool categories (Favorites, In/Out, Preparation, Join, Parse, Transform, In-Database, Reporting, Documentation, Spatial, Interface, Data Investigation, Predictive, Prescriptive, Connectors), and a workflow canvas. The workflow canvas shows a sequence of tools: Input Data, Output Data, Text Input, Data Cleansing, Filter, Formula, Sample, Select, Sort, Join, Union, Text To Columns, Summarize, and Comment. The Auto Field tool is highlighted in the workflow.

Auto Field Tool

Automatically set the field type for each string field to the smallest possible size and type that will accommodate the data in each column.

1) Run the workflow (Ctrl+R). 2) Select a tool to view its output in the Results window.

Select String Fields for Auto Field

The Auto Field tool scans the data to determine the smallest possible string type and length which will contain the data. This reduces resource consumption and can result in significant speed improvements for your workflow.

In the example to the left, the State and City columns have been changed from string length of 254 each to 20 and 57, respectively.

To view the differences in the field sizes, select the Auto Field tool, select the Metadata button in the Results Window, then view the Input and Output results.

More Info

Add the Auto Field tool directly after adding an Input tool to can potentially improve the performance of your workflow if any field's type or size is adjusted.

Alteryx

- Handling Data
 - Files csv
 - Files Excel
 - Tables
 - In-Database
- Joins
- Filters, Formulas, Select, etc.

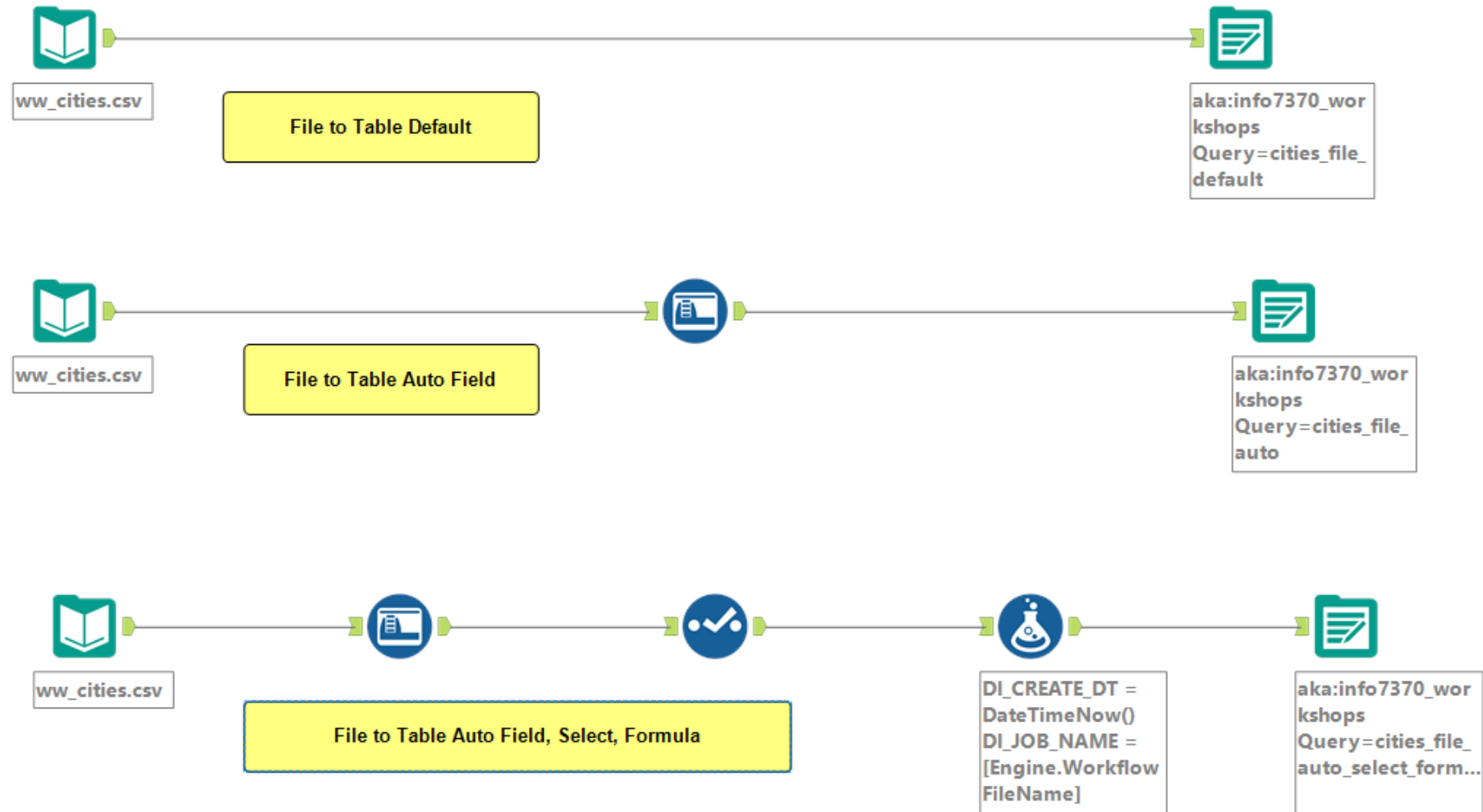
Alteryx

- DI_Create_DT, DateTime, DateTimeNow()
- DI_Job_Name, V_Wstring(255), [Engine.WorkflowFileName]

Source to Target (S2T) Mapping

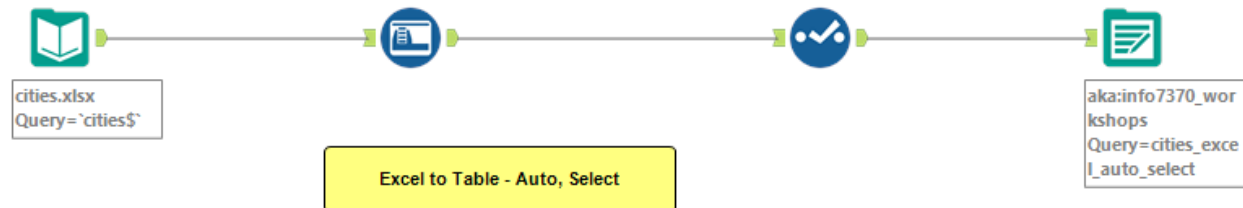
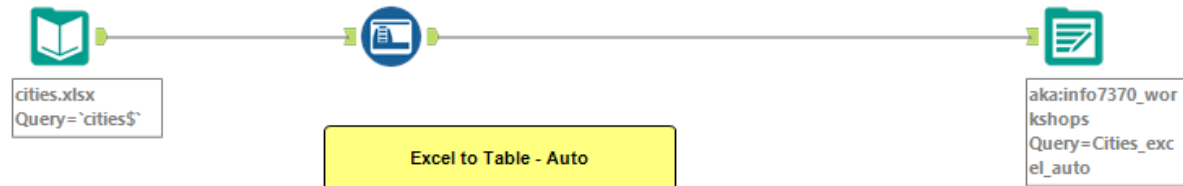
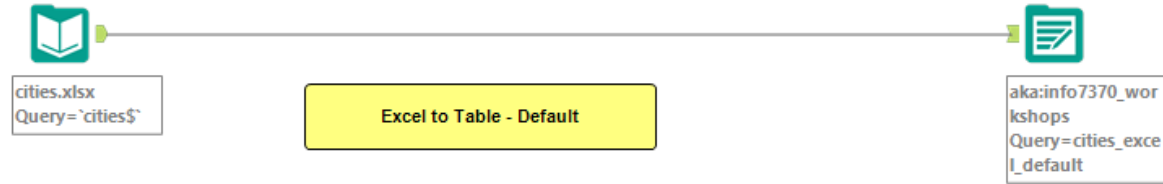
Column	Data Type	SSIS	Alteryx	Talend
di_tool	nvarchar(40)	SSIS	Alteryx	Talend
di_job_id	nvarchar(40)	@[System::TaskID]		
di_job_name	nvarchar(40)	@[System::TaskName]	[Engine.WorkflowFileName]	global.jobName
di_create_date	Datetime	getdate()	datetimeow()	getdate()
TaskID	nvarchar(40)	@[System::TaskID]		
TaskName	nvarchar(40)	@[System::TaskName]		
PackageID	nvarchar(40)	@[System::PackageID]		
PackageName	nvarchar(40)	@[System::PackageName]		

Alteryx: cities_file_input.yxmd

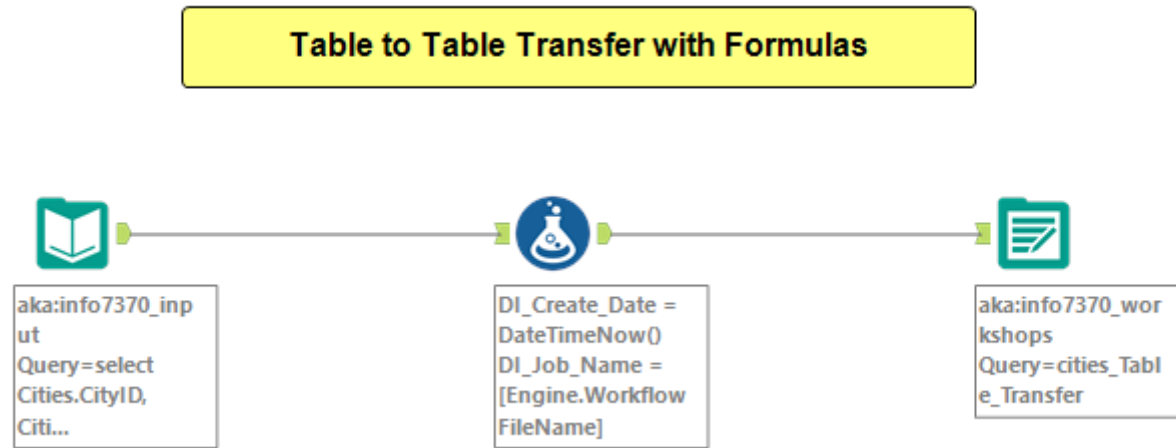


Alteryx: cities_Excel_input.yxmd

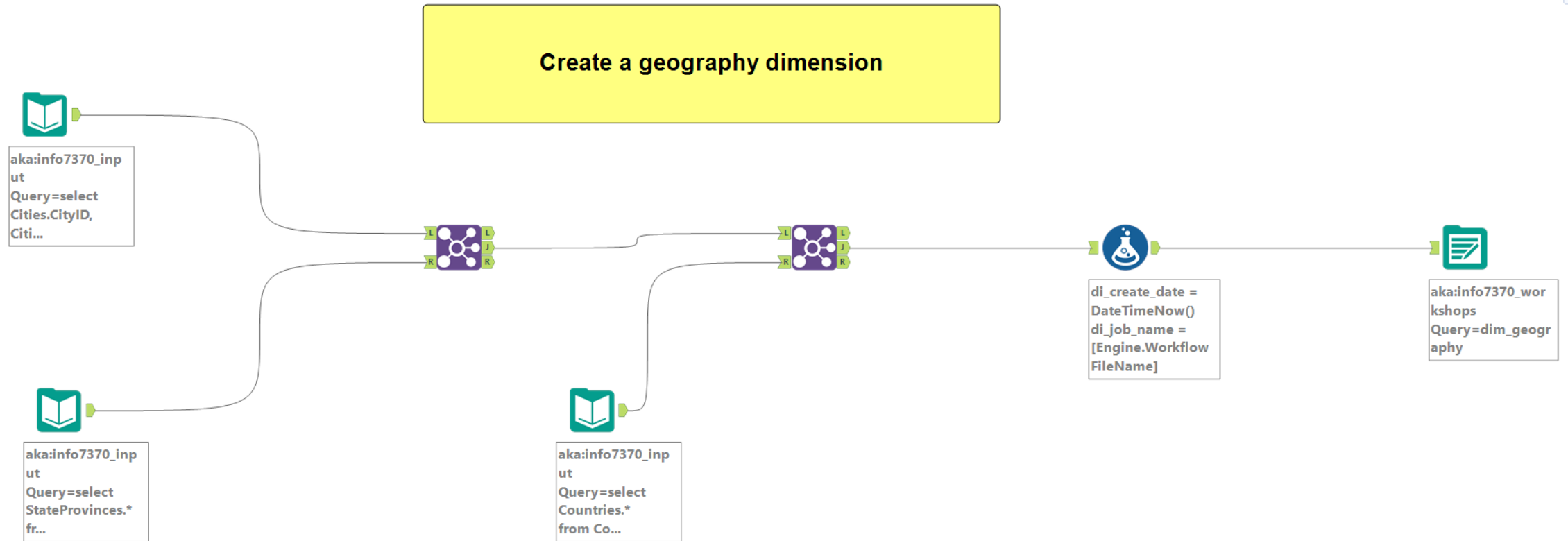
Start Here.yxmd* X customer_in-database_stream_out.yxmd X ww customer orders_Autosave* X customer_in-database.yxmd* X ww_countries.yxmd X countries_table_to_Table.yxmd X cities_file_input.yxmd* X cities_Excel_input.yxmd X



Alteryx: cities_Table_input.yxmd



Alteryx: create_dim_geography_workshop.yxmd



Create Dim geography

Alteryx Designer x64 - create_dim_geography_workshop.yxmd*

File Edit View Options Help

Input Data (9) - Configuration

Connect a File or Database

akainfo7370_input

Options

Name	Value
1 Record Limit	
2 File Format	ODBC Database (odbc)
3 Table or Query	select Cities.* from Cities
4 Cache Data	<input type="checkbox"/>
5 Table/FieldName SQL Style	Quoted
6 Read Uncommitted	<input type="checkbox"/>
7 Do Not Show % Complete	<input checked="" type="checkbox"/>
8 Pre SQL Statement	
9 Run PreSQL on tool configuration	<input checked="" type="checkbox"/>
10 Post SQL Statement	

Preview (first 100 records)

Refresh

The preview will not automatically show for network files or relational databases. To see a preview, click the "Refresh" button above.

Results - Input Data (9) - Messages

0 Errors 0 Conv Errors 1 Warnings 3 Messages

Input Da Alias translated to odbc:DRIVER={ODBC D

Input Da ODBC Driver version: 03.80

Input Da A blob or binary field has been detected in y

Input Da 37940 records were read from akainfo7370_

Overview

Visual Query Builder

Choose Table or Specify Query

Tables Visual Query Builder Stored Procedures SQL Editor

Main

Cities

CityID	CityName	StateProvinceID	Location	LatestRecordedPopulation	LastEditedBy	ValidFrom	ValidTo
1	Atlanta	GA		4700000	1	2008-01-01	2008-12-31
2	Boston	MA		6000000	1	2008-01-01	2008-12-31
3	Chicago	IL		9000000	1	2008-01-01	2008-12-31
4	Dallas	TX		6000000	1	2008-01-01	2008-12-31
5	Denver	CO		3000000	1	2008-01-01	2008-12-31
6	Houston	TX		6000000	1	2008-01-01	2008-12-31
7	Los Angeles	CA		10000000	1	2008-01-01	2008-12-31
8	Memphis	TN		2000000	1	2008-01-01	2008-12-31
9	Minneapolis	MN		3000000	1	2008-01-01	2008-12-31
10	Miami	FL		4000000	1	2008-01-01	2008-12-31

Visible Expression Colu... Sort Type Sort Order Aggregate Grouping Criteria Or... Or...

Open Visual Query Builder view by default

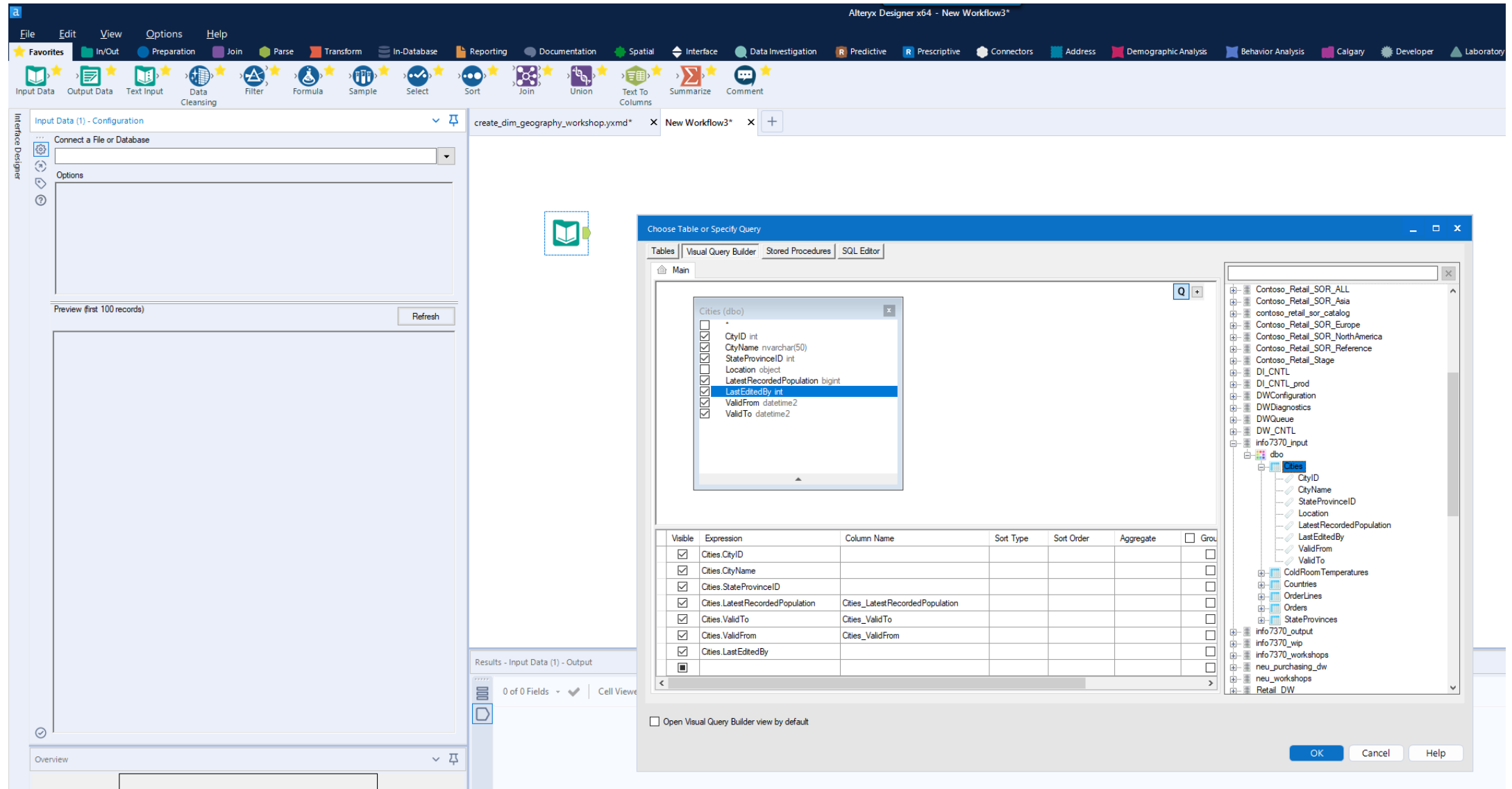
OK Cancel Help

Create a geography dimension

Create Dim geography

The screenshot displays the Alteryx Designer x64 - New Workflow3* interface. The top menu bar includes File, Edit, View, Options, and Help. Below the menu is a toolbar with various tool icons categorized by function: Input Data, Output Data, Text Input, Data Cleansing, Filter, Formula, Sample, Select, Sort, Join, Union, Text To Columns, Summarize, and Comment. The main workspace shows a workflow titled 'create_dim_geography_workshop.yxmd' with a single tool, 'Input Data (1) - Configuration', which is currently selected. The 'Input Data (1) - Configuration' panel on the left includes a 'Connect a File or Database' dropdown, an 'Options' section, and a 'Preview (first 100 records)' area with a 'Refresh' button. A 'SQL Server Database Connection' dialog box is open in the foreground, showing the following fields: 'Connection Name' (info7370_input), 'Type' (System), 'Host' (localhost), 'Authentication Type' (Windows Authentication selected), 'User Name' (empty), 'Password' (empty), and 'Default Database' (info7370_input). The dialog has 'OK', 'Cancel', and 'Help' buttons at the bottom right. The bottom status bar indicates 'Results - Input Data (1) - Output' with '0 of 0 Fields' and 'Cell Viewer' options.

Create Dim geography



The screenshot shows the Alteryx Designer x64 - New Workflow3* interface. The main window displays the 'Choose Table or Specify Query' dialog box. The 'Tables' tab is selected, showing a list of tables in the 'dbo' schema. The 'Cities' table is selected, and its columns are listed in the table below.

Visible	Expression	Column Name	Sort Type	Sort Order	Aggregate	Group
<input checked="" type="checkbox"/>	Cities.CityID					<input type="checkbox"/>
<input checked="" type="checkbox"/>	Cities.CityName					<input type="checkbox"/>
<input checked="" type="checkbox"/>	Cities.StateProvinceID					<input type="checkbox"/>
<input checked="" type="checkbox"/>	Cities.LatestRecordedPopulation	Cities_LatestRecordedPopulation				<input type="checkbox"/>
<input checked="" type="checkbox"/>	Cities.ValidTo	Cities_ValidTo				<input type="checkbox"/>
<input checked="" type="checkbox"/>	Cities.ValidFrom	Cities_ValidFrom				<input type="checkbox"/>
<input checked="" type="checkbox"/>	Cities.LastEditedBy					<input type="checkbox"/>

The 'Cities' table is selected, and its columns are listed in the table below:

- CityID int
- CityName nvarchar(50)
- StateProvinceID int
- Location object
- LatestRecordedPopulation bigint
- LastEditedBy int
- ValidFrom datetime2
- ValidTo datetime2

Create Dim geography

Altteryx Designer x64 - New Workflow3*

File Edit View Options Help

Favorites In/Out Preparation Join Parse Transform In-Database Reporting Documentation Spatial Interface Data Investigation Predictive Prescriptive Connecto

Input Data Output Data Text Input Data Cleansing Filter Formula Sample Select Sort Join Union Text To Columns Summarize Comment

Input Data (1) - Configuration

Connect a File or Database

aka:info7370_input

Options

Name	Value
1 Record Limit	
2 File Format	ODBC Database (odbc)
3 Table or Query	select Cities.CityID, Cities.CityName, Cities.StateProvinceID, Cities.LatestRecordedPopulation as Cities_Lat...
4 Cache Data	<input type="checkbox"/>
5 Table/Field Name SQL Style	Quoted
6 Read Uncommitted	<input type="checkbox"/>

Preview (first 100 records)

Refresh

	CityID	CityName	StateProvinceID	Cities_LatestRecordedPopulation	Cities_ValidTo	Cities_ValidFrom	LastEditedBy
1	1	Aarnsburg	39	613	9999-12-31 23:59:59	2013-01-01 00:00:00	1
2	3	Abanda	1	192	9999-12-31 23:59:59	2013-01-01 00:00:00	1
3	4	Abbeville	42	5237	9999-12-31 23:59:59	2013-01-01 00:00:00	1
4	5	Abbeville	11	2908	9999-12-31 23:59:59	2013-01-01 00:00:00	1
5	6	Abbeville	1	2688	9999-12-31 23:59:59	2013-01-01 00:00:00	1
6	7	Abbeville	19	12257	9999-12-31 23:59:59	2013-01-01 00:00:00	1
7	8	Abbeville	25	419	9999-12-31 23:59:59	2013-01-01 00:00:00	1
8	9	Abbotsford	52	2310	9999-12-31 23:59:59	2013-01-01 00:00:00	1
9	10	Abbutt	45	356	9999-12-31 23:59:59	2013-01-01 00:00:00	1
10	11	Abbutt	4	356	9999-12-31 23:59:59	2013-01-01 00:00:00	1
11	12	Abbutt	32	[Null]	9999-12-31 23:59:59	2013-01-01 00:00:00	1
12	13	Abbutt	49	356	9999-12-31 23:59:59	2013-01-01 00:00:00	1
13	14	Abbutt	51	[Null]	9999-12-31 23:59:59	2013-01-01 00:00:00	1
14	15	Abbotsburg	34	[Null]	9999-12-31 23:59:59	2013-01-01 00:00:00	1
15	16	Abbotstown	39	1011	9999-12-31 23:59:59	2013-01-01 00:00:00	1
16	17	Abbyville	17	87	9999-12-31 23:59:59	2013-01-01 00:00:00	1
17	18	Abell	45	[Null]	9999-12-31 23:59:59	2013-01-01 00:00:00	1
18	19	Abercrombie	35	263	9999-12-31 23:59:59	2013-01-01 00:00:00	1
19	20	Aberdeen	43	26091	9999-12-31 23:59:59	2013-01-01 00:00:00	1
20	21	Aberdeen	21	14959	9999-12-31 23:59:59	2013-01-01 00:00:00	1
21	22	Aberdeen	50	16896	9999-12-31 23:59:59	2013-01-01 00:00:00	1
22	23	Aberdeen	13	1994	9999-12-31 23:59:59	2013-01-01 00:00:00	1
23	24	Aberdeen	34	6250	9999-12-31 23:59:59	2013-01-01 00:00:00	1
24	25	Aberdeen	25	5812	9999-12-31 23:59:59	2013-01-01 00:00:00	1
25	26	Aberdeen	36	1638	9999-12-31 23:59:59	2013-01-01 00:00:00	1
26	27	Aberdeen	18	[Null]	9999-12-31 23:59:59	2013-01-01 00:00:00	1
27	28	Aberfoil	1	[Null]	9999-12-31 23:59:59	2013-01-01 00:00:00	1
28	29	Abernant	1	[Null]	9999-12-31 23:59:59	2013-01-01 00:00:00	1
29	30	Abernathy	45	2805	9999-12-31 23:59:59	2013-01-01 00:00:00	1
30	31	Abeytas	32	56	9999-12-31 23:59:59	2013-01-01 00:00:00	1
31	32	Abie	28	69	9999-12-31 23:59:59	2013-01-01 00:00:00	1
32	33	Abilene	45	117063	9999-12-31 23:59:59	2013-01-01 00:00:00	1

Overview

aka:info7370_imp
ut
Query=select
Cities.CityID,
Cit...

create_dim_geography_workshop.yxmd

New Workflow3*

Results - Input Data (1) - Output

0 of 0 Fields

Cell Viewer

Create Dim geography

Alteryx Designer x64 - New Workflow3*

File Edit View Options Help

Input Data Output Data Text Input Data Cleansing Filter Formula Sample Select Sort Join Union Text To Columns Summarize Comment

Input Data (1) - Configuration

Connect a File or Database

aka:info7370_input

Options

Name	Value
1 Record Limit	
2 File Format	ODBC Database (odbc)
3 Table or Query	select Cities.CityID, Cities.CityName, Cities.StateProvinceID, Cities.LatestRecordedPopulation as Cities_Lat...
4 Cache Data	<input type="checkbox"/>
5 Table/Field Name SQL Style	Quoted
6 Read Uncommitted	<input type="checkbox"/>

Preview (first 100 records)

CityID	CityName	StateProvinceID	Cities_LatestRecordedPopulation	Cities_ValidTo	Cities_ValidFrom	LastEditedBy
1	Aaronsburg	39	613	9999-12-31 23:59:59	2013-01-01 00:00:00	1
2	Abanda	1	192	9999-12-31 23:59:59	2013-01-01 00:00:00	1
3	Abbeville	42	5237	9999-12-31 23:59:59	2013-01-01 00:00:00	1
4	Abbeville	11	2908	9999-12-31 23:59:59	2013-01-01 00:00:00	1
5	Abbeville	1	2688	9999-12-31 23:59:59	2013-01-01 00:00:00	1
6	Abbeville	19	12257	9999-12-31 23:59:59	2013-01-01 00:00:00	1
7	Abbeville	25	419	9999-12-31 23:59:59	2013-01-01 00:00:00	1
8	Abbotsford	52	2310	9999-12-31 23:59:59	2013-01-01 00:00:00	1
9	Abbot	45	356	9999-12-31 23:59:59	2013-01-01 00:00:00	1
10	Abbot	4	356	9999-12-31 23:59:59	2013-01-01 00:00:00	1
11	Abbot	32	[Null]	9999-12-31 23:59:59	2013-01-01 00:00:00	1
12	Abbot	49	356	9999-12-31 23:59:59	2013-01-01 00:00:00	1
13	Abbot	51	[Null]	9999-12-31 23:59:59	2013-01-01 00:00:00	1
14	Abbotsburg	34	[Null]	9999-12-31 23:59:59	2013-01-01 00:00:00	1
15	Abbotstown	39	1011	9999-12-31 23:59:59	2013-01-01 00:00:00	1
16	Abbyville	17	87	9999-12-31 23:59:59	2013-01-01 00:00:00	1
17	Abell	45	[Null]	9999-12-31 23:59:59	2013-01-01 00:00:00	1
18	Abercrombie	35	263	9999-12-31 23:59:59	2013-01-01 00:00:00	1
19	Aberdeen	43	26091	9999-12-31 23:59:59	2013-01-01 00:00:00	1
20	Aberdeen	21	14959	9999-12-31 23:59:59	2013-01-01 00:00:00	1
21	Aberdeen	50	16896	9999-12-31 23:59:59	2013-01-01 00:00:00	1
22	Aberdeen	13	1994	9999-12-31 23:59:59	2013-01-01 00:00:00	1
23	Aberdeen	34	6350	9999-12-31 23:59:59	2013-01-01 00:00:00	1
24	Aberdeen	25	5612	9999-12-31 23:59:59	2013-01-01 00:00:00	1
25	Aberdeen	36	1638	9999-12-31 23:59:59	2013-01-01 00:00:00	1
26	Aberdeen	18	[Null]	9999-12-31 23:59:59	2013-01-01 00:00:00	1
27	Aberfo	1	[Null]	9999-12-31 23:59:59	2013-01-01 00:00:00	1
28	Abernant	1	[Null]	9999-12-31 23:59:59	2013-01-01 00:00:00	1
29	Abernathy	45	2805	9999-12-31 23:59:59	2013-01-01 00:00:00	1
30	Abeytas	32	56	9999-12-31 23:59:59	2013-01-01 00:00:00	1
31	Abie	28	69	9999-12-31 23:59:59	2013-01-01 00:00:00	1
32	Abilene	45	117063	9999-12-31 23:59:59	2013-01-01 00:00:00	1

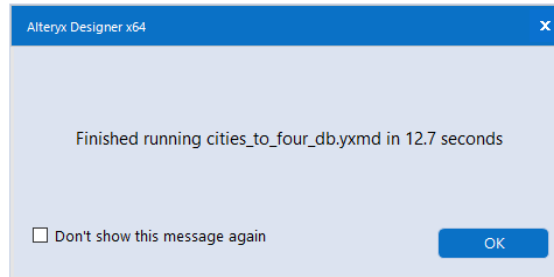
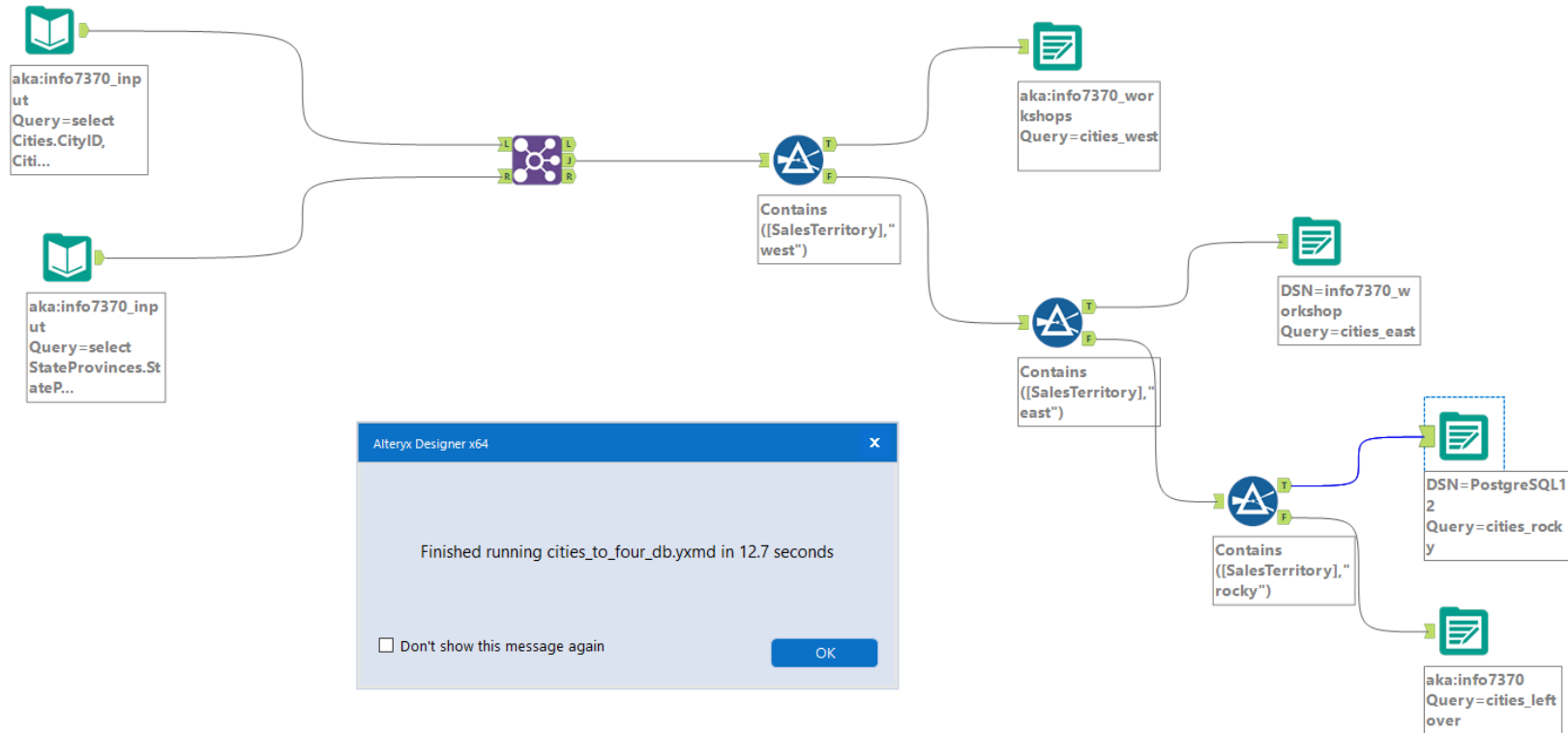
Results - Input Data (1) - Output

0 of 0 Fields | Cell Viewer | ↑ ↓

Data Preparation

More examples

Alteryx: cities_to_four_db.yxmd

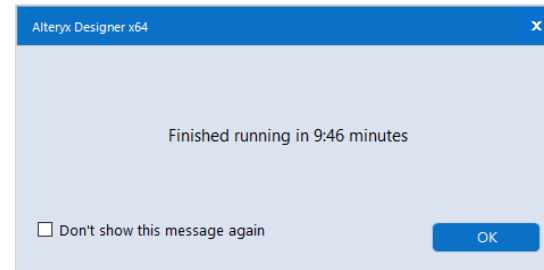
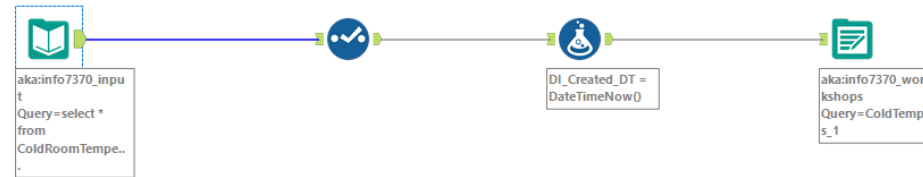


Output Data (11) - Input

3 of 8 Fields | Cell Viewer | 2,213 records displayed

Record	CityID	CityName	StateProvinceID	Right_StateProvinceID	StateProvinceCode	StateProvinceName	CountryID	SalesTerritory
1	110	Adams City	6	6	CO	Colorado	230	Rocky Mountain
2	184	Agate	6	6	CO	Colorado	230	Rocky Mountain
3	214	Aguilar	6	6	CO	Colorado	230	Rocky Mountain

Alteryx – ColdRoomTemperatures_tables.yxmd

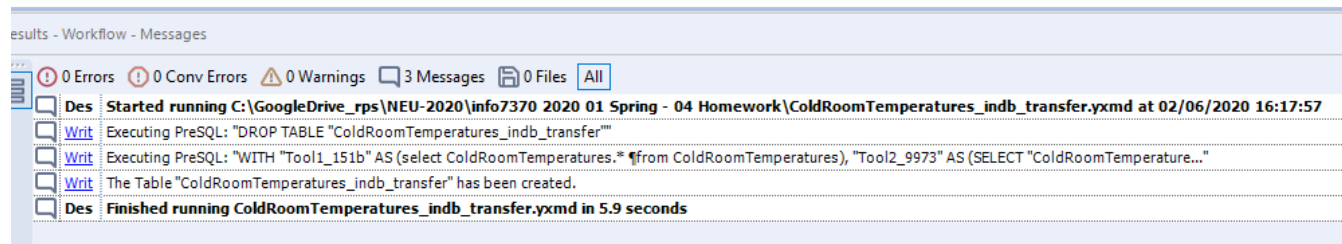
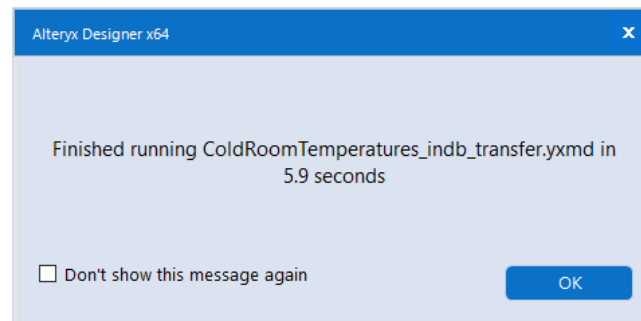


Results - Input Data (1) - Output

6 of 6 Fields | Cell Viewer | 12,034 of 33,510,516 records displayed (partial results)

Record	ColdRoomTemperatureID	ColdRoomSensorNumber	RecordedWhen	Temperature	ValidFrom	ValidTo
1	17130153	1	2018-01-26 11:41:21	3.14	2018-01-26 11:41:21	2018-01-26 11:41:25
2	17130154	2	2018-01-26 11:41:21	3.91	2018-01-26 11:41:21	2018-01-26 11:41:25
3	17130155	3	2018-01-26 11:41:21	4.49	2018-01-26 11:41:21	2018-01-26 11:41:25
4	17130156	4	2018-01-26 11:41:21	3.81	2018-01-26 11:41:21	2018-01-26 11:41:25
5	17130157	1	2018-01-26 11:41:25	3.11	2018-01-26 11:41:25	2018-01-26 11:41:53
6	17130158	2	2018-01-26 11:41:25	3.90	2018-01-26 11:41:25	2018-01-26 11:41:53
7	17130159	3	2018-01-26 11:41:25	4.61	2018-01-26 11:41:25	2018-01-26 11:41:53
8	17130160	4	2018-01-26 11:41:25	4.60	2018-01-26 11:41:25	2018-01-26 11:41:53
9	17130161	1	2018-01-26 11:41:53	4.14	2018-01-26 11:41:53	2018-01-26 11:42:12
10	17130162	2	2018-01-26 11:41:53	3.78	2018-01-26 11:41:53	2018-01-26 11:42:12
11	17130163	3	2018-01-26 11:41:53	3.42	2018-01-26 11:41:53	2018-01-26 11:42:12
12	17130164	4	2018-01-26 11:41:53	3.63	2018-01-26 11:41:53	2018-01-26 11:42:12

ColdRoomTemperatures_indb_transfer.yxmd



Alteryx: customer_in_database.yxmd

