

## Using Alteryx

Alteryx is used by several Big Four accounting firms to automate the ETL process. In this exercise, you will **Extract** the General Journal file, **Transform** the data into the required format (a General Ledger and an Unadjusted Trial Balance), and then **Load** the transformed data into Excel.

The journal entries for *A Byte of Accounting* are stored in an Excel sheet titled General Journal. Notice that the column headings are in the fourth row, and some rows do not have account numbers.

Begin with the General Journal

A Byte of Accounting, Inc. General Journal							
Note: You can only enter data into the yellow filled cells.							
Transaction	Date	Account	Name	Description	Debit	Credit	
01	Jun 01	1110	Cash	Investment from Mark Friedman	28,000.00		
01	Jun 01	3100	Capital Stock	Investment from Mark Friedman		28,000.00	
02	Jun 01	1211	Office Equip.	Hudson equipment Invoice BC3887	4,000.00		
02	Jun 01	2101	Accounts Payable	Hudson equipment Invoice BC3887		4,000.00	
08	Jun 14	1110	Cash	Services performed by Lucas Pictures	11,000.00		
08	Jun 14	4100	Computer & Consulting Revenue	Services performed by Lucas Pictures		11,000.00	

Introduction | FAQ | Welcome | Chart of Accounts | Transaction | **General Journal** | Worksheet

End with the General Ledger and the Unadjusted Trial Balance

Account Name	Transaction	Date	Description	Debit	Credit	Running Balance
1110 Cash	1	6/1/2018	Investment from Mark Friedman	\$28,000.00	\$ -	\$ 28,000.00
1110 Cash	3	6/1/2018	Hailey Computers 87245, ck6001	\$ -	\$ 7,000.00	\$ 21,000.00
1110 Cash	5	6/4/2018	Scanner, Jake Supplies, 54-541 ck6002	\$ -	\$ 125.00	\$ 20,875.00
1110 Cash	7	6/8/2018	Pd A/p ck6003	\$ -	\$ 640.00	\$ 20,235.00
1110 Cash	8	6/14/2018	Services performed by Lucas Pictures	\$11,000.00	\$ -	\$ 31,235.00
1211 Office Equip.	2	6/1/2018	Hudson equipment Invoice BC3887	\$ 4,000.00	\$ -	\$ 4,000.00
1211 Office Equip.	5	6/4/2018	Scanner, Jake Supplies, 54-541 ck6002	\$ 125.00	\$ -	\$ 4,125.00
1311 Computer Equip.	3	6/1/2018	Hailey Computers 87245, ck6001	\$ 7,000.00	\$ -	\$ 7,000.00
2101 Accounts Payable	2	6/1/2018	Hudson equipment Invoice BC3887	\$ -	\$ 4,000.00	\$ (4,000.00)
2101 Accounts Payable	4	6/2/2018	Avery Repairs, Invoice 25478	\$ -	\$ 725.00	\$ (4,725.00)
2101 Accounts Payable	6	6/8/2018	Zac Advertising, 23547	\$ -	\$ 3,380.00	\$ (8,105.00)
2101 Accounts Payable	7	6/8/2018	Pd A/p ck6003	\$ 640.00	\$ -	\$ (7,465.00)
3100 Capital Stock	1	6/1/2018	Investment from Mark Friedman	\$ -	\$ 28,000.00	\$ (28,000.00)
4100 Computer & Consulting Revenue	8	6/14/2018	Services performed by Lucas Pictures	\$ -	\$ 11,000.00	\$ (11,000.00)
5030 Advertising Expense	6	6/8/2018	Zac Advertising, 23547	\$ 3,380.00	\$ -	\$ 3,380.00
5040 Repairs & Maint. Expense	4	6/2/2018	Avery Repairs, Invoice 25478	\$ 725.00	\$ -	\$ 725.00

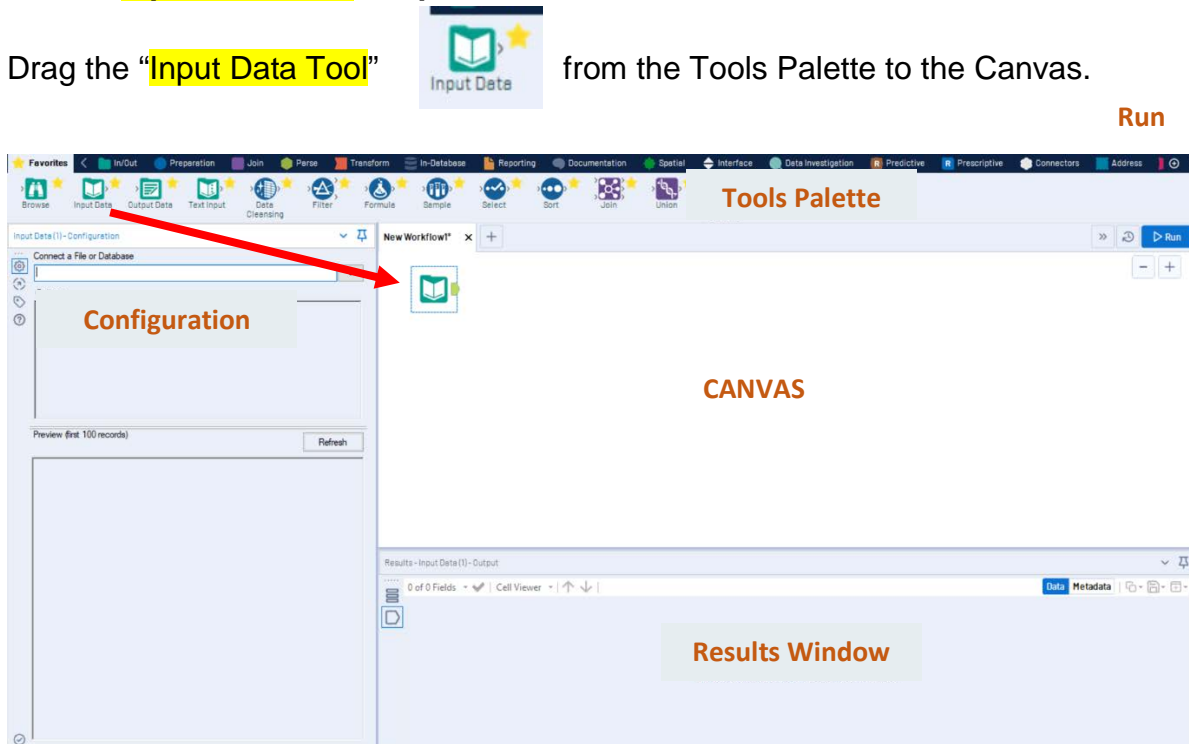
Account And Name	Balance
1110 Cash	31235
1211 Office Equip.	4125
1311 Computer Equip.	7000
2101 Accounts Payable	-7465
3100 Capital Stock	-28000
4100 Computer & Consulting Revenue	-11000
5030 Advertising Expense	3380
5040 Repairs & Maint. Expense	725

## Start Alteryx

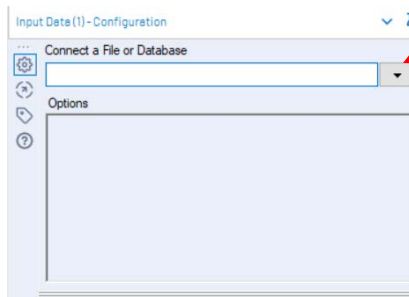
There are four major parts of the Alteryx window. The first is the Canvas, and that's where we're going to create the workflow. Second, the Tools Palette is where all the tools are stored. Third, the Configuration area is where the tool settings are modified. Lastly, the Results window shows us the result after we select "Run" to apply the changes.

### Tool 1: **Input Data Tool** – Input Excel file

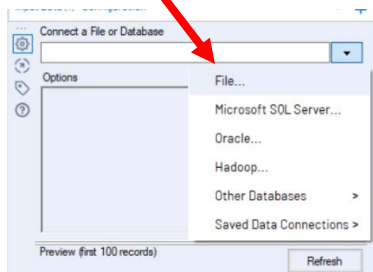
Drag the "**Input Data Tool**" from the Tools Palette to the Canvas.



In the Configuration area, select the “Connect a File or Database” drop-down arrow.

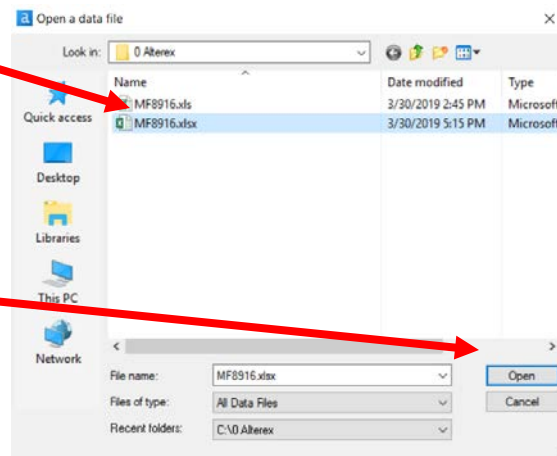


Select “File”.



Browse for the desired file and select the version with the .xlsx file extension.

Select “Open”.



Select the drop-down arrow to the right of "Balance Sheet".

Select Excel Input

☒ Select a sheet

Balance Sheet

☐ Select a named range

Select option...

☐ Import only the list of sheet names

Help Cancel OK

Select "General Journal".

Select "OK".

Select Excel Input

☒ Select a sheet

Balance Sheet

Balance Sheet

Changes in Retained Earnings

Chart of Accounts

Data for General Ledger

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General Journal

Help Cancel OK

Remember that the field names are in the fourth row.

In the Configuration area, change the number in “Start Data Import on Line” to “4”.

Name	Value
2 File Format	Microsoft Excel (*.xlsx)
3 Table or Query	'General Journals'
4 Search SubDirs	<input type="checkbox"/>
5 Output File Name as Field	No
6 First Row Contains Data	<input type="checkbox"/>
7 Start Data Import on Line	4

Preview (first 100 records) Refresh

Select “Run”.

The Results window will display the field headings and the data.

New Workflow1.yxmd x + » ↺ ▶ Run - +

MF8916.xlsx  
Table = 'General Journals'


Results - Input Data (6) - Output

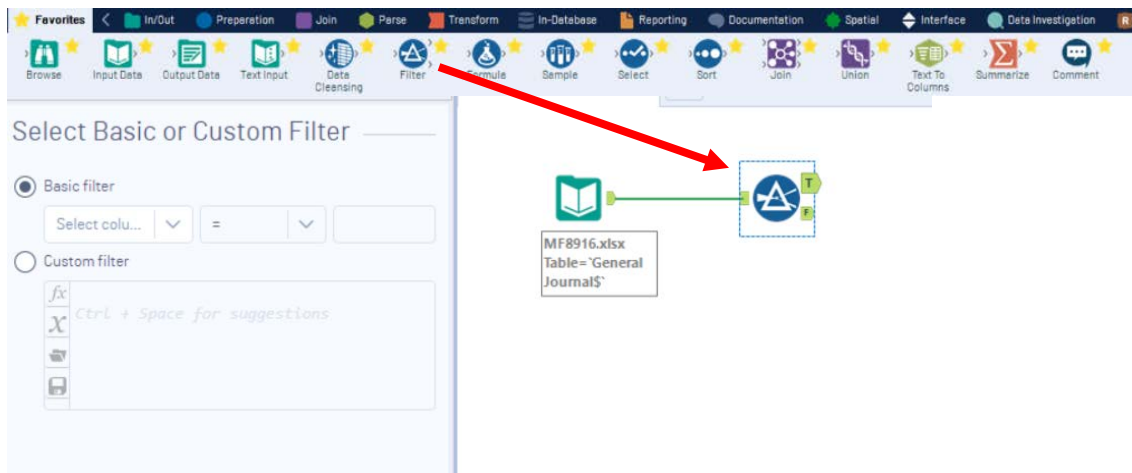
15 of 15 Fields | Cell Viewer | 203 records displayed

Record #	Transaction	Date	Account	Name	Description	Debit	Credit	Total Balance	F9	F10	F11
1	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]
2	1	2018-06-01	1110	Cash	Investment from Mark Friedman	28000	[Null]	28000	0	[Null]	[Null]
3	1	2018-06-01	3100	Capital Stock	Investment from Mark Friedman	[Null]	28000	-28000	0	[Null]	[Null]
4	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	0	0	[Null]	[Null]
5	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	0	0	[Null]	[Null]
6	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]
7	2	2018-06-01	1211	Office Equip.	Hudson equipment Invoice BC3887	4000	[Null]	4000	0	[Null]	[Null]
8	2	2018-06-01	2101	Accounts Payable	Hudson equipment Invoice BC3887	[Null]	4000	-4000	0	[Null]	[Null]
9	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	n	n	[Null]	[Null]

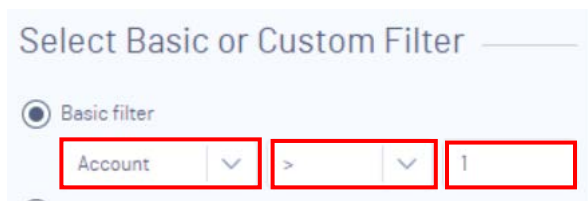
**Tool 2: Filter Tool – Exclude all rows that do not contain data**

There are several rows that do not contain an account number. We can modify the working dataset so that it includes only those rows that contain account numbers greater than one. Note that we are not deleting anything from the source data file. The working dataset will be split into two subsets. The first subset, “True”, will include all rows with account numbers greater than one. The second subset, “False”, will contain all rows with account numbers less than one.

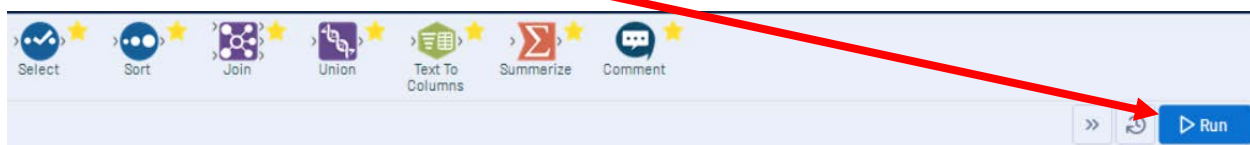
Drag the “**Filter Tool**”  from the Tools Palette to the right of the “**Input Data Tool**” on the Canvas. The two will be connected automatically. The outflow from the tool on the left is the inflow to the one on the right.



With the “**Filter Tool**” selected, the “Basic” filter in the Configuration area can be modified to filter the field “Account” for those accounts greater than “1’.



To apply the latest change, select “Run”.



We can view three different datasets in the Results window.

The records that meet the filtered conditions, “Account > 1”, are displayed as T (True).

Results - Filter(8) - Out - True

15 of 15 Fields | Cell Viewer | 16 records displayed

Record #	Transaction	Date	Account	Name	Description	Debit	Credit	Total Balance	F9	F10	F11
1	1	2018-06-01	1110	Cash	Investment from Mark Friedman	28000	[Null]	28000	0	[Null]	[Null]
2	1	2018-06-01	3100	Capital Stock	Investment from Mark Friedman	[Null]	28000	-28000	0	[Null]	[Null]
3	2	2018-06-01	1211	Office Equip.	Hudson equipment Invoice BC3887	4000	[Null]	4000	0	[Null]	[Null]
4	2	2018-06-01	2101	Accounts Payable	Hudson equipment Invoice BC3887	[Null]	4000	-4000	0	[Null]	[Null]
5	3	2018-06-01	1311	Computer Equip.	Hailey Computers 87245, ck6001	7000	[Null]	7000	0	[Null]	[Null]
6	3	2018-06-01	1110	Cash	Hailey Computers 87245, ck6001	[Null]	7000	-7000	0	[Null]	[Null]
7	4	2018-06-02	5040	Repairs & Maint. Expense	Avery Repairs, Invoice 25478	725	[Null]	725	0	[Null]	[Null]
8	4	2018-06-02	2101	Accounts Payable	Avery Repairs, Invoice 25478	[Null]	725	-725	0	[Null]	[Null]
9	5	2018-06-04	1211	Office Equip.	Scanner, Inkjet Supplies, 54, 541, 256002	125	[Null]	125	0	[Null]	[Null]

The records that do not meet the filtered conditions are displayed as F (False).

Results - Filter(8) - Out - False

15 of 15 Fields | Cell Viewer | 187 records displayed

Record #	Transaction	Date	Account	Name	Description	Debit	Credit	Total Balance	F9	F10	F11	F12	F13	F14	F15
1	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]
2	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	0	0	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]
3	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	0	0	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]
4	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]
5	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	0	0	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]
6	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	0	0	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]
7	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]
8	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	0	0	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]
9	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	0	0	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]

The data being filtered can also be displayed.

Results - Filter(8) - Input

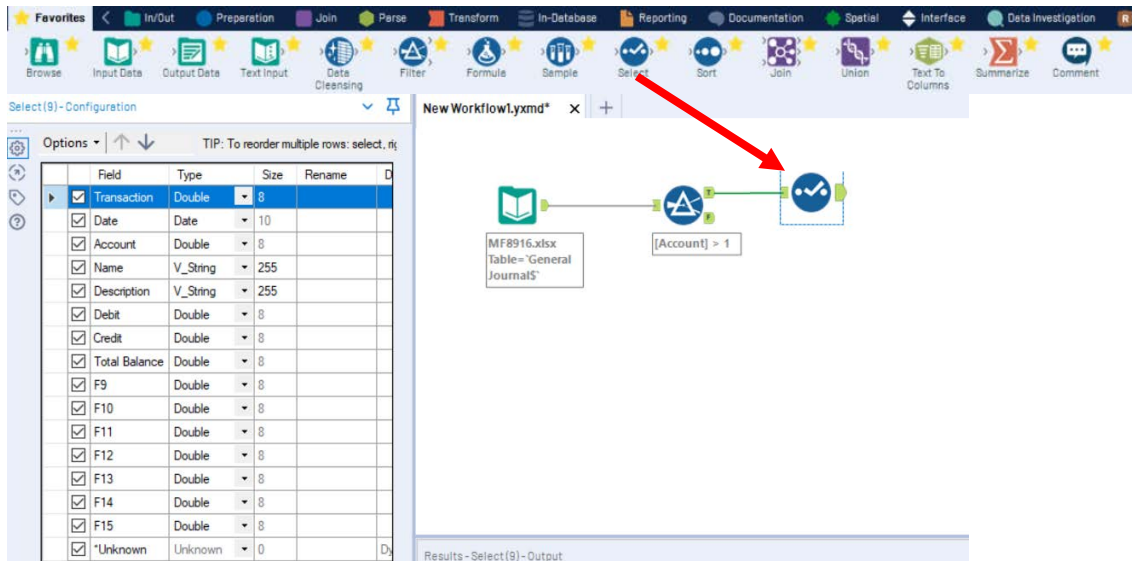
15 of 15 Fields | Cell Viewer | 203 records displayed

Record #	Transaction	Date	Account	Name	Description	Debit	Credit	Total Balance	F9	F10	F11
1	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]
2	1	2018-06-01	1110	Cash	Investment from Mark Friedman	28000	[Null]	28000	0	[Null]	[Null]
3	1	2018-06-01	3100	Capital Stock	Investment from Mark Friedman	[Null]	28000	-28000	0	[Null]	[Null]
4	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	0	0	[Null]	[Null]
5	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	0	0	[Null]	[Null]
6	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]
7	2	2018-06-01	1211	Office Equip.	Hudson equipment Invoice BC3887	4000	[Null]	4000	0	[Null]	[Null]
8	2	2018-06-01	2101	Accounts Payable	Hudson equipment Invoice BC3887	[Null]	4000	-4000	0	[Null]	[Null]
9	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	[Null]	0	0	[Null]	[Null]

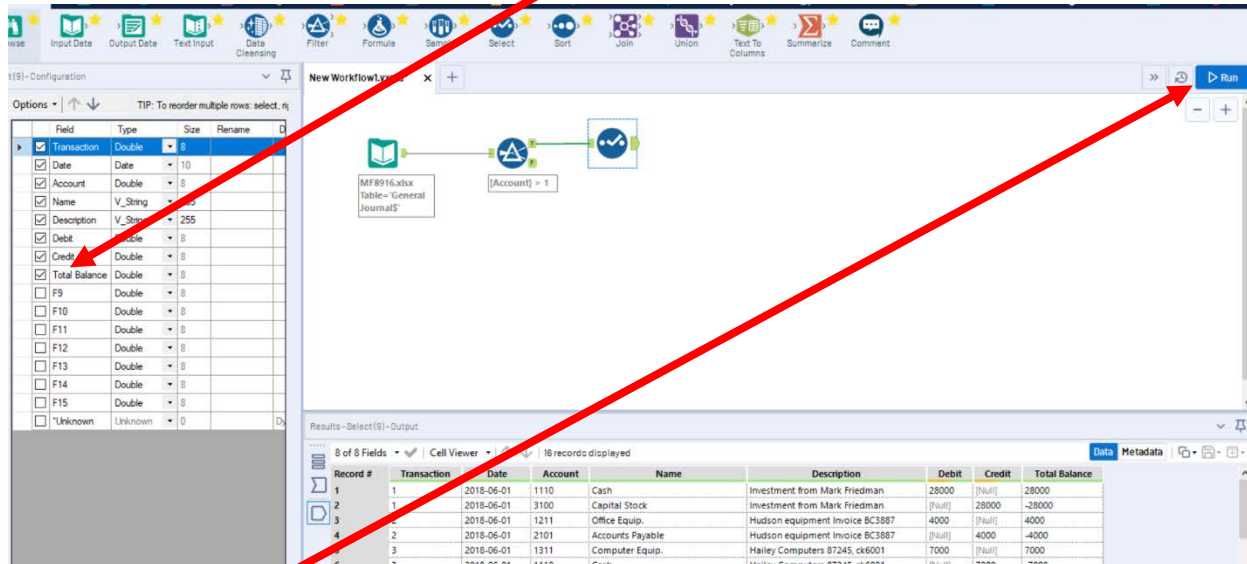


**Tool 3: Select Tool – Remove fields that contain no data, from F8 to F15**

Drag the **"Select Tool"** from the Tools Palette to the True output of the **"Filter Tool"** on the Canvas. The two will be connected automatically.



Remove the extra fields by unchecking them.




Select "Run".

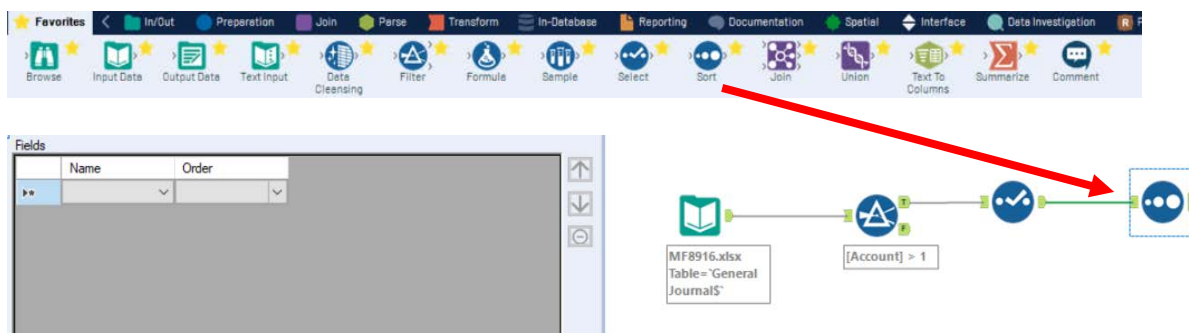


**Tool 4: Select Tool – Sort by “Account” and then “Transaction”**

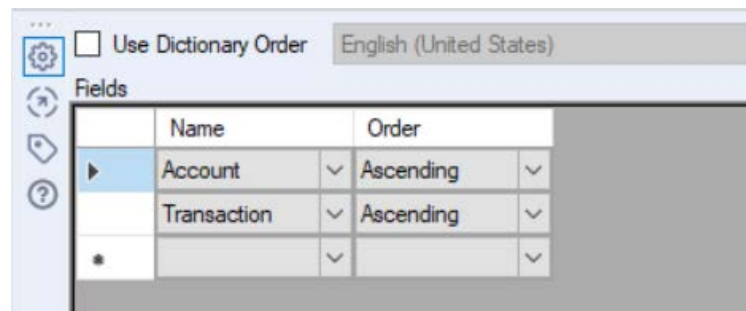
Notice that the original data from Excel had a hidden column “**Total Balance**” that contained the following formula: “Debits – Credits”.

The data is displayed as it was extracted from the source document. We want to have the data in “Account” order and subsequently in “Transaction” order.

Drag the “**Sort Tool**”  from the Tools Palette to the right of the “**Select Tool**” on the Canvas. The two will be connected automatically. The outflow from the tool on the left is the inflow to the one on the right.



Change the sort configuration of “**Account**” and “**Transaction**” to “**Ascending**”.



Select “Run”.

Results - Sort (11) - Output

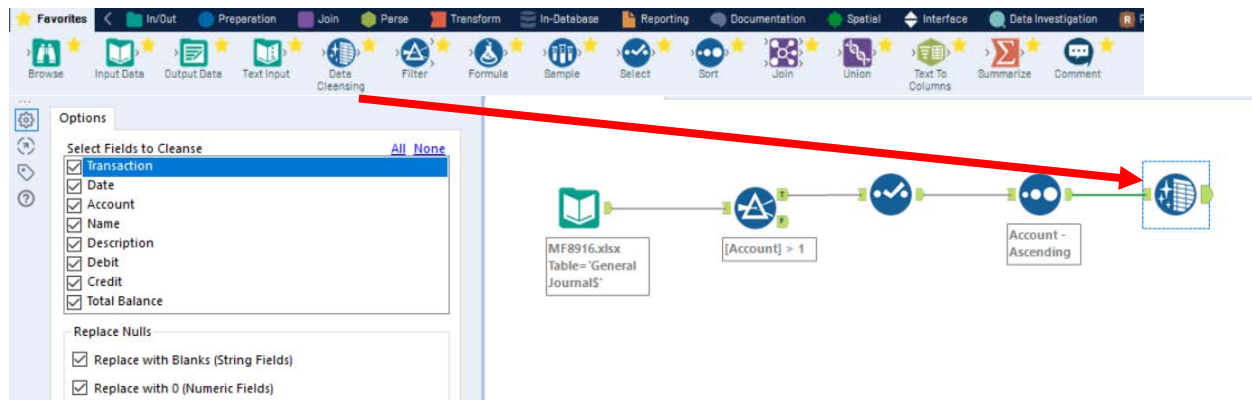
8 of 8 Fields | Cell Viewer | 16 records displayed

Record #	Transaction	Date	Account	Name	Description	Debit	Credit	Total Balance
1	1	2018-06-01	1110	Cash	Investment from Mark Friedman	28000	[Null]	28000
2	3	2018-06-01	1110	Cash	Hailey Computers 87245, ck6001	[Null]	7000	-7000
3	5	2018-06-04	1110	Cash	Scanner, Jake Supplies, 54-541 ck6002	[Null]	125	-125
4	7	2018-06-08	1110	Cash	Pd A/p ck6003	[Null]	640	-640
5	8	2018-06-14	1110	Cash	Services performed by Lucas Pictures	11000	[Null]	11000
6	2	2018-06-01	1211	Office Equip.	Hudson equipment Invoice BC3887	4000	[Null]	4000
7	5	2018-06-04	1211	Office Equip.	Scanner, Jake Supplies, 54-541 ck6002	125	[Null]	125
8	3	2018-06-01	1311	Computer Equip.	Hailey Computers 87245, ck6001	7000	[Null]	7000
9	2	2018-06-01	2101	Accounts Payable	Hudson equipment Invoice BC3887	[Null]	4000	-4000

**Tool 5: Data Cleansing Tool – Replace “Null” with “0”**

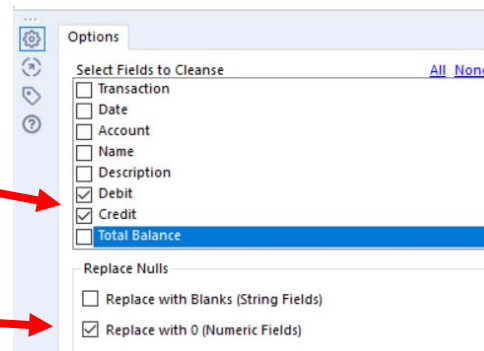
There are cells in the “Debit” and “Credit” columns that are coded as “Null”.

Drag the “**Data Cleansing Tool**” from the Tools Palette to the right of the “**Sort Tool**” on the Canvas. The two will be connected automatically. The outflow from the tool on the left is the inflow to the one on the right.



Change the configuration, leaving only “Debit” and “Credit” checked.

Select “Replace with 0” on the “Replace Nulls” option.



Select “Run”.

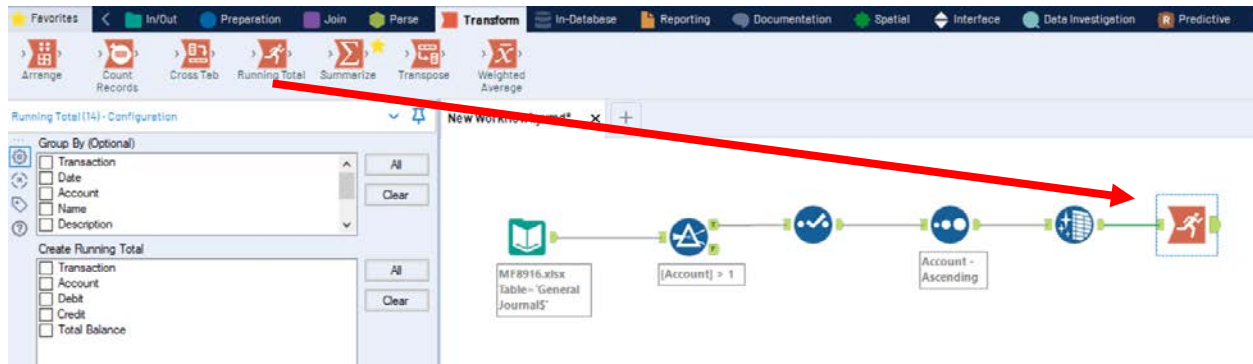
Record #	Transaction	Date	Account	Name	Description	Debit	Credit	Total Balance
1	1	2018-06-01	1110	Cash	Investment from Mark Friedman	28000	0	28000
2	3	2018-06-01	1110	Cash	Hailey Computers 87245, ck6001	0	7000	-7000
3	5	2018-06-04	1110	Cash	Scanner, Jake Supplies, 54-541 ck6002	0	125	-125
4	7	2018-06-08	1110	Cash	Pd A/p ck6003	0	640	-640
5	8	2018-06-14	1110	Cash	Services performed by Lucas Pictures	11000	0	11000
6	2	2018-06-01	1211	Office Equip.	Hudson equipment Invoice BC3887	4000	0	4000
7	5	2018-06-04	1211	Office Equip.	Scanner, Jake Supplies, 54-541 ck6002	125	0	125
8	3	2018-06-01	1311	Computer Equip.	Hailey Computers 87245, ck6001	7000	0	7000
9	2	2018-06-01	2101	Accounts Payable	Hudson equipment Invoice BC3887	0	4000	4000

**Tool 6: Running Total Tool – Create a “Running Total”**

The General Ledger has a running balance within each account.

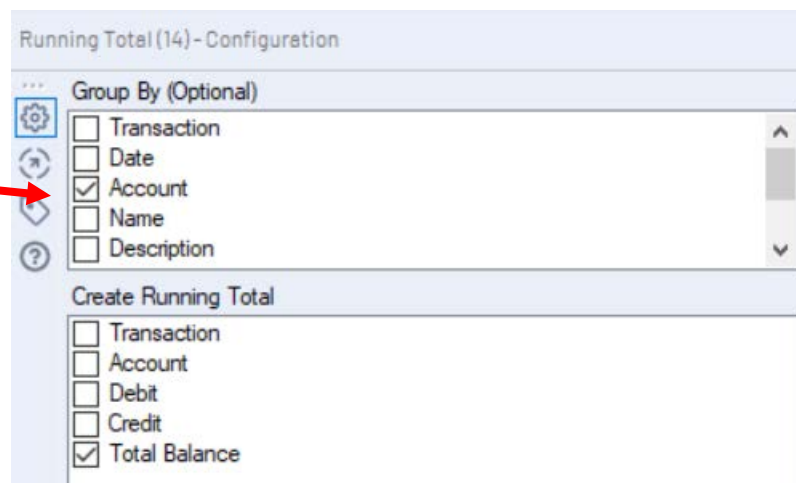
Drag the **“Running Total Tool”** from the Transform tab to the right of the **“Data Cleaning Tool”** on the Canvas. The two will be connected automatically. The outflow from the tool on the left is the inflow to the one on the right.

Add a **“Running Total Tool”** from the Transform tab.



Change the configuration of “Group By” to “Account”.

Select “Total Balance” on “Create Running Total”.



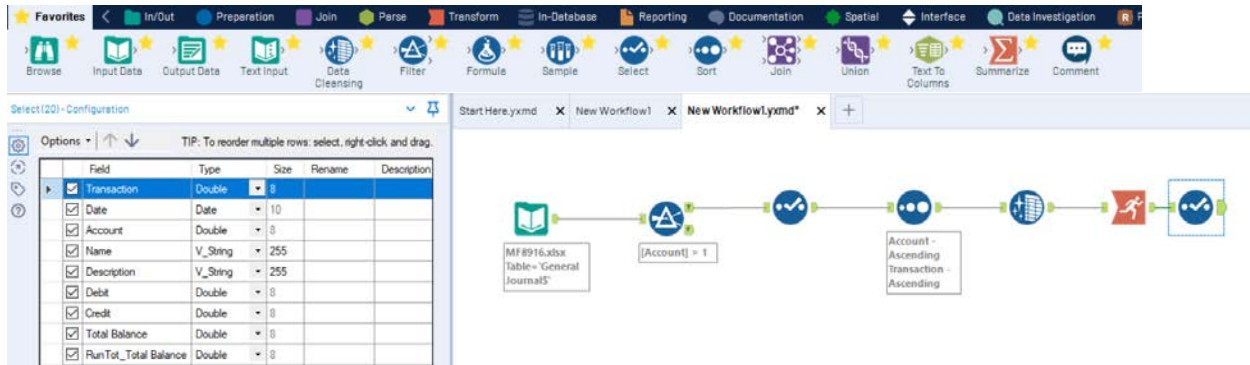
Select “Run”.

9 of 9 Fields | Cell Viewer | 16 records displayed

Record #	Transaction	Date	Account	Name	Description	Debit	Credit	Total Balance	RunTot_Total Balance
1	1	2018-06-01	1110	Cash	Investment from Mark Friedman	28000	0	28000	28000
2	3	2018-06-01	1110	Cash	Hailey Computers 87245, ck6001	0	7000	-7000	21000
3	5	2018-06-04	1110	Cash	Scanner, Jake Supplies, 54-541 ck6002	0	125	-125	20875
4	7	2018-06-08	1110	Cash	Pd A/p ck6003	0	640	-640	20235
5	8	2018-06-14	1110	Cash	Services performed by Lucas Pictures	11000	0	11000	31235
6	2	2018-06-01	1211	Office Equip.	Hudson equipment Invoice BC3887	4000	0	4000	4000
7	5	2018-06-04	1211	Office Equip.	Scanner, Jake Supplies, 54-541 ck6002	125	0	125	4125
8	3	2018-06-01	1311	Computer Equip.	Hailey Computers 87245, ck6001	7000	0	7000	7000
9	2	2018-06-01	2101	Accounts Payable	Hudson equipment Invoice BC3887	0	4000	-4000	4000

**Tool 7: Select Tool Display – “Account” and “Name” in front of “Transaction”**

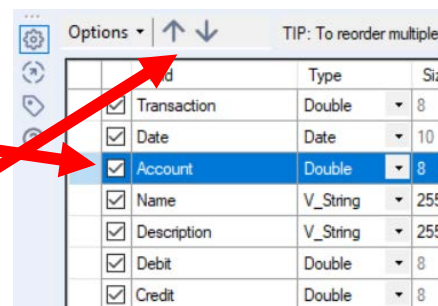
Drag another “**Select Tool**” to the right of the “**Running Total Tool**” on the Canvas. The two will be connected automatically. The outflow from the tool on the left is the inflow to the one on the right.



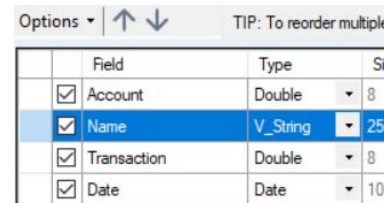
Rearrange the fields in the Configuration area.

Select the field “Account”.

Click on the up arrow twice to move “Account” to the first position.



Move the field “Name” to the second position.



Select “Run”.

9 of 9 Fields | Cell Viewer | 16 records displayed

Record #	Account	Name	Transaction	Date	Description	Debit	Credit	Total Balance	RunTot_Total Balance
1	1110	Cash	1	2018-06-01	Investment from Mark Friedman	28000	0	28000	28000
2	1110	Cash	3	2018-06-01	Hailey Computers 87245, ck6001	0	7000	-7000	21000
3	1110	Cash	5	2018-06-04	Scanner, Jake Supplies, 54-541 ck6002	0	125	-125	20875
4	1110	Cash	7	2018-06-08	Pd A/p ck6003	0	640	-640	20235
5	1110	Cash	8	2018-06-14	Services performed by Lucas Pictures	11000	0	11000	31235
6	1211	Office Equip.	2	2018-06-01	Hudson equipment Invoice BC3887	4000	0	4000	4000
7	1211	Office Equip.	5	2018-06-04	Scanner, Jake Supplies, 54-541 ck6002	125	0	125	4125
8	1311	Computer Equip.	3	2018-06-01	Hailey Computers 87245, ck6001	7000	0	7000	7000
9	2101	Accounts Payable	2	2018-06-01	Hudson equipment Invoice BC3887	0	4000	4000	4000



Remove the field "Total Balance" from the output by unchecking it.



Options ▾ | ↑ ↓ | TIP: To reorder multiple fields, click and drag the field name.

	Field	Type	Size
<input checked="" type="checkbox"/>	Account	Double	8
<input checked="" type="checkbox"/>	Name	V_String	255
<input checked="" type="checkbox"/>	Transaction	Double	8
<input checked="" type="checkbox"/>	Date	Date	10
<input checked="" type="checkbox"/>	Description	V_String	255
<input checked="" type="checkbox"/>	Debit	Double	8
<input checked="" type="checkbox"/>	Credit	Double	8
<input type="checkbox"/>	Total Balance	Double	8
<input checked="" type="checkbox"/>	RunTot_Total Balance	Double	8
<input checked="" type="checkbox"/>	*Unknown	Unknown	0

Select "Run".

File Explorer ▾ | Cell Viewer ▾ | ↑ ↓ | 16 records displayed | Data Metadata | [Icons]

Record #	Account	Name	Transaction	Date	Description	Debit	Credit	RunTot_Total Balance
1	1110	Cash	1	2018-06-01	Investment from Mark Friedman	28000	0	28000
2	1110	Cash	3	2018-06-01	Hailey Computers 87245, ck6001	0	7000	21000
3	1110	Cash	5	2018-06-04	Scanner, Jake Supplies, 54-541 ck6002	0	125	20875
4	1110	Cash	7	2018-06-08	Pd A/p ck6003	0	640	20235
5	1110	Cash	8	2018-06-14	Services performed by Lucas Pictures	11000	0	31235
6	1211	Office Equip.	2	2018-06-01	Hudson equipment Invoice BC3887	4000	0	4000
7	1211	Office Equip.	5	2018-06-04	Scanner, Jake Supplies, 54-541 ck6002	125	0	4125
8	1311	Computer Equip.	3	2018-06-01	Hailey Computers 87245, ck6001	7000	0	7000
9	1101	Accounts Payable	2	2018-06-01	Hudson equipment Invoice BC3887	0	4000	4000

Change the name of the field “Run Tot\_Total Balance” to “Running Balance”.

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

	Field	Type	Size	Rename	Describe
<input checked="" type="checkbox"/>	Account	Double	8		
<input checked="" type="checkbox"/>	Name	V_String	255		
<input checked="" type="checkbox"/>	Transaction	Double	8		
<input checked="" type="checkbox"/>	Date	Date	10		
<input checked="" type="checkbox"/>	Description	V_String	255		
<input checked="" type="checkbox"/>	Debit	Double	8		
<input checked="" type="checkbox"/>	Credit	Double	8		
<input type="checkbox"/>	Total Balance	Double	8		
<input checked="" type="checkbox"/>	RunTot_Total Balance	Double	8	Running Balance	
<input checked="" type="checkbox"/>	*Unknown	Unknown	0		Dynamic

Select “Run”.

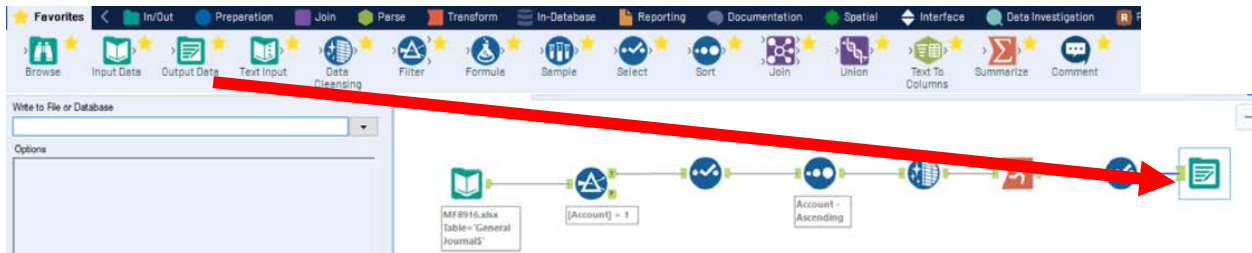
8 of 8 Fields | Cell Viewer | 16 records displayed

Record #	Account	Name	Transaction	Date	Description	Debit	Credit	Running Balance
1	1110	Cash	1	2018-06-01	Investment from Mark Friedman	28000	0	28000
2	1110	Cash	3	2018-06-01	Hailey Computers 87245, ck6001	0	7000	21000
3	1110	Cash	5	2018-06-04	Scanner, Jake Supplies, 54-541 ck6002	0	125	20875
4	1110	Cash	7	2018-06-08	Pd A/p ck6003	0	640	20235
5	1110	Cash	8	2018-06-14	Services performed by Lucas Pictures	11000	0	31235
6	1211	Office Equip.	2	2018-06-01	Hudson equipment Invoice BC3887	4000	0	4000
7	1211	Office Equip.	5	2018-06-04	Scanner, Jake Supplies, 54-541 ck6002	125	0	4125
8	1311	Computer Equip.	3	2018-06-01	Hailey Computers 87245, ck6001	7000	0	7000
9	2101	Accounts Payable	2	2018-06-01	Hudson equipment Invoice BC3887	0	4000	4000



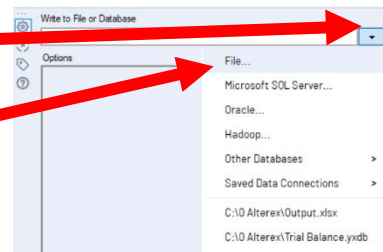
**Tool 8: Select Tool Output Data Tool:** We now want to export the cleaned and assembled General Ledger to Excel.

Drag an “**Output Data Tool**” to the right of the “**Select Tool**” on the Canvas. The two will be connected automatically. The outflow from the tool on the left is the inflow to the one on the right.



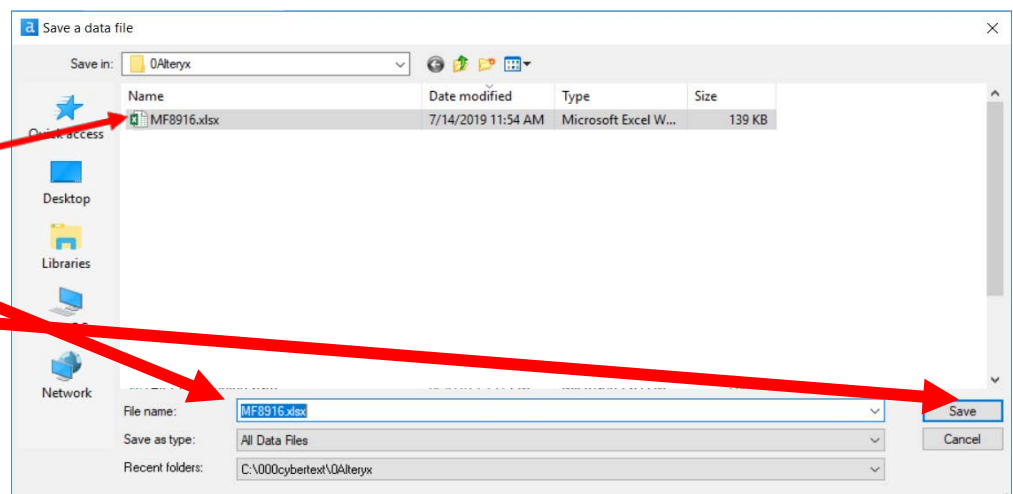
In the output Configuration area,  
select the drop-down arrow.

Select “File”.

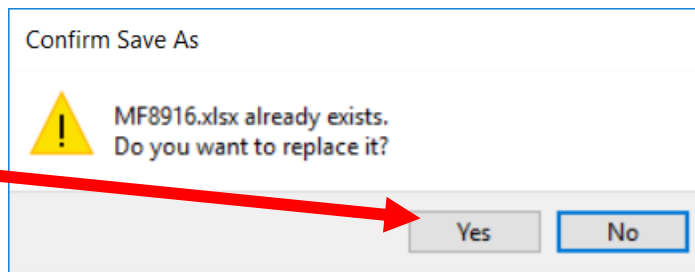


Select the required file  
name.

Select “Save”.

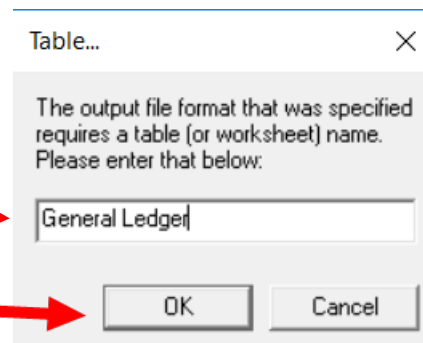


Click on "Yes" to confirm  
"Save".



Enter the "Sheet Name".

Select "OK".



Select "Run".

Open the file in Excel.

	A	B	C	D	E	F	G	H	I
1	Account	Name	Transaction	Date	Description	Debit	Credit	Running Balance	
2	1110	Cash	1	6/1/2018	Investmen	28000	0	28000	
3	1110	Cash	3	6/1/2018	Hailey Com	0	7000	21000	
4	1110	Cash	5	6/4/2018	Scanner, Ja	0	125	20875	
5	1110	Cash	7	6/8/2018	Pd A/p ck6	0	640	20235	
6	1110	Cash	8	#####	Services pe	11000	0	31235	
7	1211	Office Equ	2	6/1/2018	Hudson eq	4000	0	4000	
8	1211	Office Equ	5	6/4/2018	Scanner, Ja	125	0	4125	
9	1311	Computer	3	6/1/2018	Hailey Com	7000	0	7000	
10	2101	Accounts F	2	6/1/2018	Hudson eq	0	4000	-4000	
11	2101	Accounts F	4	6/2/2018	Avery Repa	0	725	-4725	
12	2101	Accounts F	6	6/8/2018	Zac Advert	0	3380	-8105	
13	2101	Accounts F	7	6/8/2018	Pd A/p ck6	640	0	-7465	
14	3100	Capital Stc	1	6/1/2018	Investmen	0	28000	-28000	
15	4100	Computer	8	#####	Services pe	0	11000	-11000	
16	5030	Advertising	6	6/8/2018	Zac Advert	3380	0	3380	
17	5040	Repairs & I	4	6/2/2018	Avery Repa	725	0	725	
18									

Change the columns' widths and formats.

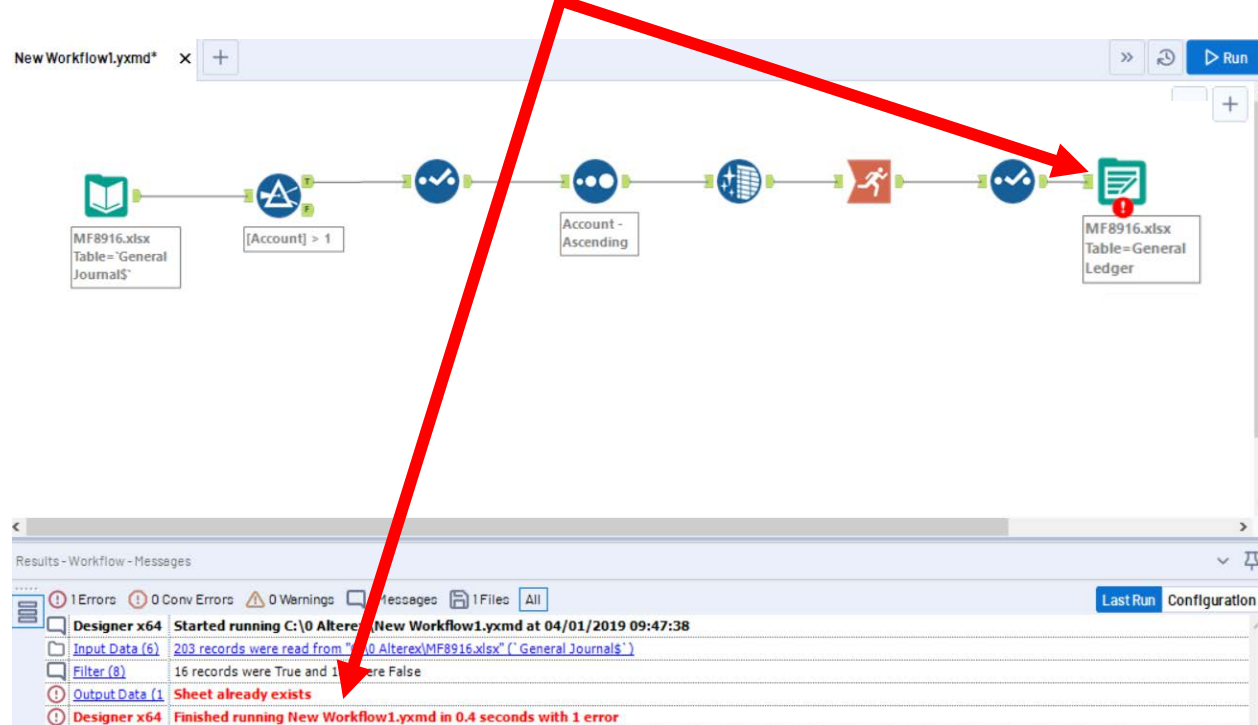
	A	B	C	D	E	F	G	H
1	Account	Name	Transaction	Date	Description	Debit	Credit	Running Balance
2	1110	Cash	1	6/1/2018	Investment from Mark Friedman	\$28,000.00	\$ -	\$ 28,000.00
3	1110	Cash	3	6/1/2018	Hailey Computers 87245, ck6001	\$ -	\$ 7,000.00	\$ 21,000.00
4	1110	Cash	5	6/4/2018	Scanner, Jake Supplies, 54-541 ck6002	\$ -	\$ 125.00	\$ 20,875.00
5	1110	Cash	7	6/8/2018	Pd A/p ck6003	\$ -	\$ 640.00	\$ 20,235.00
6	1110	Cash	8	6/14/2018	Services performed by Lucas Pictures	\$11,000.00	\$ -	\$ 31,235.00
7	1211	Office Equip.	2	6/1/2018	Hudson equipment Invoice BC3887	\$ 4,000.00	\$ -	\$ 4,000.00
8	1211	Office Equip.	5	6/4/2018	Scanner, Jake Supplies, 54-541 ck6002	\$ 125.00	\$ -	\$ 4,125.00
9	1311	Computer Equip.	3	6/1/2018	Hailey Computers 87245, ck6001	\$ 7,000.00	\$ -	\$ 7,000.00
10	2101	Accounts Payable	2	6/1/2018	Hudson equipment Invoice BC3887	\$ -	\$ 4,000.00	\$ (4,000.00)
11	2101	Accounts Payable	4	6/2/2018	Avery Repairs, Invoice 25478	\$ -	\$ 725.00	\$ (4,725.00)
12	2101	Accounts Payable	6	6/8/2018	Zac Advertising,23547	\$ -	\$ 3,380.00	\$ (8,105.00)
13	2101	Accounts Payable	7	6/8/2018	Pd A/p ck6003	\$ 640.00	\$ -	\$ (7,465.00)
14	3100	Capital Stock	1	6/1/2018	Investment from Mark Friedman	\$ -	\$28,000.00	\$ (28,000.00)
15	4100	Computer & Consulting Revenue	8	6/14/2018	Services performed by Lucas Pictures	\$ -	\$11,000.00	\$ (11,000.00)
16	5030	Advertising Expense	6	6/8/2018	Zac Advertising,23547	\$ 3,380.00	\$ -	\$ 3,380.00
17	5040	Repairs & Maint. Expense	4	6/2/2018	Avery Repairs, Invoice 25478	\$ 725.00	\$ -	\$ 725.00

And, the General Ledger has been created successfully.

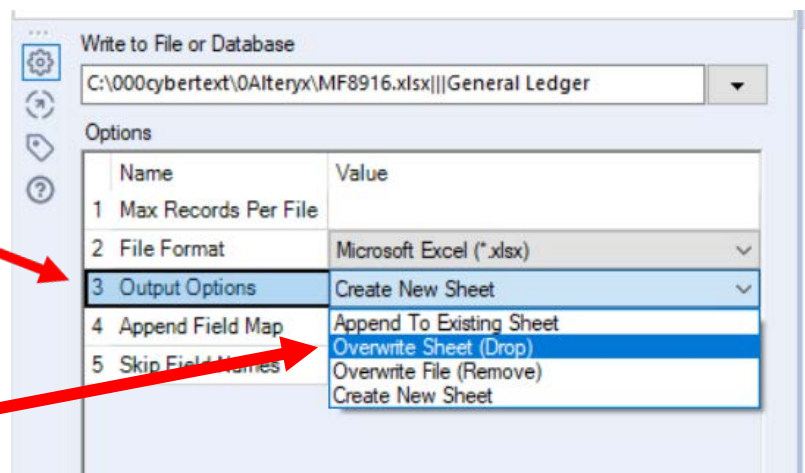
“Save” and “Close” the Excel file.

Return to Alteryx and select “Run” for the second time.

But, there is an error! The sheet already exists.



In the output Configuration area,  
select "Output Options".



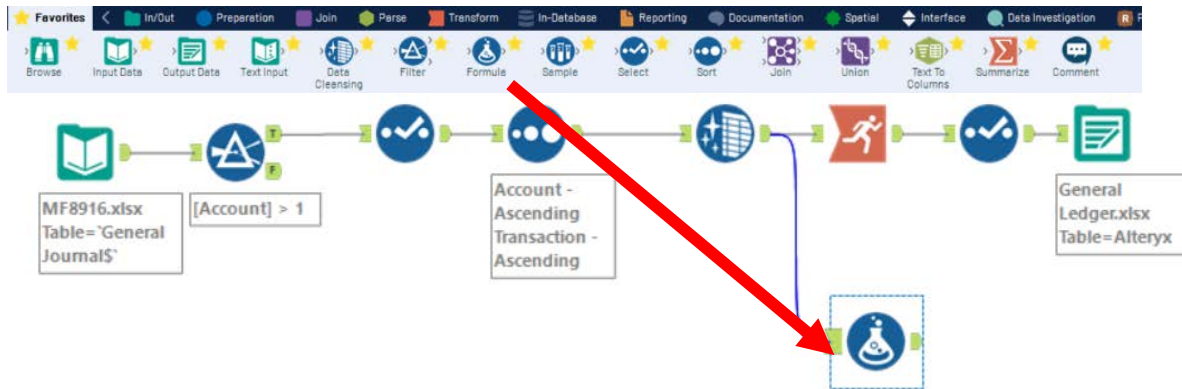
Select "Overwrite Sheet"  
(which drops the old sheet).

Select "Run".

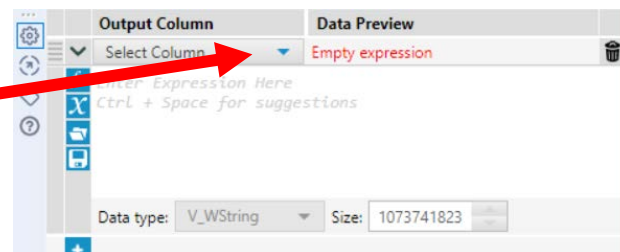
The "Unadjusted Trial Balance" will summarize the "Total Balance" by account number with the account name attached for clarity.

**Tool 9: Select Tool Formula:** We now want to combine the fields “Account” and “Name”. “Account” is a numeric field, while “Name” is a string, and we would like to have two spaces between the fields.

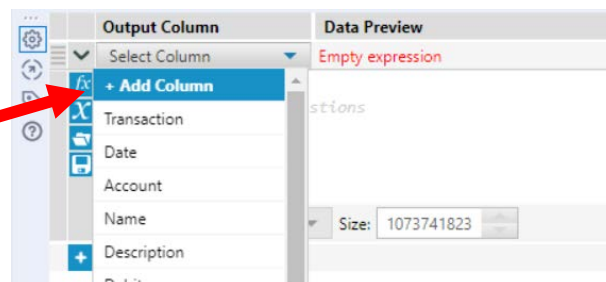
Drag a **Formula Tool** under the **Running Balance Tool** branching from the **Cleansing Tool** on the Canvas. The two will be connected automatically. The outflow from the tool on the left is the inflow to the one on the right.



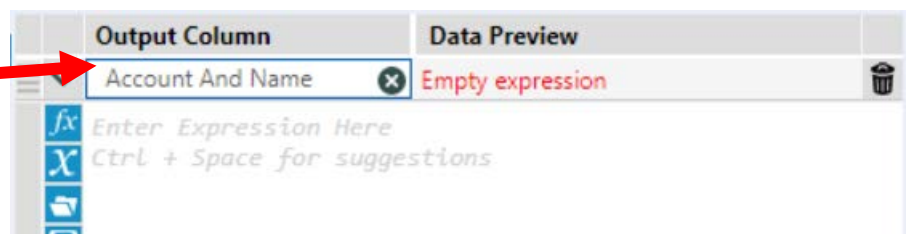
In the output Configuration area, click on the drop-down arrow of “Select Column”.



Select “Add Column”.

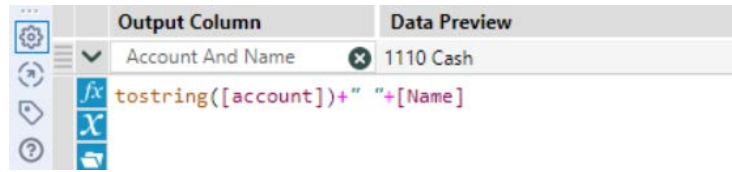


Type “Account And Name”.



Type the following formula  
`tostring([account])+ " "+[Name]`

Select "Run".




Results - Formula (19) - Output

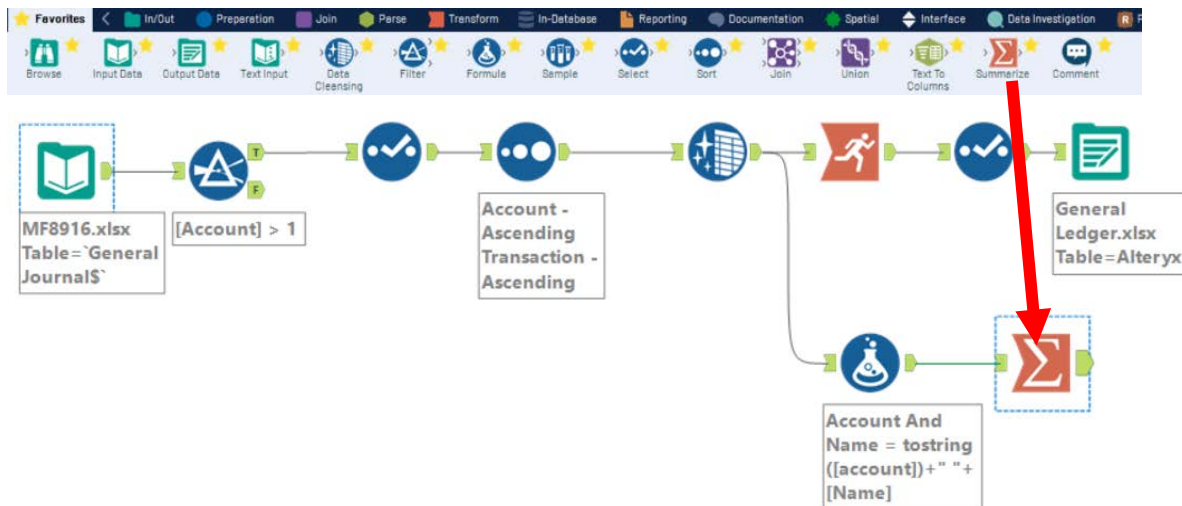
9 of 9 Fields | Cell Viewer | 16 records displayed

Record #	Transaction	Date	Account	Name	Description	Debit	Credit	Total Balance	Account And Name
8	3	2018-06-01	1311	Computer Equip.	Hailey Computers 87245, ck6001	7000	0	7000	1311 Computer Equip.
9	2	2018-06-01	2101	Accounts Payable	Hudson equipment Invoice BC3887	0	4000	-4000	2101 Accounts Payable
10	4	2018-06-02	2101	Accounts Payable	Avery Repairs, Invoice 25478	0	725	-725	2101 Accounts Payable
11	6	2018-06-08	2101	Accounts Payable	Zac Advertising, 23547	0	3380	-3380	2101 Accounts Payable
12	7	2018-06-08	2101	Accounts Payable	Pd A/p ck6003	640	0	640	2101 Accounts Payable
13	1	2018-06-01	3100	Capital Stock	Investment from Mark Friedman	0	28000	-28000	3100 Capital Stock
14	8	2018-06-14	4100	Computer & Consulting Revenue	Services performed by Lucus Pictures	0	11000	-11000	4100 Computer & Consulting Re
15	6	2018-06-08	5030	Advertising Expense	Zac Advertising, 23547	3380	0	3380	5030 Advertising Expense
16	4	2018-06-02	5040	Repairs & Maint Expense	Avery Repairs Invoice 25478	725	0	725	5040 Repairs & Maint Expense



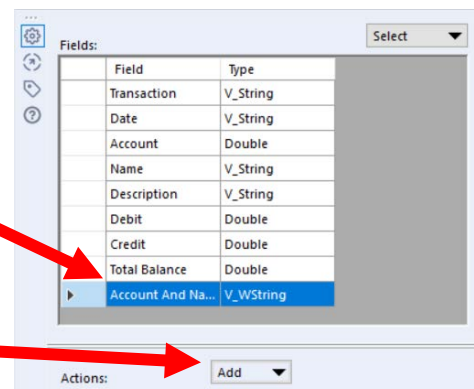
**Tool 10: Select Tool Summary:** We now want to create an “Unadjusted Trial Balance” by calculating the account balances.

Drag a “**Summary Tool**”  to the right of the “**Cleansing tool**” on the Canvas. The two will be connected automatically. The outflow from the tool on the left is the inflow to the one on the right.

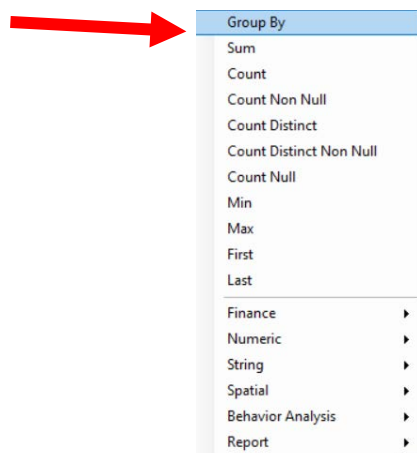


In the output Configuration area, select “Account And Name”.

Click on the drop-down arrow on “Actions” and select “Add”.

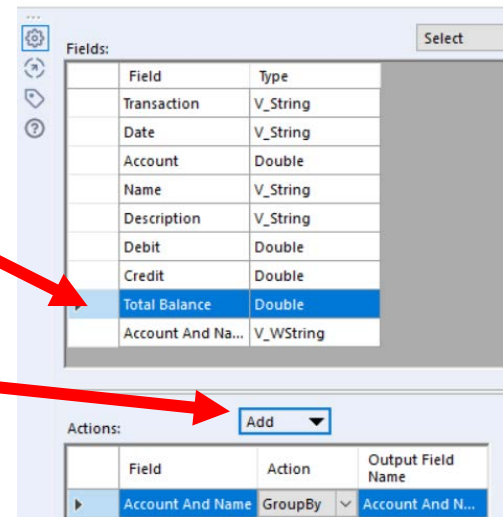


Select “Group By”.

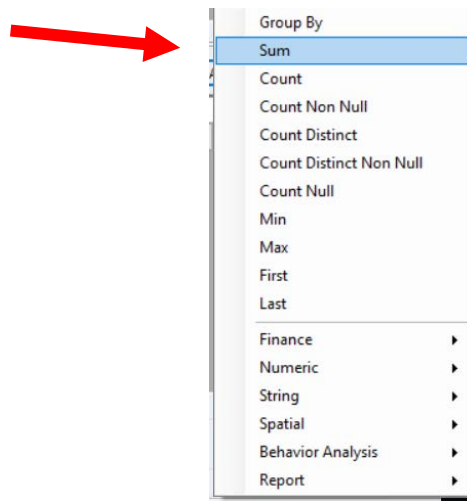


Select "Total Balance".

Click on the drop-down arrow on "Actions" and select "Add".



Select "Sum".



Select "Run".

Select the output of the "Summary Tool".




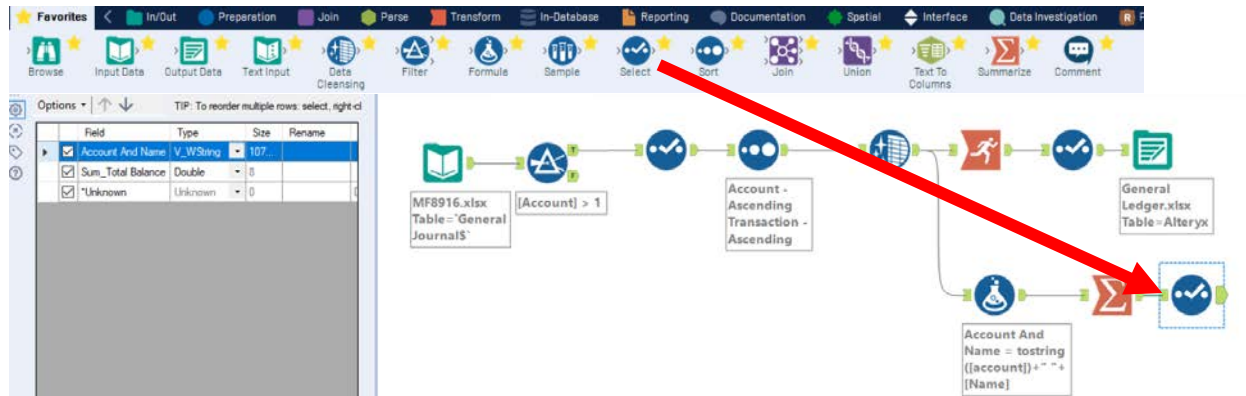
And, the "Unadjusted Trial Balance" is created.

2 of 2 Fields | Cell Viewer | 8 records displayed

Record #	Account And Name	Sum_Total Balance
1	1110 Cash	31235
2	1211 Office Equip.	4125
3	1311 Computer Equip.	7000
4	2101 Accounts Payable	-7465
5	3100 Capital Stock	-28000
6	4100 Computer & Consulting Revenue	-11000
7	5030 Advertising Expense	3380
8	5040 Repairs & Maint. Expense	725

**Tool 11: Select Tool – Rename a field**

Drag another “**Select Tool**”  to the right of the “**Summary Tool**” on the Canvas. The two will be connected automatically. The outflow from the tool on the left is the inflow to the one on the right.



Rename the “Sum\_Total Balance” in the Configuration area to “Balance”.

Select(17) - Configuration

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

	Field	Type	Size	Rename	Description
<input checked="" type="checkbox"/>	Account	Double	8		
<input checked="" type="checkbox"/>	Sum_Total Balance	Double	8	Balance	
<input checked="" type="checkbox"/>	*Unknown	Unknown	0		Dynamic or ...

Select “Run”.

Select the output of the “**Select Tool**”.




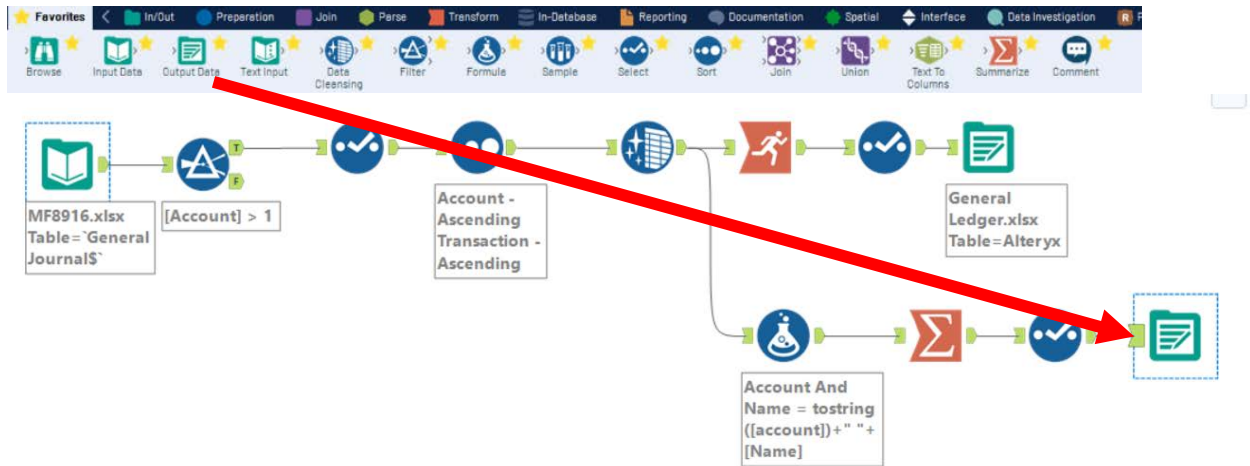
And, the Unadjusted Trial Balance is created.

2 of 2 Fields | Cell Viewer | 8 records displayed

Record #	Account And Name	Balance
1	1110 Cash	31235
2	1211 Office Equip.	4125
3	1311 Computer Equip.	7000
4	2101 Accounts Payable	-7465
5	3100 Capital Stock	-28000
6	4100 Computer & Consulting Revenue	-11000
7	5030 Advertising Expense	3380
8	5040 Repairs & Maint. Expense	725

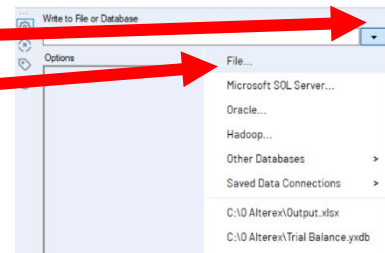
**Tool 12: Select Output Data Tool:** We now want to export the “Unadjusted Trial Balance” to Excel.

Drag an “**Output Data Tool**”  to the right of the “**Select Tool**” on the Canvas. The two will be connected automatically. The outflow from the tool on the left is the inflow to the one on the right.



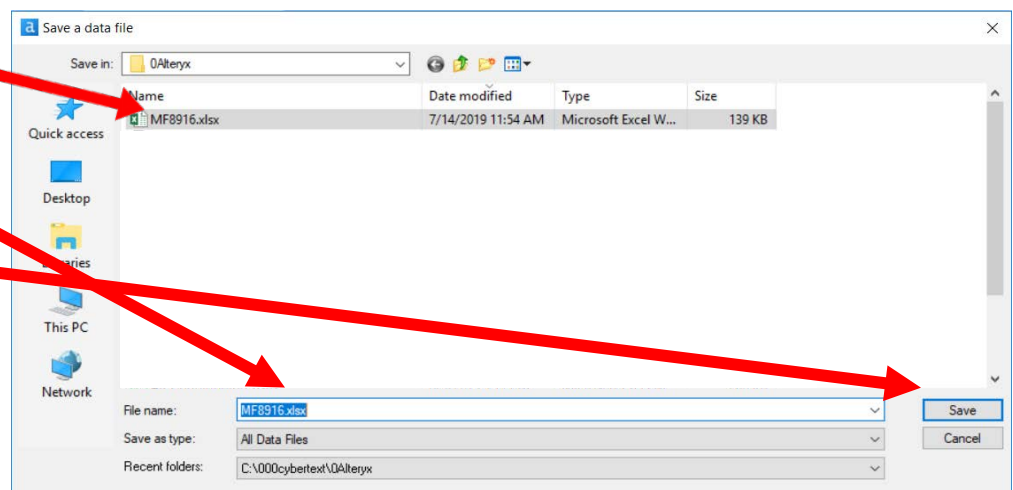
In the output Configuration area, select the drop-down arrow.

Select “File”.

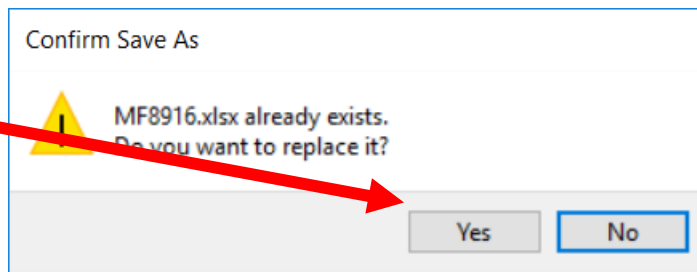


Select the required file name.

Select “Save”.

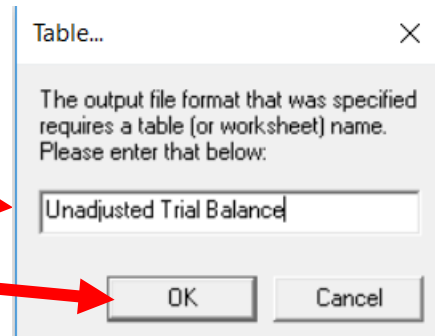


Click on "Yes" to confirm  
"Save".



Enter the "Sheet Name".

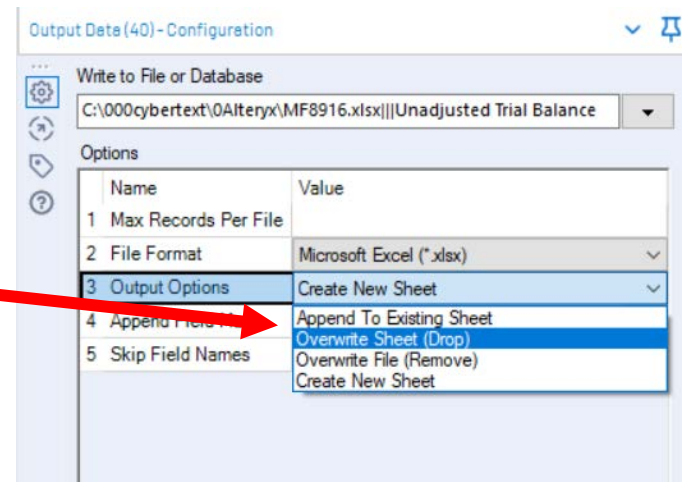
Select "OK".



Select "Run".

In the output Configuration area,  
Select “Output Options”.

Select “Overwrite Sheet” (which drops the  
old Sheet).



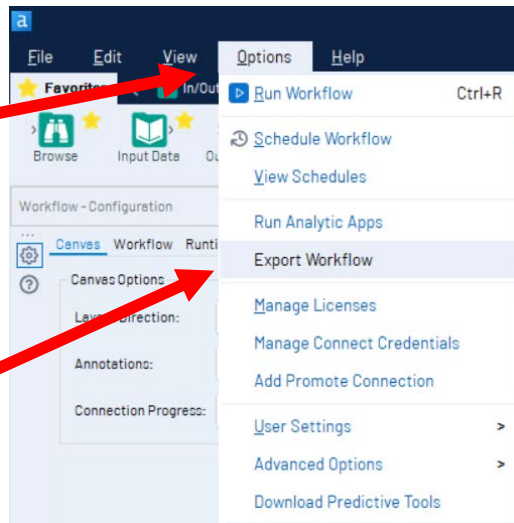
Select “Run”.

	A	B	C	D	E	F	G
1	Account And Name	Balance					
2	1110 Cash	31235					
3	1211 Office Equip.	4125					
4	1311 Computer Equip.	7000					
5	2101 Accounts Payable	-7465					
6	3100 Capital Stock	-28000					
7	4100 Computer & Consulting Revenue	-11000					
8	5030 Advertising Expense	3380					
9	5040 Repairs & Maint. Expense	725					
10							
11							
12							



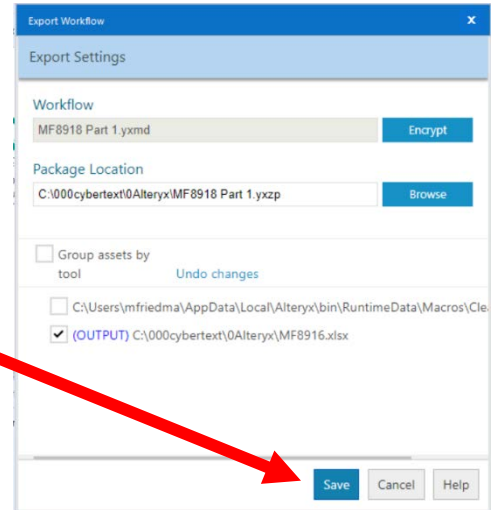
To export the workflow and the related input files so that you can send the files to someone else:

Select "Options"

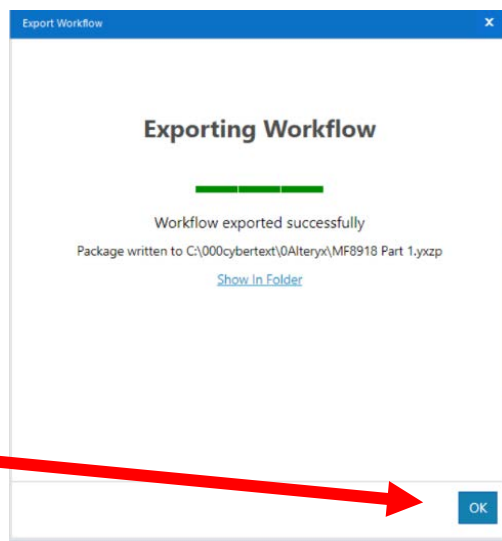


Select "Export Workflow"

Select "Save"



Select "OK"

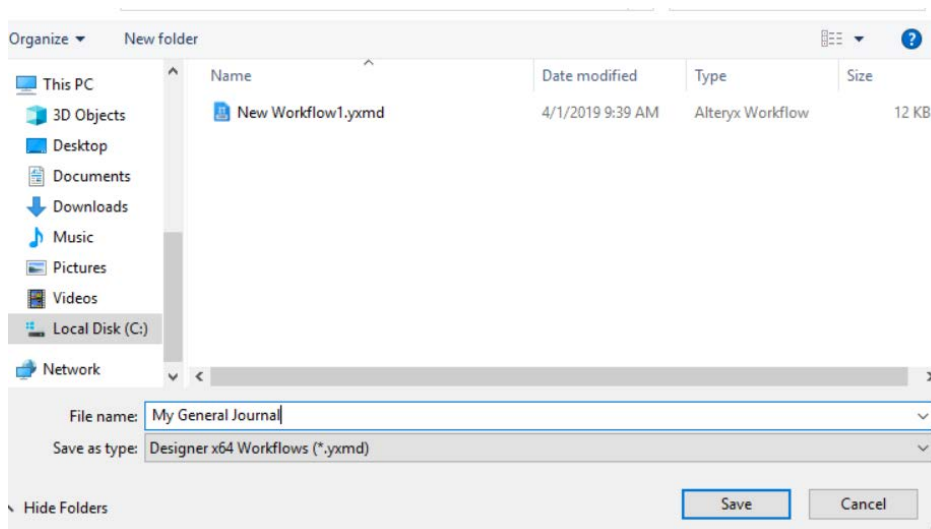
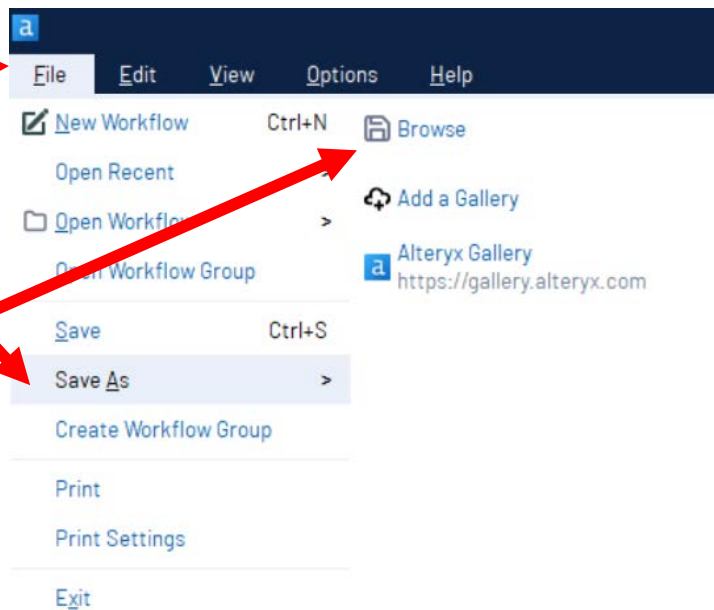


Save the workflow.

Select "File".

Select "Save As".

Select "Browse".



Select "Save".  
And close Alteryx.