Alteryx Part 2

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

The **first eight journal entries** for A Byte of Accounting are stored on an Excel sheet named General Journal and were extracted, transformed and loaded in Part 1.

	A	в	с	D	E	F	G	н	1
1				A Byte of	Accounting, Inc.				
2				Gen	eral Journal				
3	Note: Yo	u can only e	enter data into	o the yellow filled cells.					
4	Transa	bion Date	Account	Name	Description	Dett	Credit		
5	01	lup 01	1110	Cooh	Investment from Mark Friedman	28 000 00			
7	01	Jun 01	3100	Capital Stock	Investment from Mark Friedman	20,000.00	28,000.00		
8									
								1	
41	80	Jun 14	1110	Cash	Services performed by Lucus Pictures	11,000.00	44.000.00		
42	80	Jun 14	4100	Computer & Consulting Revenue	Services performed by Lucus Pictures		11,000.00		
4.11	< ▶	Intr	oduction	n FAQ Welcome	Chart of Accounts Transactions	General .	Journal	Worksh	eet

The next **eleven journal entries** for A Byte of Accounting were created by another employee and are stored on an Excel sheet named General Journal Part 2. As you review the new file, note the differences

- 1. The column headings are in row 6
- 2. The column headings are different
- 3. The columns are in a different order
- 4. Column B contains both the transaction number and the account number
- 5. The account number layout is different
- 6. The account name sometimes contains leading spaces

	Α	В	С	D	E	F
1			A Byte of Acc	ounting, Inc.		
2			General	Journal		
3						
4						
5						
6	M/DD	Trans Account	Detail	Account Name	Debit	Right Side
7	6/16	09 1120000.0000	G. Washington Invoice 1492	Accounts Receivable	633.00	
8	6/16	09 4130000.0000	G. Washington Invoice 1492	Repair Service		348.00
9	6/16	09 4110000.0000	G. Washington Invoice 1492	Equipment Sales		285.00
10						
11	6/16	10 5090000.0000	Invoice 1732	Cost of Goods Sold	161.03	
17	6116	10 1120000 0000	Turning 1722	Turrantaur		121.02
38						
39	6/26	19 5080000.0000	Supplies Chk 5056	Supplies	124.00	
40	6/26	19 1110000.0000	Supplies Chk 5056	Cash		124.00
4 A ()	Genera	al Journal General Journal Part	2 Worsheet Income Statement Char	iges in Retained Earnings Balance 5 (+) : (

	A	В	C	D	E	F	G	н	
1	Account	Name	Transactio	Date	Descriptio	Debit	Credit	Running B	alance
2	1110	Cash	1	2018-06-0	Investmen	28000	0	28000	
3	1110	Cash	3	2018-06-0	Hailey Cor	0	7000	21000	
4	1110	Cash	5	2018-06-0	Scanner, J	0	125	20875	
5	1110	Cash	7	2018-06-0	Pd A/p ck6	0	640	20235	
6	1110	Cash	8	2018-06-1	Services p	11000	0	31235	
7	1110	Cash	12	2018-06-1	To Payroll	0	1430.01	29805	
8	1110	Cash	13	2018-06-2	Receipt Ca	633	0	30438	
9	1110	Cash	14	2018-06-2	Monthly Ir	0	326	30112	
10	1110	Cash	15	2018-06-2	Maint Chk	0	190	29922	
11	1110	Cash	19	2018-06-2	Supplies Cl	0	124	29798	
12	1120	Accounts I	09	2018-06-1	G. Washin	633	0	633	
13	1120	Accounts I	13	2018-06-2	Receipt Ca	0	633	0	
14	1120	Accounts I	16	2018-06-2	J. Adans In	350	0	350	
15	1130	Inventory	10	2018-06-1	Invoice 17	0	161.025	-161.02	
16	1130	Inventory	17	2018-06-1	Invoice 17	0	147.84	-308.86	
17	1130	Inventory	18	2018-06-2	Purchased	3350	0	3041.14	
18	1211	Office Equ	2	2018-06-0	Hudson eq	4000	0	4000	
19	1211	Office Equ	5	2018-06-0	Scanner, J	125	0	4125	
20	1311	Computer	3	2018-06-0	Hailey Cor	7000	0	7000	
21	2101	Accounts I	2	2018-06-0	Hudson ec	0	4000	-4000	
22	2101	Accounts I	4	2018-06-0	Avery Rep	0	725	-4725	
23	2101	Accounts I	6	2018-06-0	Zac Adver	0	3380	-8105	
24	2101	Accounts I	7	2018-06-0	Pd A/p ck6	640	0	-7465	
25	2101	Accounts I	18	2018-06-2	Purchased	0	3350	-10815	
26	2120	Payroll Lia	11	2018-06-1	Salary Exp	0	1430.01	-1430.01	
27	2120	Payroll Lia	12	2018-06-1	To Payroll	1430.01	0	0	
28	3100	Capital Sto	1	2018-06-0	Investmen	0	28000	-28000	
29	4100	Computer	8	2018-06-1	Services p	0	11000	-11000	
30	4110	Equipmen	09	2018-06-1	G. Washin	0	285	-285	
31	4110	Equipmen	16	2018-06-2	J. Adans In	0	264	-549	
32	4130	Repair Ser	09	2018-06-1	G. Washin	0	348	-348	
33	4130	Repair Ser	16	2018-06-2	J. Adans In	0	86	-434	
34	5030	Advertisin	6	2018-06-0	Zac Adver	3380	0	3380	
35	5030	Insurance	14	2018-06-2	Monthly Ir	326	0	3706	
36	5040	Repairs &	4	2018-06-0	Avery Rep	725	0	725	
37	5080	Supplies	19	2018-06-2	Supplies Cl	124	0	124	
38	5090	Cost of Go	10	2018-06-1	Invoice 17	161.025	0	161.02	
39	5090	Cost of Go	17	2018-06-1	Invoice 17	147.84	0	308.86	
40	5220	Maintena	15	2018-06-2	Maint Chk	190	0	190	
41	5380	Salary	11	2018-06-1	Salary Exp	1430.01	0	1430.01	

End with the General Ledger

And the Unadjusted Trial Balance

	A	B
1	Account And Name	Balance
2	1110 Cash	29797.99
3	1120 Accounts Receivable	350
4	1130 Inventory	3041.14
5	1211 Office Equip.	4125
6	1311 Computer Equip.	7000
7	2101 Accounts Payable	-10815
8	2120 Payroll Liabilities	0
9	3100 Capital Stock	-28000
10	4100 Computer & Consulting	-11000
11	4110 Equipment Sales	-549
12	4130 Repair Service	-434
13	5030 Advertising Expense	3380
14	5030 Insurance Expense	326
15	5040 Repairs & Maint. Expens	725
16	5080 Supplies	124
17	5090 Cost of Goods Sold	308.86
18	5220 Maintenance/Janitorial	190
19	5380 Salary	1430.01

Start Alteryx

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.





Remember that the field names are in the sixth row.

In the Configuration area, change the number in "Start Data Import on Line" to 6.

Op	tions		
	Name	Value	
2	File Format	Microsoft Excel (* xlsx)	
3	Table or Query	'General Journal Part 2\$'	
4	Search SubDirs		
5	Output File Name as Field	No	~
6	First Row Contains Data		
7	Start Data Import on Line	6	

Select "Run".

Select the output connector on the "Input Data Tool".



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

Tool 2: Text To Columns Tool – Separate one column into many columns

Column B in the source document contains a merged field of the transaction number and the account number separated by spaces. The spaces are referred to as the delimiter. Common delimiters are commas, dashes, and semicolons.

Each space is treated as a separate delimiter.

Therefore, we will convert one field into six fields.

	В
Trans	Account
09	1120000.0000
09	4130000.0000
09	4110000.0000
10	5090000.0000

Drag the "**Text To Columns 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 "**Text To Columns Tool**" selected, click the drop-down arrow on the "Column to Split" option.

	Text To Columns(24)-Configuration ✓ 五
Select the field "Trans Account".	 Select Solumn to Split Column to split Delimiters M/DD M/DD Trans Account Detail Account Name Debit Right Side F7
Enter a "space" as the delimiter.	Delimiters
Enter "6" as the number of columns.	 Split to columns Number of columns Extra characters Output root name Output root name Split to rows
To apply the latest change, select "Run Select Sort Join Linion Fext To Summeri	n".



Select the output connector on the "Text To Columns Tool".

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

Moreover, six new fields will be created from parsing the "Trans Account" field, four of which will be empty and should be removed.

The account number field in the new file will be a seven-digit number; whereas the old file used a four-digit account number therefore, "Trans Account6" will have to be converted.

Tool 3: Select Tool – Remove extra fields, rename fields and change the type of field

Drag the "**Select Tool**" from the Tools Palette to the right of the "**Text To Columns Tool**" on the Canvas. The two will be connected automatically.



Remove the extra fields, "Trans Account2" - "Trans Account5", by unchecking them.

0	Options • 1 1	TIP: To re	ov r mitple r	ows: select, n	ight-click and drag.									- +
0	Field	Type	Sze	Rename	Description		-							
O	M/DD	Date	• 10				HA							
0	Trans Account	V ing	• 255						Account -		1	ieneral		
	Detail	String	• 255			Table-	General	$d \ge 1$	Ascending			edgesxisx ables Alterox		
	Account Name	V_String	• 255			Journa	15		Ascending		1	and interfer		
	Debt	Double	• 8						terror and the second sec		THE OWNER	-		
	Right S	Double	* 8								- 21			
	F7	Double	* 8							Arrount And	-		Unadjusted Diat	1
	Trans Account	1 V_String	• 255		TextToColum					Name = tostring			Balance.xfsx	
	Trans Account	2 V_String	 255 		TextToColum					([Account]) = ***	8		Table = Unadjuste	
	Trans Account	3 V_String	• 255		TextToColum_					Treamer.			a mar balance	1
	Trans Account	4 V_String	• 255		TextToColum									
	Trans Account	5 V_String	• 255		TextToColum									
	Trans Account	6 V_String	· 255		TextToColum_	-								
	Unknown	Unknown	• 0		Dynamic or U.		1							
						Results-Select(3	HE) - Output							v
						Results - Select ()	Hi)-Dutsut İs • 🛩 Cell	lViewer • ↑↓ 4	130 records isplayed				Data	v Metadata ि • ि • 1
						Results - Delect ()	IE)-Output ds • ♥ Cell M/DD	Viewer • ↑ ↓ 4 Trans Account	130 records lisplayed Detail	Account Name	Debit	Right Side	Data Trans Account1	Metadata G - G - Trans Account6
						Results - Select (3 8 of 8 Field Record #	161-Outsut ds • ✔ Cell 2018-06-16 2018-06-16	Viewer • ↑↓ 4 Trans Account 09 1120000.0000	150 records lisplayed Detail G. Washings: Invoice 1492 G. Washings: Divoice 1492	Account Name Accounts Receivable Beaut Socia	Debit 633	Right Side	Dota Trans Account1 09	Metadata Co + Co - Trans Account6 1120000000
						Results - Belect (3) Record # 1 2 3	16)-Dutsut ds • ♥♥ Cell M/DD 2018-06-16 2018-06-16 2018-06-16	Viewer • 1 1 4 Trans Account 09 112000.0000 09 413000.0000 09 413000.0000	130 records lisplayed Detail G. Washings: I moise 1492 G. Washington woice 1492 G. Washington woice 1492	Account Name Accounts Receivable Repair Service Equipment Sales	Debit 633 (7440) (7440)	Right Side [Pium] 348 285	Dota Trans Account1 09 09 09	Metadata C
						Results - Delect (3) Record # 1 2 3 4	45 - Outout 45 • ♥♥ Cell 018-06-16 2018-06-16 2018-06-16 2018-06-16 [Notif]	Viewer • ↑ ↓ 4 Trans Account 9 112000.0000 9 4130000.0000 9 411000.0000 [Pull]	130 records Visolayed Detail G. Washingto, Invoice 1492 G. Washington woice 1492 (Washington woice 1492 (Null)	Account Name Accounts Receivable Repair Service Equipment Sales	Debit 633 (?440) (?440) (?440)	Right Side [?0.0] 348 285 [?0.0]	Dota Trans Account1 09 09 09 (Null)	Metadata Common Trans Account6 1120000,0000 4130000,0000 4110000,0000 [New]
	Use commas as destinal	separation (St	ring: Numeric c	onversions of	nhớ	Results - Select 13 B of 8 Field Record # 1 2 3 4 c	ESI-Dutsut ds • ♥ Cell M/DD 2018-06-16 2018-06-16 Pour) 2018-06-16 Pour) 2018-06-16	Viewer • ↑ ↓ 4 Trains Account 9 1120000000 09 41300000000 09 41100000000 [hut] 10 5000000000	130 record Nobleyed Detail G. Washingto, Tholice 1492 G. Washington, Provide 1492 [Rull] Involve 1793	Account Name Account Reservable Repair Service Equipment Sales	Debit 633 9 Juli 9 Juli	Right Side (Pull) 348 285 (Pull) Pull) Pull	Dota Trans Account1 09 09 19 10	Metadata (C) - (C) - 1 Trans Accounté 112000.0000 419000.0000 (Second Con
	Use commas as decimal	espanation (3)	ring/Numeric o	onvenions of	τάν	C Results - Defect() B of 8 Fields Record # 1 2 3 4 4	IBI-Output ds - Cell M/DD 2015-06-16 2015-06-16 2015-06-16 2015-06-16 1015-06-16 2015-06-16 1015-06-16	Viewer • 1 • 4 4 Trans Account 09 112000.0000 09 4130000.0000 09 413000.0000 10 413000.0000 10 413000.0000 10 41000.0000	130 records tolayed Detail G. Washingta, imode 1492 G. Washingta, imode 1492 G. Washington, oce 1492 Backies 1973	Account Name Accounts Processor Repairs Service Equipment Sales	Debit 633 (PAR) (PAR) (PAR) (PAR) (PAR)	Right Side (Pur) 348 285 Pàul) Noire	Cura Trans Account1 09 9 9441 10	Hetadata Co +

Subsequently, select the output connector on the "Select Tool".

Rename all the fields that do not correspond with the field names in the old file. However, at this time do not rename "Trans Account6" to "Account". A formula has to be created to convert to the format before the field is renamed.

ne	()			Field		Туре		Size	Rename	Description
ŀ	\odot	•		M/DD		Date	•	10	Date	
	3			Trans	Account	V_String	•	255		
			\square	Detail		V_String	•	255	Description	
ed			\checkmark	Account	nt Name	V_String	•	255	Name	
hle				Debit		Double	•	8		
510			\checkmark	Right S	ide	Double	•	8	Credit	
				F7		Double	•	8		
			\checkmark	Trans	Account1	V_String	•	255	Transaction	TextToColum.
				Trans	Account2	V_String	•	255		TextToColum.
				Trans	Account3	V_String	•	255		TextToColum.
				Trans	Account4	V_String	•	255		TextToColum.
				Trans	Account5	V_String	•	255		TextToColum.
			\square	Trans	Account6	Double	•	8		TextToColum.
				*Unkno	wn	Unknown	-	0		Dynamic or U.

Change the type of the "Trans Account6" field from "V_String" to "Double", i.e., a numeric value.

Select "Run".

Then, select the output connector on the "Select Tool".

The new field headings are correct.

7 of 7 Fierds 👻 🖌 Cell Viewer 👻 🔨 🧄 4,130 records displayed												
Record #	Date	Description	Name	Debit	Credit	Transaction	Trans Account6					
1	2018-06-16	G. Washington Invoice 1492	Accounts Receivable	633	[Null]	09	1120000					
2	2018-06-16	G. Washington Invoice 1492	Repair Service	INull	348	09	4130000					
3	2018-06-16	G. Washington Invoice 1492	Equipment Sales	[Null]	285	09	4110000					
4	[Null]	[Null]		[Null]	[Null]	[Null]	[Null]					
5	2018-06-16	Invoice 1732	Cost of Goods Sold	161.025	[Null]	10	5090000					
6	2018-06-16	Invoice 1733	Inventory	[Null]	161.025	10	1130000					
7	[Null]	[Null]		[Null]	[Null]	[Null]	[Null]					
8	2018-06-16	Salary Expense	Salary	1430.01	[Null]	11	5380000					
9	2018-06-16	Salan/ Evnence	Payroll Liabilities	TMad Fl	1430.01	11	2120000					

Tool 4: Formula Tool: We now want to convert the new file's seven-digit account number to the old file's four-digit code by dividing it by 1000.



Drag a "**Formula Tool**" [1] 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 drop-down arrow on the



Type the formula	For	Formule (26) - Configuration							~
[Trans Account6]/1000			Output Co	lumn	Data Preview				
	5		Account	8	1120				
	0 0	∫x X ₹	[Trans	Account6]/1000				
Select the drop-down arrow to	0	1	Data t pe:	V WString	•	ize:	10737418	23	•
change the data type.				Blob					
				Bool					
				Byte					
				Int16					
Select "FixedDecimal".				Int32					
				Int64					
	-	Circuit D		FixedDecir	nal			~	
	Data type:	FixedD	ecimal	Precisio	n: 19	•	Scale:	0	-
Change the Scale: (Decimal	Places) to	"2".	<						
	Data type:	FixedD	ecimal	 Precision 	n: 19	\$	Scale:	2	\$

Select "Run".

Select the output connector on the "Formula Tool".

8 of 8 Fields 🔹 🖋 Cell Viewer 🝷 🔨 🥠 4,130 records displayed											
Record #	Date	Description	Name	Debit	Credit	Transaction	Trans Account6	Account			
1	2018-06-16	G. Washington Invoice 1492	Accounts Receivable	633	[Null]	09	1120000	1120			
2	2018-06-16	G. Washington Invoice 1492	Repair Service	[Null]	348	09	4130000	4130			
3	2018-06-16	G. Washington Invoice 1492	Equipment Sales	[Null]	285	09	4110000	4110			
4	[Null]	[Null]		[Null]	[Null]	[Null]	[Null]	[Null]			
5	2018-06-16	Invoice 1732	Cost of Goods Sold	161.025	[Null]	10	5090000	5090			
6	2018-06-16	Invoice 1733	Inventory	[Null]	161.025	10	1130000	1130			
7	[Null]	[Null]		[Null]	[Null]	[Null]	[Null]	[Null]			
8	2018-06-16	Salary Expense	Salary	1430.01	[Null]	11	5380000	5380			
9	2018-06-16	Salary Evnence	Payroll Liabilities	INfall1	1430.01	11	2120000	2120			

Tool 5: Select Tool – Remove extra fields

Drag another "Select Tool" from the Tools Palette to the right of the "Formula Tool" on the Canvas. The two will be connected automatically.



Select "Run".

Select the output connector on the "Select Tool".

ecord #	Date	Description	Name	Debit	Credit	Transaction	Account
1	2018-06-16	G. Washington Invoice 1492	Accounts Receivable	633	[Null]	09	1120
2	2018-06-16	G. Washington Invoice 1492	Repair Service	[Null]	348	09	4130
3	2018-06-16	G. Washington Invoice 1492	Equipment Sales	[Null]	285	09	4110
4	[Null]	[Null]		[Null]	[Null]	[Null]	[Null]
5	2018-06-16	Invoice 1732	Cost of Goods Sold	161.025	[Null]	10	5090
6	2018-06-16	Invoice 1733	Inventory	[Null]	161.025	10	1130
7	[Null]	[Null]		[Null]	[Null]	[Null]	[Null]
8	2018-06-16	Salary Expense	Salary	1430.01	[Null]	11	5380
9	2018-06-16	Salan/ Evnence	Payroll Liabilities	(Notell)	1430.01	11	2120

Tool 6: Filter Tool – Remove extra rows

"Account" greater than "1".

There are several rows that do not contain an account number. We can modify the working dataset so that it includes only the 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 that have account numbers greater than one. The second subset, "False", will contain all rows that have account numbers less than one.

Drag the "**Filter 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.



Account

1

To apply the latest change, select "Run".

Select the True output connector on the "Filter Tool".

Select the "T" in the "Results" area.

-	Renput #	Date	Description	Name	Debit	Credit	Transaction	Acc
2	1	2018-06-16	G. Washington Invoice 1492	Accounts Receivable	633	[Null]	09	1120
	2	2018-06-16	G. Washington Invoice 1492	Repair Service	[Null]	348	09	4130
5	3	2018-06-16	G. Washington Invoice 1492	Equipment Sales	[Null]	285	09	4110
F	4	2018-06-16	Invoice 1732	Cost of Goods Sold	161.025	[Null]	10	5090
-	5	2018-06-16	Invoice 1733	Inventory	[Null]	161.025	10	1130
	6	2018-06-16	Salary Expense	Salary	1430.01	[Null]	11	5380
	7	2018-06-16	Salary Expense	Payroll Liabilities	[Null]	1430.01	11	2120
	8	2018-06-16	To Payroll company Chk 6003	Payroll Liabilities	1430.01	[Null]	12	2120
	9	2018-06-16	To Payroll company Chk 6003	Cach	Third 11	1430.01	12	1110

Something is wrong in the "Name" field; 54.17% of the data has leading spaces. We will have to remove the spaces when we remove the "Null".

		Name	Debit	Credinsaction		
Accounts	Accounts F	Not OK: 54.17%	33	[Null]		1
Repai	Repair	OK: 45.83%	Null]	348		
Equipr	ment Sales	This cell	has leading	spaces,	1	4
Cost of G	oods Sold	161.025	[Null]	10		5
Invento	ory	[Null]	161.025	10		1
Salary		1430.01	[Null]	11		5
Payroll	Liabilities	[Null]	1430.01	11		2
Payroll Lia	abilities	1430.01	[Null]	12		2
Cash		TNI0117	1430.01	12		1

Tool 7: Select Tool – Sort by "Account" and then "Transaction"

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

Drag the "**Sort Tool**" from the Tools Palette to the True connector of the "**Filter 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.



To apply the latest change, select "Run". Select the True output connector on the "Filter Tool".

Record #	Date	Description	Name	Debit	Credit	Transaction	Account
1	2018-06-16	To Payroll company Chk 6003	Cash	[Null]	1430.0	12	1110
2	2018-06-21	Receipt Cash Inv # 1732	Cash	633	[Null]	13	1110
3	2018-06-22	Monthly Insurance Chk 6004	Cash	[Null]	326	14	1110
4	2018-06-23	Maint Chk 6005	Cash	[Null]	190	15	1110
5	2018-06-26	Supplies Chk 5056	Cash	[Null]	124	19	1110
6	2018-06-16	G. Washington Invoice 1492	Accounts Receivable	633	[Null]	09	1120
7	2018-06-21	Receipt Cash Inv # 1733	Accounts Receivable	[Null]	633	13	1120
8	2018-06-24	J. Adans Invoice 1493	Accounts Receivable	350	[Null]	16	1120
9	2018-06-16	Invoice 1733	Inventory	Third I	161 02	10	1130

Tool 8: Data Cleansing Tool – Replace "Null" with "0" and remove leading spaces

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.



Select "Run". Select the output connector on the "Data Cleansing Tool".

Record #	Date	Description	Name	Debit	Credit	Transaction	Account
1	2018-06-16	To Payroll company Chk 6003	Cash	0	1430.01	12	1110
2	2018-06-21	Receipt Cash Inv # 1732	Cash	633	0	13	1110
3	2018-06-22	Monthly Insurance Chk 6004	Cash	0	326	14	1110
4	2018-06-23	Maint Chk 6005	Cash	0	190	15	1110
5	2018-06-26	Supplies Chk 5056	Cash	0	124	19	1110
6	2018-06-16	G. Washington Invoice 1492	Accounts Receivable	633	0	09	1120
7	2018-06-21	Receipt Cash Inv # 1732	Accounts Receivable	0	633	13	1120

Tool 9: Union Tool: Appends multiple data streams into one stream based upon the field name or record position.

Rearrange the top flow by clicking and dragging a box around the seven tools in the upper-right corner and releasing the mouse.



Click the right arrow on the keyboard and the seven tools will move to the right.



Drag the "**Union Tool**" from the Tools Palette to the position between the path from the top "**Data Cleansing Tool**" to the "Formula Tool".



Delete the connection between the top "**Data Cleansing Tool**" and the "Running Total **Tool**" by right clicking on the line and selecting "Delete Connection".



Connect the output of the bottom stream to the "Union Tool". - + 0 3 •~• 7 #1 J A Account -General MF8916.xlsx [Account] > 1 Ascending Ledger.xisx Table= General Transaction Table=Altervx Journals' Ascending -⁶07-لى 7 •~• Unadjusted Trial Account And Name = tostring Balance.xlsx ([Account])+' ۰., Table=Unadjuste [Name] #2 d Trial Balance ٩ **...** A -----J MF8916.xlsx Account = [Trans [Account] > 1 Account Table='General Journal Part 2\$` Account6]/1000 Ascending Transaction Ascending

Connect the output of the "Union Tool" to the "Running Balance Tool".



Select "Run".

Select the input connector on the "Output Data Tool" for the General Ledger.



Something is wrong! The running balance is zero for several rows from the second input stream . . .

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
1	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
	1110	Cash	8	2018-06-14	Services performed by Lucus Pictures	11000	0	31235
1	1110	Cash	12	2018-06-16	To Payroll company Chk 6003	0	1430.01	31235
	1110	Cash	13	2018-06-21	Receipt Cash Inv # 1732	633	0	31235
	1110	Cash	14	2018-06-22	Monthly Insurance Chk 6004	0	326	31235
	1110	Cash	15	2018-06-23	Maint Chk 6005	0	190	31235
0	1110	Cash	19	2018-06-26	Supplies Chk 5056	0	124	31235
1	1120	Accounts Receivable	09	2018-06-16	G. Washington Invoice 1492	633	0	0
2	1120	Accounts Receivable	13	2018-06-21	Receipt Cash Inv # 1732	0	633	0
3	1120	Accounts Receivable	16	2018-06-24	J. Adans Invoice 1493	350	0	0
4	1130	Inventory	10	2018-06-16	Invoice 1733	0	161.02	0
5	1130	Inventory	17	2018-06-16	Invoice 1733	0	147.84	0
6	1130	Inventory	18	2018-06-25	Purchased Inventory PO # 21021	3350	0	0
7	1211	Office Equip.	2	2018-06-01	Hudson equipment Invoice BC3887	4000	0	4000
8	1211	Office Equip.	5	2018-06-04	Scanner, Jake Supplies, 54-541 ck6002	125	0	4125
9	1311	Computer Equip.	3	2018-06-01	Hailey Computers 87245, ck6001	7000	0	7000
0	2101	Accounts Payable	2	2018-06-01	Hudson equipment Invoice BC3887	0	4000	-4000
1	2101	Accounts Payable	4	2018-06-02	Avery Repairs, Invoice 25478	0	725	-4725
2	2101	Accounts Payable	6	2018-06-08	Zac Advertising,23547	0	3380	-8105
-	2101	A second a Develop	-	2010 00 00	D-1 A /	640	0	7466

Select the "Running Balance Tool".

Group By (Optional)		
Transaction	^	All
Date		
Account		Clear
Name		
Description	~	
Create Running Total		
Account		All
Debit		
Credit		Clear
Total Balance		

The running balance is based on the "Total Balance" field that does not exist in the second stream.

Tool 9: Formula Tool: We need to create a new field in the second stream, "Total Balance", which will have the following formula: Debit – Credit. This will produce a positive number if it is a debit amount and a negative number if it is a credit amount.

Drag a "**Formula Tool**" to a position on the path between the bottom "**Data Cleansing Tool**" and the "**Union Tool**" on the Canvas. The three tools will be automatically connected. The data flows into the left side of the tool and out of the right side of the tool.



In the "Output Configuration" area, select the drop-down arrow on the "Select Column" option. Output **Data Preview** 63 Select Column Empty expression (7) + Add Column Transaction Date Account Select "Add Column". Name Size: 1073741823 Description Dehit Type the name of the new field **Data Preview Output Column** 6 Total Balance Empty expression "Total Balance".

Type the formula	Formula (3	7) - Configura	tion			~	뀩
[Debit] - [Credit].		Output Co	olumn		Data Preview		
		Total Bala	ance	Θ	-1430.01		1
	(3) [Debit]-[Credit] (3) (3) (3) (4) (5) (7) (7) (7) (7) (7) (7) (7) (7						
		Data type:	V_WString		Siz :: 1073741823 🗘		
Select the drop-down a	rrow to						
change the data type.		Data type	e: V_WString	-	Size: 1073741823		
5 7			Blob		*		
			Bool				
			Byte				
			Int16				
			Int32				
Select "FixedDecimal".			Int64				
			FixedDecima	l.			
			Elent				
	Da	ata type:	FixedDecimal	•	Precision: 19 🔷 Scale: (i (-
Change the Scale: (De	cimal Pl	aces) to	"2".				
	Da	ata type:	FixedDecimal	•	Precision: 19 🗘 Scale: 2		-

Select "Run".

Select the input connector on the "Output Data Tool" for the General Ledger.



Everything looks great!

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 Lucus Pictures	11000	0	31235
6	1110	Cash	12	2018-06-16	To Payroll company Chk 6003	0	1430.01	29804.99
7	1110	Cash	13	2018-06-21	Receipt Cash Inv # 1732	633	0	30437.99
8	1110	Cash	14	2018-06-22	Monthly Insurance Chk 6004	0	326	30111.99
9	1110	Cash	15	2018-06-23	Maint Chk 6005	0	190	29921.99
10	1110	Cash	19	2018-06-26	Supplies Chk 5056	0	124	29797.99
11	1120	Accounts Receivable	09	2018-06-16	G. Washington Invoice 1492	633	0	633
12	1120	Accounts Receivable	13	2018-06-21	Receipt Cash Inv # 1732	0	633	0
13	1120	Accounts Receivable	16	2018-06-24	J. Adans Invoice 1493	350	0	350
14	1130	Inventory	10	2018-06-16	Invoice 1733	0	161.025	-161.02
15	1130	Inventory	17	2018-06-16	Invoice 1733	0	147.84	-308.86
16	1130	Inventory	18	2018-06-25	Purchased Inventory PO # 21021	3350	0	3041.14
17	1211	Office Equip.	2	2018-06-01	Hudson equipment Invoice BC3887	4000	0	4000
18	1211	Office Equip.	5	2018-06-04	Scanner, Jake Supplies, 54-541 ck6002	125	0	4125
19	1311	Computer Equip.	3	2018-06-01	Hailey Computers 87245, ck6001	7000	0	7000
20	2101	Accounts Payable	2	2018-06-01	Hudson equipment Invoice BC3887	0	4000	-4000
21	2101	Accounts Payable	4	2018-06-02	Avery Repairs, Invoice 25478	0	725	-4725
22	2101	Accounts Payable	6	2018-06-08	Zac Advertising,23547	0	3380	-8105
23	2101	Accounts Payable	7	2018-06-08	Pd A/p ck6003	640	0	-7465
24	2101	Accounts Payable	18	2018-06-25	Purchased Inventory PO # 21021	0	3350	-10815
25	2120	Payroll Liabilities	11	2018-06-16	Salary Expense	0	1430.01	-1430.01
26	2120	Payroll Liabilities	12	2018-06-16	To Payroll company Chk 6003	1430.01	0	0
27	3100	Capital Stock	1	2018-06-01	Investment from Mark Friedman	0	28000	-28000

Select "Run".

	() 0 Errors () 0 Con	v Errors 🗥 1 Warnings 🔲 3 Messages 🔚 4 Files All				
Dutput Data (13) 40 records were written to "C:\000cvbertext\0Altervx\General Ledger.xlsx" (Altervx)						
Summarize (15) 40 records were summarized to 7 groups						
	Dutput Data (16)	17 records were written to ".1000cybertext\0Alteryx\Unadjusted Trial Balance.xlsx" (Unadjusted Trial Balance)				
	Designer x64	Finished running MF89-8 Part 2 12 pm.yxmd in 0.6 seconds with 1 warking				

Click and open the Excel Ledger and the Excel Unadjusted Trial Balance.

			ff F		R		General	Ledger.xl	sx	Mark Fried
	File	Home	Insert	Page	Layout	Formu	las Data	Review	View	Develope
A	1	Ŧ	:	×	~	f _x	Account	ī.		
	А	В		c	D	Е	F	G	н	1 1
1	Account	Name	Tran	sactic D	ate	Descripti	o Debit	Credit	Running	g Balance
2	111	0 Cash	1	2	018-06-0	Investme	er 28000	0	280	00
3	111	0 Cash	3	2	018-06-0	Hailey Co	or O	7000	210	00
4	111	0 Cash	5	2	018-06-0	Scanner,	JO	125	208	75
5	111	0 Cash	7	2	018-06-0	Pd A/p cl	(E 0	640	202	35
6	111	0 Cash	8	2	018-06-1	Services	p 11000	0	312	35
7	111	0 Cash	12	2	018-06-1	To Payro	II O	1430.01	298	05
8	111	0 Cash	13	2	018-06-2	Receipt (Ca 633	0	304	38
9	111	0 Cash	14	2	018-06-2	Monthly	lr O	326	301	12
10	111	0 Cash	15	2	018-06-2	Maint Ch	ik O	190	299	22
11	111	0 Cash	19	2	018-06-2	Supplies	cl o	124	297	98
12	112	0 Accoun	ts I 09	2	018-06-1	G. Washi	n 633	0	6	33
13	112	0 Accoun	ts 13	2	018-06-2	Receipt (Ca O	633		0
14	112	0 Accoun	ts I 16	2	018-06-2	J. Adans	Ir 350	0	3	50
15	113	0 Invento	ory 10	2	018-06-1	Invoice 1	7 0	161.025	-161.	02
16	113	0 Invento	ory 17	2	018-06-1	Invoice 1	7 0	147.84	-308.	86
17	113	0 Invento	ory 18	2	018-06-2	Purchase	d 3350	0	3041.	14
18	121	1 Office E	Equ 2	2	018-06-0	Hudson e	ec 4000	0	40	00
19	121	1 Office E	Equ 5	2	018-06-0	Scanner,	J 125	0	41	25
20	131	1 Compu	ter 3	2	018-06-0	Hailey Co	or 7000	0	70	00
21	210	1 Accoun	ts I 2	2	018-06-0	Hudson e	eq O	4000	-40	00
22	210	1 Accoun	ts I 4	2	018-06-0	Avery Re	p 0	725	-47	25
23	210	1 Accoun	ts I 6	2	018-06-0	Zac Adve	er O	3380	-81	05
24	210	1 Accoun	ts F7	2	018-06-0	Pd A/p cl	<c 640<="" td=""><td>0</td><td>-74</td><td>65</td></c>	0	-74	65
25	210	1 Accoun	ts 18	2	018-06-2	Purchase	d O	3350	-108	15
26	212	0 Payroll	Lia 11	2	018-06-1	Salary Ex	р О	1430.01	-1430.	01
27	212	0 Payroll	Lia 12	2	018-06-1	To Payro	ll 1430.01	. 0		0
28	310	0 Capital	Stc 1	2	018-06-0	Investme	en O	28000	-280	00
29	410	0 Compu	ter 8	2	018-06-1	Services	p 0	11000	-110	00
30	411	0 Equipm	ien 09	2	018-06-1	G. Washi	n O	285	-2	85
31	411	0 Equipm	ien 16	2	018-06-2	J. Adans	ln O	264	-5	49
32	413	0 Repair	Ser 09	2	018-06-1	G. Wash	n 0	348	-3	48
33	413	0 Repair	Ser 16	2	018-06-2	J. Adans	lr O	86	-4	34
34	503	0 Adverti	isin 6	2	018-06-0	Zac Adve	er 3380	0	33	80
35	503	0 Insuran	nce 14	2	018-06-2	Monthly	lı 326	0	37	06
36	504	0 Repairs	5&4	2	018-06-0	Avery Re	p 725	0	7	25
37	508	0 Supplie	s 19	2	018-06-2	Supplies	CI 124	0	1	24
38	509	0 Cost of	Go 10	2	018-06-1	Invoice 1	7 161.025	0	161.	02
39	509	0 Cost of	Go 17	2	018-06-1	Invoice 1	7 147.84	0	308.	86
40	522	0 Mainte	nai 15	2	018-06-2	Maint Ch	ik 190	0	1	90
41	538	0 Salary	11	2	018-06-1	Salary Ex	p 1430.01	. 0	1430.	01

4			-
		A	В
1	Accou	unt And Name	Balance
2	1110	Cash	29797.99
3	1120	Accounts Receivable	350
4	1130	Inventory	3041.14
5	1211	Office Equip.	4125
6	1311	Computer Equip.	7000
7	2101	Accounts Payable	-10815
8	2120	Payroll Liabilities	0
9	3100	Capital Stock	-28000
10	4100	Computer & Consulting	-11000
11	4110	Equipment Sales	-549
12	4130	Repair Service	-434
13	5030	Advertising Expense	3380
14	5030	Insurance Expense	326
15	5040	Repairs & Maint. Expense	725
16	5080	Supplies	124
17	5090	Cost of Goods Sold	308.86
18	5220	Maintenance/Janitorial	190
19	5380	Salary	1430.01

Unadjusted Trial Bal... Friedman, Mark E.

Save the workflow.



