



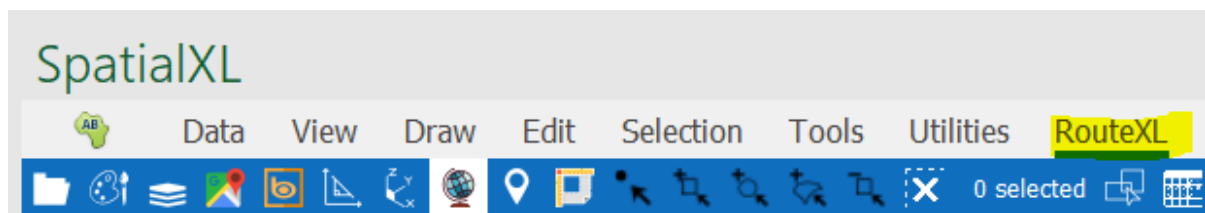
Set to Set Routing in RouteXL

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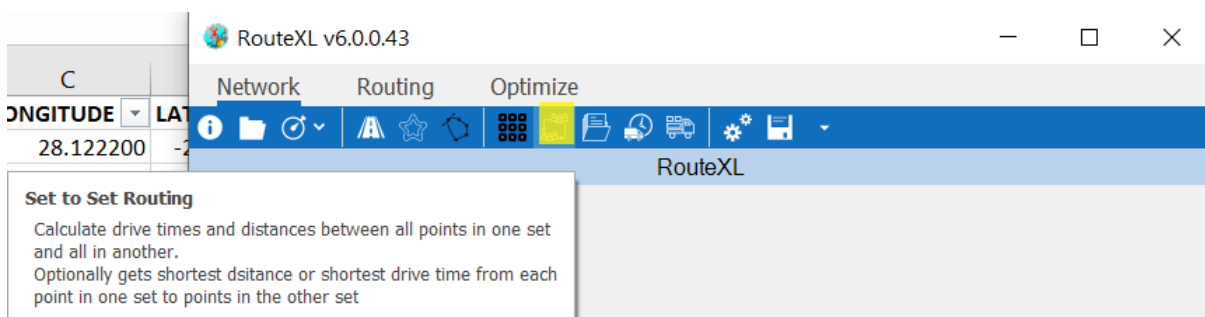
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RouteXL

RouteXL is an add-in to SpatialXL that allows optimised routing, transportation scheduling and high-speed bulk routing operations.

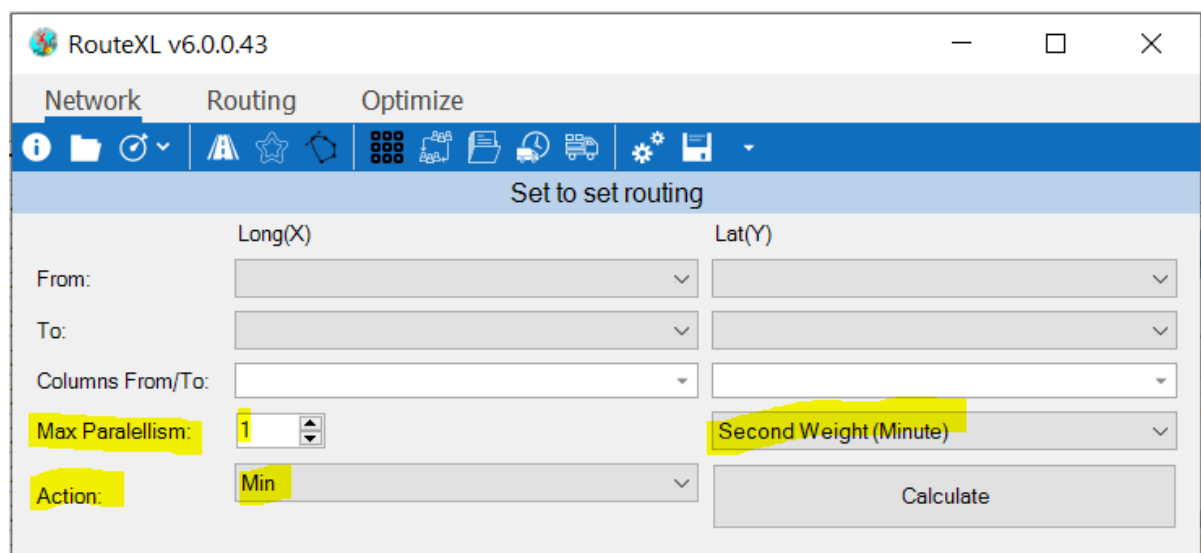
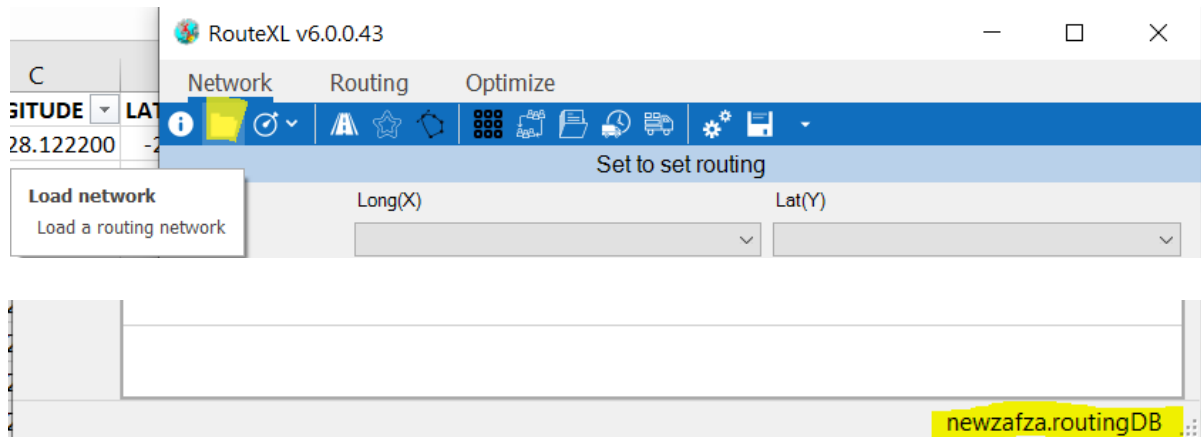


Set to Set Routing



How to set up your data

Load your Routing Network by browsing to your .routingDB file. Your Routing Network will be displayed in the bottom right corner of your RouteXL window. I loaded **newzafza.routingDB** which is the South African Routing Network.

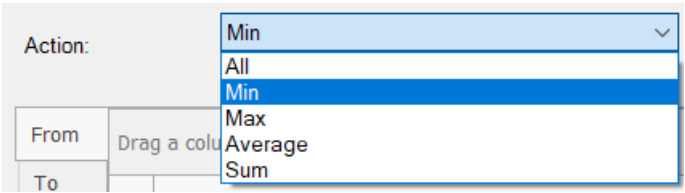


You can either optimize your routing by **First Weight (Meter)** or **Second Weight (Minute)**. I have chosen to optimize by **Second Weight (Minute)** in this example.

Max Parallelism is set at **1** as a default. This is the basic setting for processing your data.

Action is set at **Min** which will calculate the minimum time between the sets of points.

You can dropdown and select other options depending on what output you are looking for.



Inputting your data

ID	NAME	LONGITUDE	LATITUDE
136	ALBERTON HYPER LIQUOR	28.122200	-26.272800
138	ALBERTON WHOLESALERS	28.122167	-26.270050
139	BP**GROBLER SERVICE STATION	28.122770	-26.276130
140	BP EXPRESS**RANDHART	28.194684	-26.337667
141	BRACKENDOWNS LIQUOR STORE	28.194684	-26.337667
142	CALTEX**HENNICO SERVICE STATION	28.124850	-26.260540
143	CALTEX**FLORENTIA MOTORS	28.135400	-26.263000
144	CALTEX STARMART**STAR SERVICES	28.112600	-26.340280
145	NUNOS CONVENIENCE STORE	28.115820	-26.264900
146	CHECKERS**ALBERTON CITY	28.112800	-26.254500
148	CALTEX**COYS SERVICE STATION	28.126640	-26.263104
149	DAILY CONVENIENT STORE	28.127100	-26.261400
150	ENGEN QUICK SHOP**BRACKENTEN MOTORS	28.086900	-26.321800
152	ENGEN QUICK SHOP**JACQUELINE SERVICE STATION	28.115767	-26.296617
153	ENGEN QUICK SHOP**KRITZINGER SERVICE STATION	28.147534	-26.264817
154	ENGEN QUICK SHOP**NEW MARKET SERVICE STATION	28.122300	-26.272000
155	ENGEN QUICK SHOP**NEW REDRUTH	28.127140	-26.272440
156	ENGEN QUICK SHOP**VERWOERDPARK SERVICE STATION	28.144480	-26.273980
157	ENGEN QUICK SHOP**VILLAGE MOTORS	28.106320	-26.309980
158	SASOL DELIGHT**MEYERSDAL	28.091434	-26.289217
159	FRIENDLY SUPERMARKET**RETSOS	28.117450	-26.296867
160	HELENS CAFÉ	28.122300	-26.272800
161	HOT SPOT LIQUOR	28.128100	-26.259200
163	KWIKSPAR**MAYBERRY PARK	28.121930	-26.319390
164	LIQUOR CITY BRACKENDOWNS	28.095660	-26.339550
165	LIQUOR VILLAGE	28.120150	-26.268784
166	LOCO LIQUORS	28.107620	-26.309380
167	LIQUOR CITY	28.120800	-26.265300

RouteXL v6.0.0.43

NetworkRoutingOptimize

Set to set routing

From:Long(X)

To:Lat(Y)

Columns From/To:

Max Parallelism:1

Action:Min

Second Weight (Minute)

Calculate

From

To

Results

Drag a column header here to group by that column

Paste from Clipboard

Import Csv

Copy to clipboard

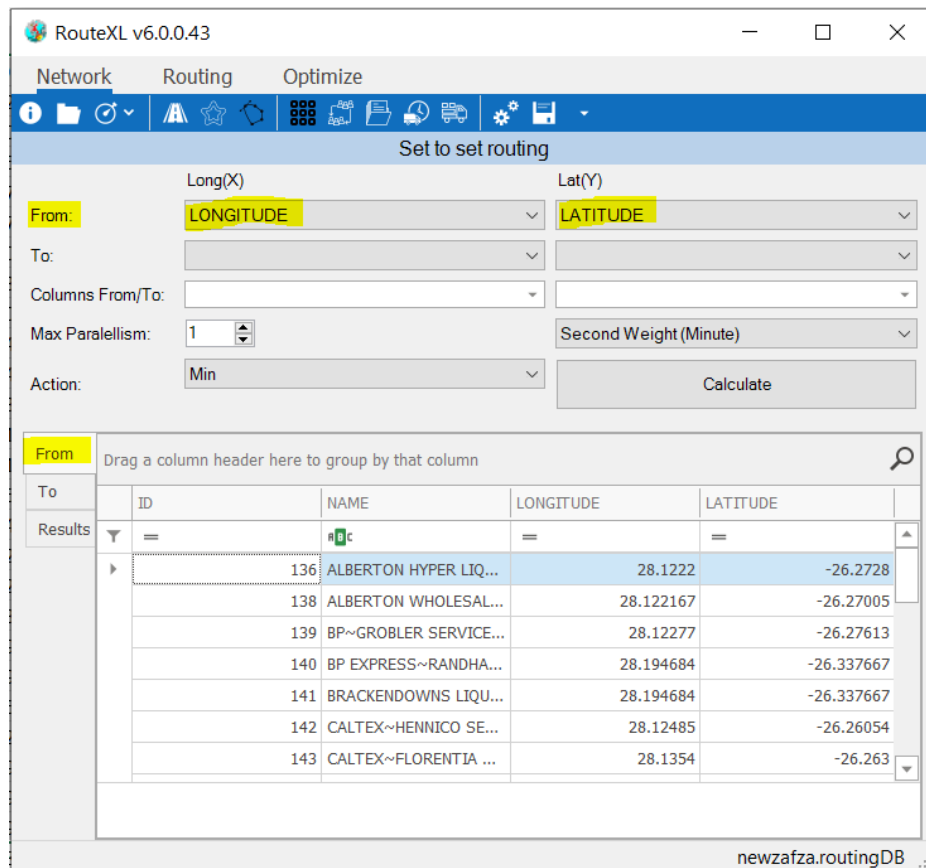
Save to Csv

Pivot to Excel

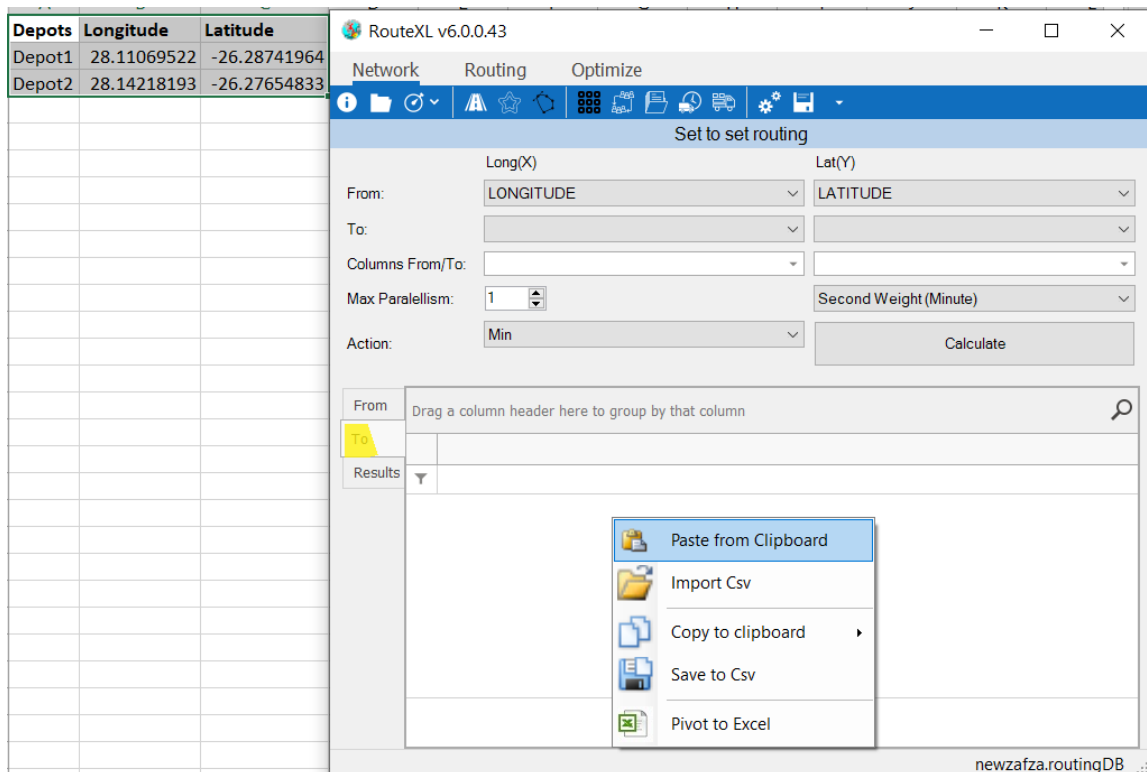
newzafza.routingDB

Select the **From** tab. Then copy your data from your Excel spreadsheet and **Paste from Clipboard** by right clicking in the white area.

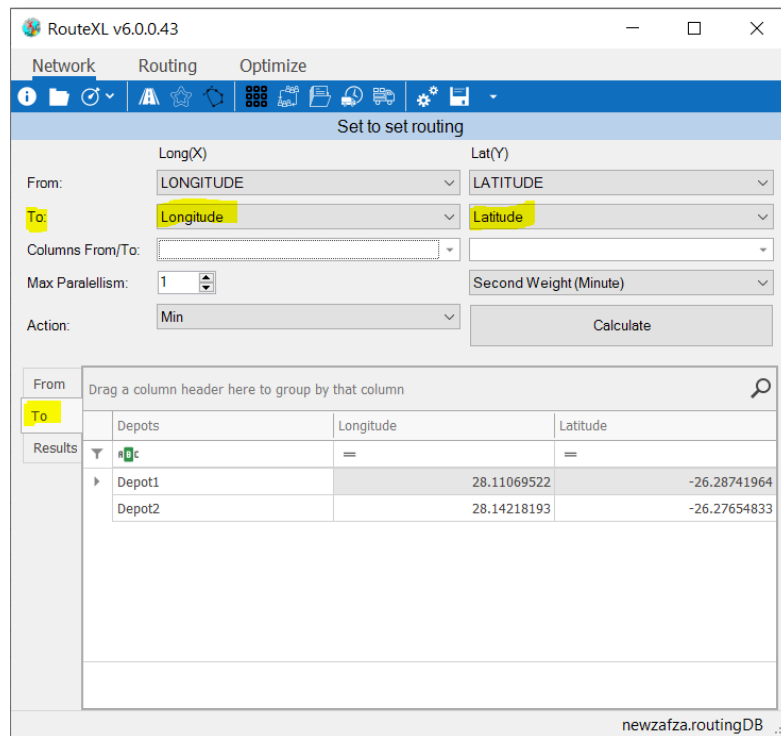
Set to Set Routing User Guide



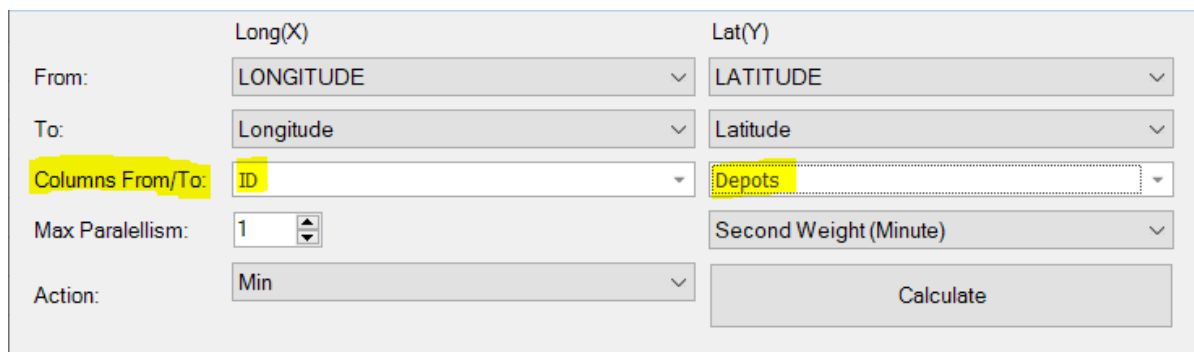
From will now be populated with the **Longitude** and **Latitude** from your Excel spreadsheet.



Select the **To** tab. Then copy your data from your Excel spreadsheet and **Paste from Clipboard** by right clicking in the white area.



To will now be populated with the **Longitude** and **Latitude** from your Excel spreadsheet.



Columns From/To are the Unique IDs you choose to do the **Set to Set Routing** exercise. I have selected **ID** from my **From** tab and **Depots** from my **To** tab.

Set to Set Routing User Guide

	Long(X)	Lat(Y)
From:	LONGITUDE	LATITUDE
To:	Longitude	Latitude
Columns From/To:	ID	Depots
Max Parallelism:	1	Second Weight (Minute)
Action:	Min	Calculate

Click on **Calculate**.

RouteXL v6.0.0.43

Network Routing Optimize

Set to set routing

	Long(X)	Lat(Y)
From:	LONGITUDE	LATITUDE
To:	Longitude	Latitude
Columns From/To:	ID	Depots
Max Parallelism:	1	Second Weight (Minute)
Action:	Min	Calculate

From: Drag a column header here to group by that column

To: **Results**

	ID	Depots	First Weight	Second Weight
▶	136	Depot1	2749.8896484375	3.33400011062622
	138	Depot1	3159.71997070313	3.83200001716614
	139	Depot1	2723.69970703125	3.3050000667572
	140	Depot2	12585.3193359375	12.028000831604
	141	Depot2	12585.3193359375	12.028000831604
	142	Depot2	2968.13940429688	4.89200019836426
	143	Depot2	2048.71997070313	3.35399961471558

Calculated 25 pairs in 113ms newzafza.routingDB

Your **Results** tab will now be populated.

Understanding your data

Calculated 25 pairs in 113ms newzafza.routingDB

Calculated 25 pairs in 113ms means it matched up 25 points from your Excel spreadsheet (**From** tab) to the appropriate **Depots** in your **To** tab in terms of minimum time. This calculation took 113 milliseconds.

From	Drag a column header here to group by that column				
To		ID	Depots	First Weight	Second Weight
Results	▼	=	A B C	=	=
	▶		136 Depot1	2749.8896484375	3.33400011062622
			138 Depot1	3159.71997070313	3.83200001716614
			139 Depot1	2723.69970703125	3.3050000667572
			140 Depot2	12585.3193359375	12.028000831604
			141 Depot2	12585.3193359375	12.028000831604
			142 Depot2	2968.13940429688	4.89200019836426
			143 Depot2	2048.71997070313	3.35399961471558

First Weight and **Second Weight** are also populated here. You can see that your points (**ID**) are matched up with the appropriate **Depots** in terms of minimum time.

RouteXL v6.0.0.43

Network
Routing
Optimize

Icons for various functions: info, folder, refresh, zoom, pan, select, etc.

Set to set routing

Long(X)
Lat(Y)

From: LONGITUDE
LATITUDE

To: Longitude
Latitude

Columns From/To: ID
Depots

Max Parallelism: 1
Second Weight (Minute)

Action: Min

Calculate

From

Drag a column header here to group by that column

You can also group your data by column headings by dragging your heading/s as above.

Set to Set Routing User Guide

The screenshot shows the RouteXL v6.0.0.43 application window. The 'Set to set routing' section is active, displaying configuration options for the routing calculation. Below this, a table shows the results of the calculation, including columns for ID, Depot, First Weight, and Second Weight. A right-click context menu is open over the table, showing options like Sum, Min, Max, Count, Average, and None.

Set to set routing configuration:

- From: LONGITUDE
- To: Longitude
- Columns From/To: ID
- Max Parallelism: 1
- Action: Min
- Calculate button

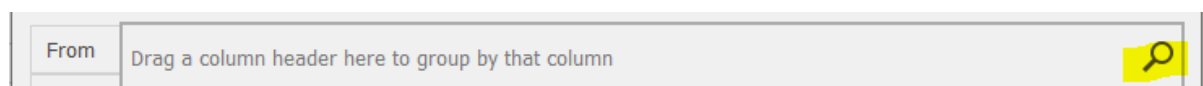
Results Table:

From	To	ID	Depots	First Weight	Second Weight
		136	Depot1	2749.8896484375	3.33400011062622
		138	Depot1	3159.71997070313	3.83200001716614
		139	Depot1	2723.69970703125	3.3050000667572
		140	Depot2	12585.3193359375	12.028000831604
		141	Depot2	12585.3193359375	12.028000831604
		142	Depot2	2968.13940429688	4.89200019836426
		143	Depot2	2048.71997070313	3.35399961471558

SUM=102856.51

Calculated 25 pairs in 113ms

A **Sum** etc. of your columns can be gotten by right clicking the white area and selecting the appropriate option.



Click on the magnifying glass symbol.

Set to Set Routing User Guide

RouteXL v6.0.0.43

Network Routing Optimize

Set to set routing

From: Long(X) LONGITUDE Lat(Y) LATITUDE

To: Longitude Latitude

Columns From/To: ID Depots

Max Parallelism: 1

Action: Min

Calculate

From: Drag a column header here to group by that column × depot1 × Find

From	To	ID	Depots	First Weight	Second Weight
Results	▼	=	#c	=	=
	▶	136	Depot1	2749.8896484375	3.33400011062622
		138	Depot1	3159.71997070313	3.83200001716614
		139	Depot1	2723.69970703125	3.3050000667572
		144	Depot1	6746.1103515625	9.04300022125244
		145	Depot1	4191.98974609375	4.94700002670288
		146	Depot1	5795.6787109375	6.27199935913086
		150	Depot1	6270.8896484375	8.05200004577637
		SUM=60399.8			

Calculated 25 pairs in 113ms newzafza.routingDB

If you want to find a specific name etc. in your data, just type it in as above. Click **Find** if necessary – It automatically finds the data just by typing it in but **Find** is an option as well.

RouteXL v6.0.0.43

Network Routing Optimize

Set to set routing

From: Long(X) LONGITUDE Lat(Y) LATITUDE

To: Longitude Latitude

Columns From/To: ID Depots

Max Parallelism: 1

Action: Min

Calculate

From: Drag a column header here to group by that column

From	To	ID	Depots	First Weight	Second Weight
Results	▼	=	#c	=	=
	▶	136	Depot1	2749.8896484375	3.33400011062622
		138	Depot1	3159.71997070313	3.83200001716614
		139	Depot1	2723.69970703125	3.3050000667572
				12585.3193359375	12.028000831604
				12585.3193359375	12.028000831604
				2968.13940429688	4.89200019836426
				3346.71997070313	3.35399961471558
				56.51	

Calculated newzafza.routingDB

Context Menu:

- Paste from Clipboard
- Import Csv
- Copy to clipboard
 - With Headers
 - Without Headers
- Save to Csv
- Pivot to Excel

Your data can be saved, copied out, and pivoted to Excel for further analysis. Select your data as above then right click and choose the appropriate option.

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