

# Why Row Zero is Superior to Excel

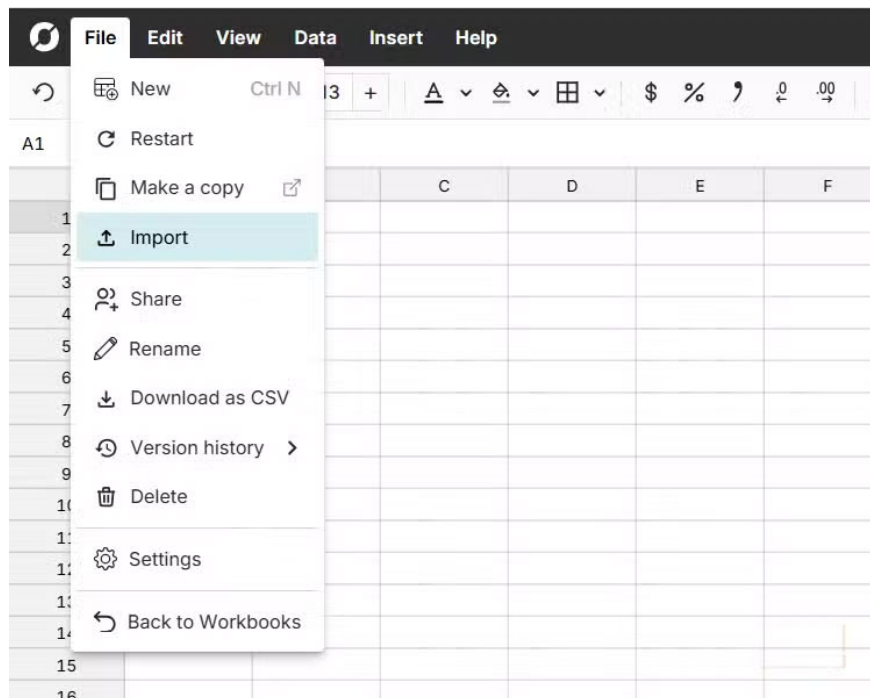
Luckily, there is Row Zero, an easy workaround that gets around this limitation and also lets you use Excel-like formulas.

Microsoft Excel may be the best spreadsheet program ever created, but it does have its limitations. One particular limitation is the number of rows it can handle – it can't load millions of rows. Fortunately, there's Row Zero, an easy workaround that gets around this limit and still lets you use Excel-like formulas.


Try loading millions of rows into Row Zero and you will be amazed at how easily it handles the data. It outperforms Excel in speed and efficiency when handling large data sets. This performance advantage alone makes it worth considering for data-intensive projects.

## Come to Row Zero!

### The superior alternative for handling large data sets



### Import file



**Select a file...**  
Or drag and drop it here

CSV TSV JSONL Parquet XLSX (beta)

**Or import from URL**

URL to file

Cancel Next

### Import 2m Sales Records.csv

**Preview**

Region	Country	Item Type	Sales Channel	Order I
Australia and Oceania	Australia	Meat	Online	C
Asia	Tajikistan	Personal Care	Online	L
Sub-Saharan Africa	Mozambique	Cosmetics	Online	H
Central America and the Cari...	Panama	Personal Care	Offline	L
North America	Canada	Fruits	Online	H
Europe	Italy	Fruits	Offline	C
Europe	Romania	Beverages	Offline	C
Australia and Oceania	Australia	Cosmetics	Offline	L
Europe	Bosnia and Herzegovina	Cosmetics	Offline	C
Asia	Japan	Clothes	Online	M
Australia and Oceania	Papua New Guinea	Beverages	Online	H
Sub-Saharan Africa	Madagascar	Fruits	Online	L
Central America and the Cari...	Saint Kitts and Nevis	Personal Care	Online	H
Europe	Slovakia	Meat	Online	M
Sub-Saharan Africa	Eritrea	Meat	Offline	H
Sub-Saharan Africa	Botswana	Cereal	Online	M

**Destination**

Existing sheet A1

**Import type**

Import into cells

**Header row**

**Advanced options** <

Finished 2,000,000 rows

[Go Back](#)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	
1999870	Sub-Saharan Guinea-Bissa	Vegetables	Online	M	3/2/2018	520863807	4/6/2018	4030	154.06	90.93	620861.8	366447.9	254413.9					
1999871	Sub-Saharan Kenya	Vegetables	Offline	C	5/25/2015	498555123	6/28/2015	2395	154.06	90.93	368973.7	217777.35	151196.35					
1999872	Europe	Moldova	Fruits	Online	M	3/18/2013	567614891	4/15/2013	7709	9.33	6.92	71924.97	53346.28	18578.69				
1999873	Sub-Saharan Mozambique	Beverages	Offline	L	9/8/2016	795269238	10/9/2016	6695	47.45	31.79	317877.75	212894.05	104643.7					
1999874	Europe	Netherlands	Fruits	Offline	H	5/18/2016	419077193	7/2/2016	3109	9.33	6.92	29006.97	2154.28	7492.69				
1999875	Sub-Saharan Benin	Snacks	Offline	L	1/7/2015	996896684	2/10/2015	2737	152.58	97.44	417811.46	266693.28	150918.18					
1999876	Middle East at Tunisia	Meat	Online	M	7/4/2011	556901538	7/7/2011	8395	421.89	364.69	3541766.55	3061572.55	480194					
1999877	Sub-Saharan Senegal	Household	Online	L	12/6/2016	347576084	12/27/2016	4834	668.27	502.54	3297244.18	247932.36	817711.92					
1999878	Europe	United Kingdom	Cereal	Online	L	3/7/2017	787725150	4/14/2017	4232	205.7	117.11	870524.24	495608.52	374912.88				
1999879	Middle East at Jordan	Baby Food	Offline	L	4/18/2010	116454064	5/14/2010	200	255.28	158.42	51056	31884	19172					
1999880	Middle East at Israel	Snacks	Offline	H	11/22/2011	243188655	1/3/2012	3782	152.58	97.44	577057.56	368518.08	208539.48					
1999881	Sub-Saharan Cote d'Ivoire	Clothes	Offline	C	9/6/2017	897665250	9/13/2017	7950	109.28	35.84	868776	284928	583848					
1999882	Europe	Macedonia	Cosmetics	Offline	C	7/10/2010	97993977	8/21/2010	2710	437.2	263.33	1184822	713624.3	471187.7				
1999883	Sub-Saharan The Gambia	Baby Food	Online	H	12/4/2010	810352265	12/2/2010	98	255.28	158.42	25017.44	15623.16	9384.28					
1999884	Central Ameri Saint Kitts and Nevis	Office Supply	Online	M	5/14/2013	779597842	5/14/2013	9181	651.21	524.06	5978759.01	481957.76	1159101.25					
1999885	Sub-Saharan Nigeria	Vegetables	Online	H	12/11/2017	898655736	1/24/2018	1057	154.06	90.93	162841.42	96113.01	68728.41					
1999886	North America Canada	Household	Offline	L	11/10/2011	348824775	11/18/2011	3857	668.27	502.54	257517.38	193926.78	63922.61					
1999887	Sub-Saharan Guinea-Bissa	Cosmetics	Offline	L	11/25/2015	631716287	12/13/2015	7742	437.2	263.33	3384802.24	2038700.86	1346101.54					
1999888	Asia	Cambodia	Personal Care	Offline	L	12/5/2014	619254100	1/13/2015	9904	81.73	56.67	809453.92	561259.68	249194.24				
1999889	Central Ameri Haiti	Personal Care	Offline	M	9/11/2016	603674542	10/26/2016	9567	81.73	56.67	781910.91	542161.89	239749.02					
1999890	Europe	Andorra	Snacks	Offline	M	6/4/2014	947526443	6/4/2014	2985	152.58	97.44	455451.3	290858.4	164592.9				
1999891	Central Ameri Saint Lucia	Personal Care	Offline	M	7/11/2013	733671128	8/15/2013	8448	81.73	56.67	690291.58	478634.82	211656.76					
1999892	Sub-Saharan Djibouti	Meat	Offline	L	7/28/2015	915282428	8/10/2015	1265	421.89	364.69	533690.85	461332.85	72358					
1999893	Europe	Montenegro	Clothes	Offline	C	12/11/2012	265846669	12/26/2012	8792	109.28	35.84	960789.76	315105.28	645684.48				
1999894	Asia	Kyrgyzstan	Clothes	Offline	C	7/28/2015	329162681	8/5/2015	5407	109.28	35.84	590876.96	193786.88	397990.08				
1999895	Sub-Saharan Kenya	Personal Care	Online	H	6/29/2013	468841790	7/23/2013	7530	81.73	56.67	614609.8	426158.4	188451.2					
1999896	Middle East at Israel	Office Supply	Online	M	4/19/2014	120907626	5/20/2014	6575	651.21	524.06	5564125.75	4501532	1082593.75					
1999897	Sub-Saharan Djibouti	Cosmetics	Offline	L	5/19/2016	138297116	6/1/2016	4045	437.2	263.33	1768474	1065169.85	703904.15					
1999898	Europe	Armenia	Snacks	Offline	H	4/19/2014	546858489	5/28/2014	6434	152.58	97.44	981899.72	628928.96	354770.76				
1999899	Central Ameri Dominica	Vegetables	Offline	M	10/19/2014	991853272	12/3/2014	279	154.06	90.93	42962.74	25369.47	17613.27					
2000000	Sub-Saharan Kenya	Office Supply	Online	C	2/6/2010	28895295	2/7/2010	7148	651.21	524.06	4654849.08	3752414.08	902435					

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
3998971	Sub-Saharan Kenya	Vegetables	Offline	C	5/25/2015	496555123	6/28/2015	2395	154.06	90.93	368973.7	217777.35	151196.35				
3998972	Europe Moldova	Fruits	Online	M	3/18/2013	567611491	4/15/2013	7709	9.33	6.92	71924.97	53346.28	18578.69				
3998973	Sub-Saharan Mozambique	Beverages	Offline	L	9/8/2016	795269238	10/9/2016	6695	47.45	31.79	317677.75	212834.05	104843.7				
3998974	Europe Netherlands	Fruits	Offline	H	5/18/2016	419077193	7/2/2016	3109	9.33	6.92	29006.97	21514.28	7492.69				
3998975	Sub-Saharan Benin	Snacks	Offline	L	1/7/2015	968696684	2/10/2015	2737	152.58	97.44	417611.46	266693.29	150918.18				
3998976	Middle East at Tunisia	Meat	Online	M	7/4/2011	559901538	7/7/2011	8395	421.89	364.69	3541766.55	3061572.55	480194				
3998977	Sub-Saharan Senegal	Household	Online	L	12/8/2016	347578084	12/27/2016	4934	668.27	502.54	3297244.18	2479532.36	617711.82				
3998978	Europe United Kingdom	Cereal	Offline	L	3/7/2017	78725150	4/14/2017	4232	205.7	117.11	870524.4	495609.52	374912.89				
3998979	Middle East at Jordan	Baby Food	Offline	L	4/18/2010	118454064	5/14/2010	200	255.28	159.42	51056	31884	19172				
3998980	Middle East at Israel	Snacks	Offline	H	11/22/2011	243188655	1/3/2012	3782	152.58	97.44	577057.56	368518.08	208539.48				
3998981	Sub-Saharan Cote d'Ivoire	Clothes	Offline	C	9/9/2017	897665250	8/13/2017	7950	109.28	35.84	866776	284928	583848				
3998982	Europe Macedonia	Cosmetics	Offline	C	7/29/2019	979932677	8/21/2019	2710	437.2	263.33	1184812	713624.3	471187.7				
3998983	Sub-Saharan The Gambia	Baby Food	Online	H	12/4/2019	810352265	1/22/2020	98	255.28	159.42	25017.44	15823.16	9984.26				
3998984	Central Ameri Saint Kitts and Nevis	Office Supply	Online	M	5/14/2013	779597842	5/14/2013	9181	651.21	524.96	5978760.01	4819657.76	1158191.25				
3998985	Sub-Saharan Nigeria	Vegetables	Online	H	12/11/2017	898655736	1/24/2018	1057	154.06	90.93	162841.42	96113.01	69728.41				
3998986	North America Canada	Household	Offline	L	11/10/2011	348824775	11/18/2011	3857	668.27	502.54	2577517.39	1938296.78	639220.61				
3998987	Sub-Saharan Guinea-Bissau	Cosmetics	Offline	L	11/25/2015	631716287	12/13/2015	7742	437.2	263.33	3384802.4	2038700.86	134801.54				
3998988	Asia Cambodia	Personal Care	Offline	L	12/5/2014	619254100	1/15/2015	9804	81.73	56.67	805453.92	581259.68	249194.24				
3998989	Central Ameri Haiti	Personal Care	Offline	M	9/11/2016	603674542	10/26/2016	9567	81.73	56.67	781910.91	542161.89	239749.02				
3998990	Europe Andorra	Snacks	Offline	M	6/4/2014	947526443	6/4/2014	2985	152.58	97.44	455451.3	290858.4	164592.9				
3998991	Central Ameri Saint Lucia	Personal Care	Offline	M	7/11/2013	733671128	8/15/2013	8446	81.73	56.67	690291.58	478634.82	211656.76				
3998992	Sub-Saharan Djibouti	Meat	Offline	L	7/28/2015	915282428	8/10/2015	1265	421.89	364.69	533990.85	461332.85	72358				
3998993	Europe Montenegro	Clothes	Offline	C	12/11/2012	265846669	12/26/2012	8792	109.28	35.84	960789.76	315105.28	645684.48				
3998994	Asia Kyrgyzstan	Clothes	Offline	C	7/28/2015	329162681	8/5/2015	5407	109.28	35.84	596786.96	193786.88	397090.08				
3998995	Sub-Saharan Kenya	Personal Care	Online	H	6/29/2013	469341790	7/23/2013	7520	81.73	56.67	614609.6	426158.4	188451.2				
3998996	Middle East at Israel	Office Supply	Online	M	4/19/2014	120867826	5/20/2014	8575	651.21	524.96	5584125.75	4501532	1082593.75				
3998997	Sub-Saharan Djibouti	Cosmetics	Online	L	5/19/2016	139297116	6/1/2016	4045	437.2	263.33	1768474	1065109.85	703304.15				
3998998	Europe Armenia	Snacks	Offline	H	4/19/2014	548658469	5/28/2014	6434	152.58	97.44	981699.72	628928.96	354770.76				
3998999	Central Ameri Dominica	Vegetables	Offline	M	10/19/2014	991853272	12/3/2014	279	154.06	90.93	42982.74	25369.47	17613.27				
4000000	Sub-Saharan Kenya	Office Supply	Online	C	2/6/2010	28895295	2/7/2010	7148	651.21	524.96	4654848.08	3752414.08	902435				
4000001	Sub-Saharan Tanzania	Snacks	Offline	M	4/23/2015	474150884	6/8/2015	638	152.58	97.44	97346.04	62166.72	35179.32				

In short, Row Zero is a cloud-based spreadsheet application designed to handle large data sets. It lets you perform common spreadsheet operations—filtering, sorting, pivoting, and charting—on billions of rows in seconds. Basically, if Excel is too much for you, Row Zero is a better choice, with over 250 Excel-like functions for your formulas.

Row Zero also has connections for platforms like Snowflake and BigQuery. It's also built with real-time collaboration in mind, allowing you to securely share spreadsheets with just one click. Plus, instead of using Visual Basic for Applications (VBA) like Excel, it uses the more powerful and flexible Python programming language (although VBA is generally considered easier to learn).

Row Zero is a paid app, starting at \$8/month (billed annually), but it also offers a free plan that can load tens of millions of rows. The biggest downside is that it's limited to one workbook, whereas the paid plans allow for unlimited workbooks. Fortunately, Row Zero still has real-time collaboration and access to all connectors in the free plan.

It is possible to do all your testing on Row Zero with the free plan.

## Time to load 2 million rows into Row Zero!

See if it flashes!

File Edit View Data Insert Help | Untitled Workbook | Data | Code

Pivot table: Asia

Region	Sum of Total Cost	Sum of Total Revenue
Asia	548521699131	777848005218
Australia and Central America and the Caribbean	303681335164	430958370312
Europe	406390221199	576432375304
Middle East and North Africa	971829674799	1378809237155
North America	466586214393	662091571664
Sub-Saharan Africa	80959913790	114855359771
Sub-Saharan	974857391917	1382898345293

Configure pivot table

Pivot source: '2m Sales Records'!A1:N4000001

Rows: Region

Columns: Total Cost, Total Revenue

Values as: Columns

Filters: Unit Price, Unit Cost, Total Revenue, Total Cost, Total Profit

File Edit View Data Insert Help | Untitled Workbook | Data | Code

Pivot table: 576432375304

Region	Sum of Total Cost	Sum of Total Revenue
Asia	548521699131	777848005218
Australia and Central America and the Caribbean	303681335164	430958370312
Europe	406390221199	576432375304
Middle East and North Africa	971829674799	1378809237155
North America	466586214393	662091571664
Sub-Saharan Africa	80959913790	114855359771
Sub-Saharan	974857391917	1382898345293

Configure chart

Type: Bar

Data: Sum of Total Revenue

Series options:  Chart columns as series,  Highlight columns,  Clear highlights

File Edit View Data Insert Help | Untitled Workbook | Data | Code

Region	Sum of Total Cost	Sum of Total Revenue
North America	80959913790	114855359771
Sub-Saharan Africa	974857391917	1382898345293

Configure chart

Type: Line

Data: Region

Series: Sum of Total Revenue

Series options:  Chart columns as series,  Highlight columns,  Clear highlights

The screenshot shows an Excel spreadsheet with a pivot table. The pivot table is located in the range A2:C8. The columns are 'Region', 'Sum of Total Cost', and 'Sum of Total Revenue'. The rows are filtered by 'Region' to show only 'Asia'. A filter dropdown is open, showing the 'Region' filter with 'All selected' and a list of regions: (Select all), Asia, Australia and Oceania, Central America and the Caribbean, Europe, Middle East and North Africa (checked), North America, and Sub-Saharan Africa. The 'Apply filter' button is highlighted.

Region	Sum of Total Cost	Sum of Total Revenue
Asia	548521699131	777848005218
Australia and Oceania	303681335164	430958370312
Central America and the Caribbean	406392021199	576432375304
Europe	971829674799	1378809237155
Middle East and North Africa	466586214393	662091571664
North America	80959913790	114855359771
Sub-Saharan Africa	974857391917	1382898345295

The screenshot shows an Excel spreadsheet with a pivot table. The pivot table is located in the range A2:C2. The columns are 'Region', 'Sum of Total Cost', and 'Sum of Total Revenue'. The rows are filtered by 'Region' to show only 'Asia'. A filter dropdown is open, showing the 'Region' filter with '1 selected' and a list of regions: (Select all), Asia, Australia and Oceania, Central America and the Caribbean, Europe, Middle East and North Africa (checked), North America, and Sub-Saharan Africa. The 'Apply filter' button is highlighted.

Region	Sum of Total Cost	Sum of Total Revenue
Asia	\$548,521,699,131.18	\$777,848,005,218

Once you open a workbook in Row Zero, the interface looks like a basic version of Excel. You should have no trouble getting started right away. Try loading 2 million rows, and as advertised, they load very quickly without any truncation.

You can even add another 2 million rows to see if it can handle it, bringing the total to 4 million rows. Please note that upload speed depends on your internet connection, which means if it is slow, Row Zero may not be as fast and efficient as expected.

Once you've confirmed it can handle a large number of rows, start writing formulas to test its performance. Test formulas with functions like XLOOKUP, and it's pretty fast. Popular and favorite formulas work right out of the box, meaning you don't have to learn how to write them from scratch.

For example, use the formula below to calculate total profit based on an order ID:

```
=XLOOKUP(451691138, G2:G4000001, N2:N4000001)
```

Next, try creating a pivot table, which is just as easy as doing it in Excel. Basically, just select the range, insert the pivot table in a few clicks, and choose what you want in the rows and values. You can even experiment with

charts and filters, Row Zero is still fast, even when working with millions of rows.

This is where Row Zero's cloud architecture comes in. It leverages multiple servers working simultaneously to process data, no matter how large it is. This frees it from the user's hardware constraints, making it faster than Excel in this regard.

You finished reading the article "**Why Row Zero is Superior to Excel**" edited by the [TipsMake](#) team. We hope this article has provided you with many useful tech tips and tricks. You can search for similar articles on tips and guides. Thank you for reading and for following us regularly.