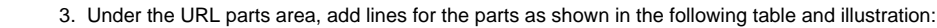
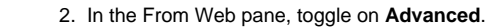


Excel's Power Query tool is used to transform and prepare data. Power Query not only lets you import data from a variety of sources, but gives you the ability to transform and use the data to suit your needs. Using Power Query, you can set up a query once, and then reuse the query by "refreshing" the data as often as needed.

1. In Excel, click **From Web** under the **Data** ribbon to open the Power Query editor.



Part type	Example setting
Host	https://ls-lin-stage.int.x-formation.com
API path	/api/v3/license-server/15/usage-per-user/json
Query parameters	<ul style="list-style-type: none"> <li>• lsid=15</li> <li>• sd=2023-01-01</li> <li>• ed=2023-01-31</li> <li>• grat=DAY</li> <li>• agrt=USER_HOST</li> <li>• offset=0</li> <li>• limit=100</li> </ul>

From Web ✕

☐ Basic ☒ Advanced

URL parts ⓘ

URL preview

Command timeout in minutes (optional)

HTTP request header parameters (optional) ⓘ

- Under "HTTP request header parameters," add an X-Auth-token header using a token generated from License Statistics, and click **Add header**.

From Web ✕

☐ Basic ☒ Advanced

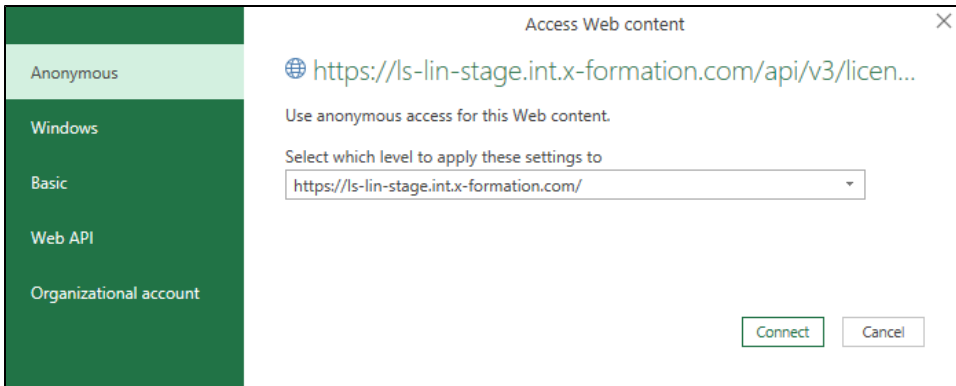
URL parts ⓘ

URL preview

Command timeout in minutes (optional)

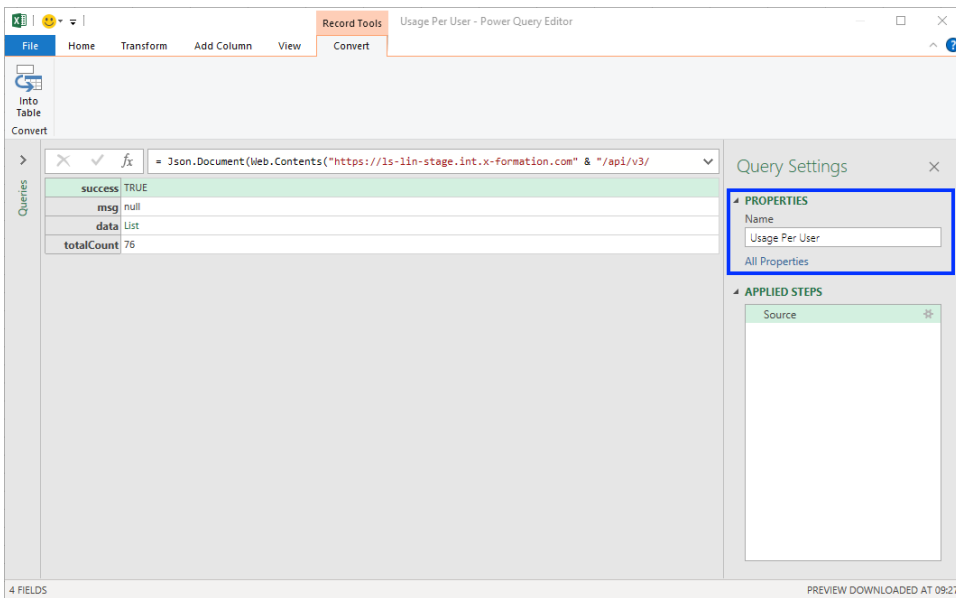
HTTP request header parameters (optional) ⓘ

- Click **OK** to continue.
- Choose **Anonymous** as the web content access type, and click **Connect**.

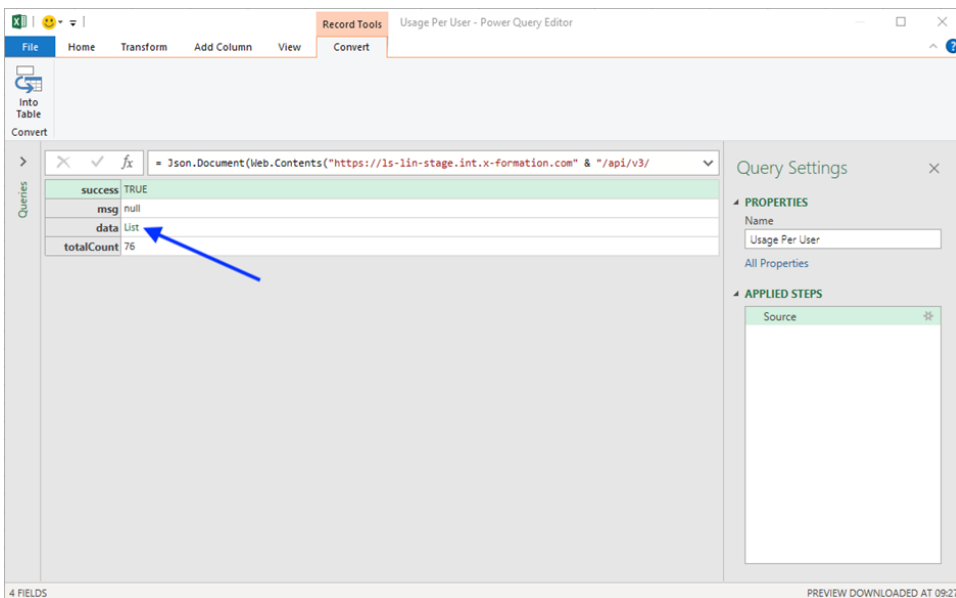


7. Click **Info Table** under the Content ribbon.

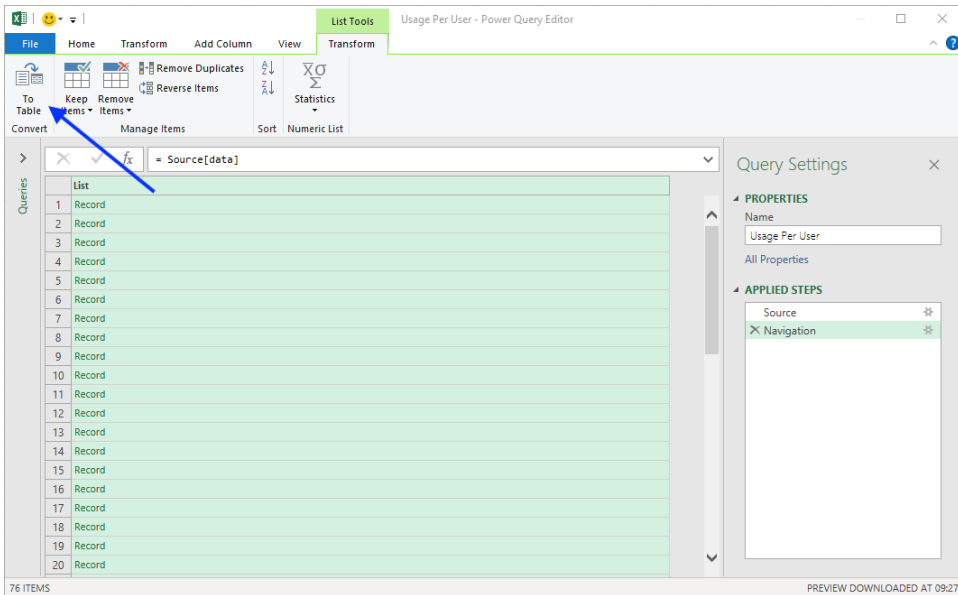
8. Optionally, you can name the query using the Properties area under Query Settings. In our example, we named the query "Usage Per User" to indicate the type of data being retrieved.



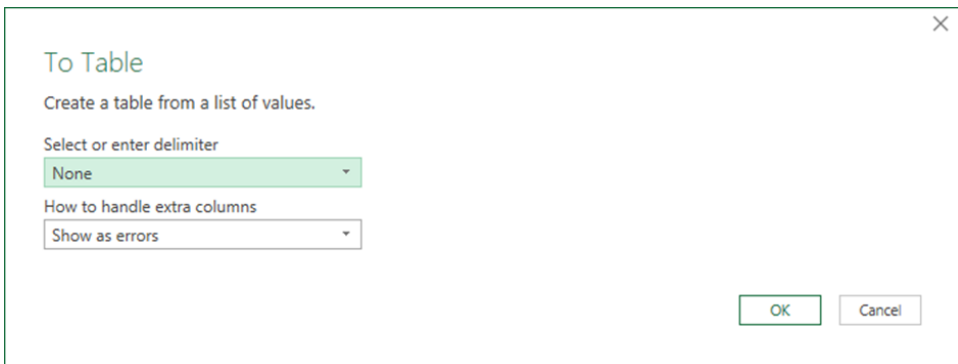
9. Select data list from the table.



10. Click **To Table** under the Transform tab to convert the data list to a table.

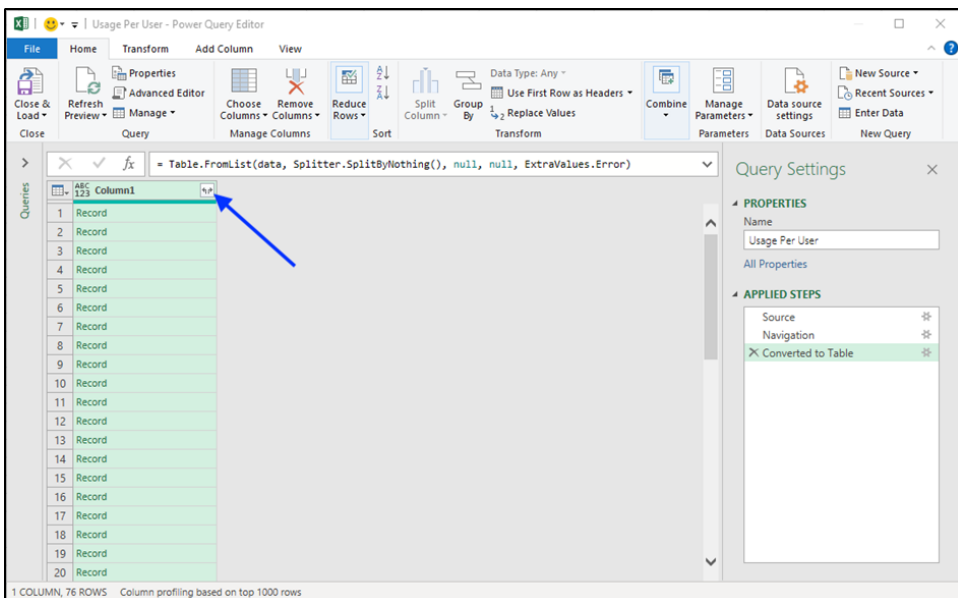


11. In the resulting "To Table" pane, choose **None** as the delimiter, and choose **Show as errors** to handle extra columns.

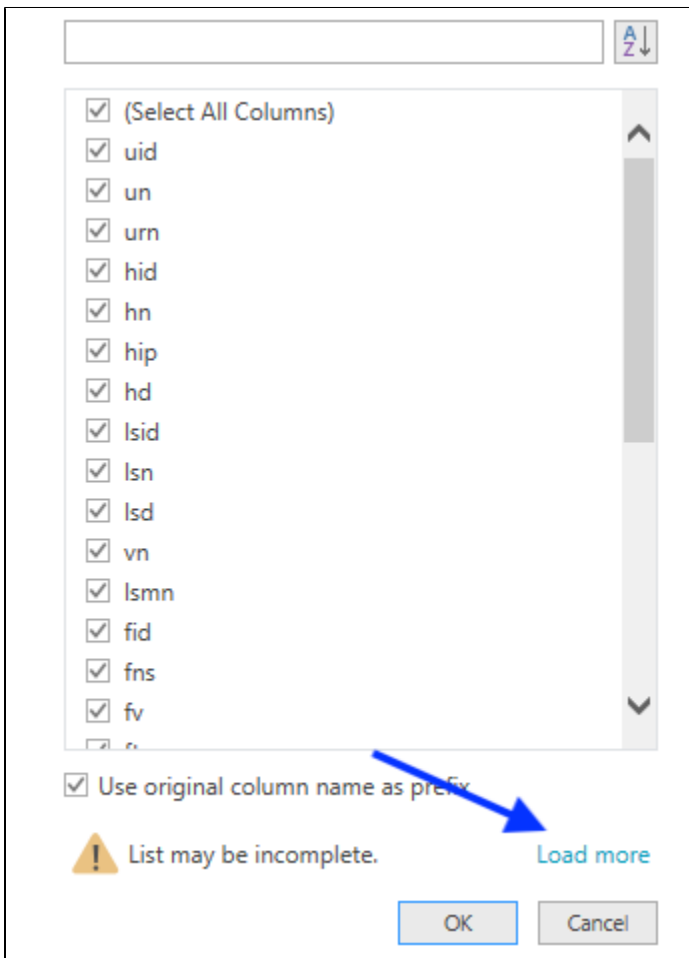


12. Click **OK**.

13. Click the expand icon in the upper right of the Queries table to expand the table columns.



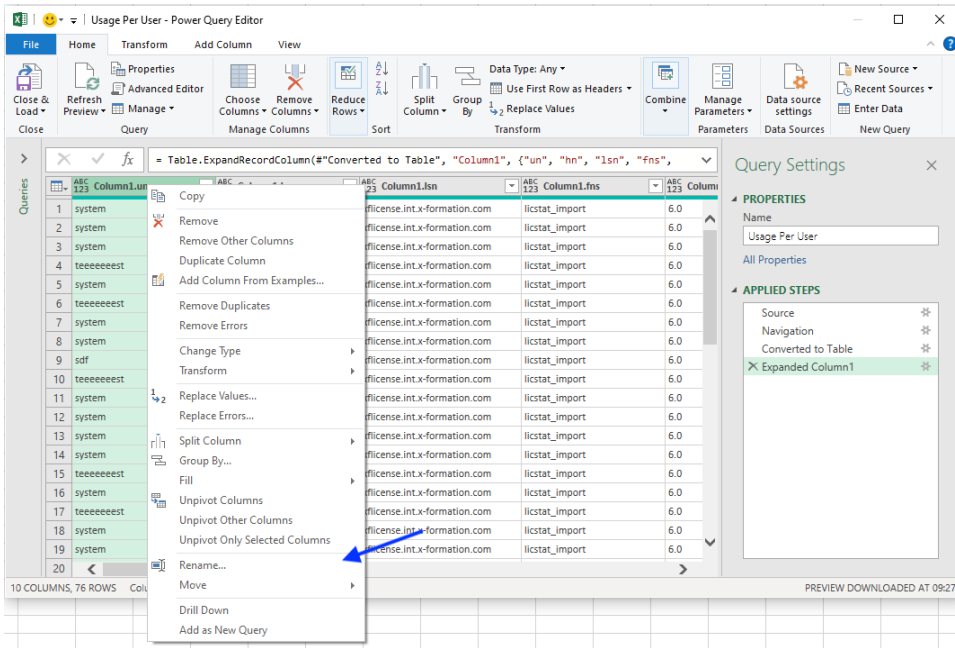
14. Click **Load more** at the bottom of the list to load all the columns.



15. Select the columns to include in the query; for example:

- un
- hn
- lsn
- fns
- fv
- message
- hu
- mu
- ldte
- ft

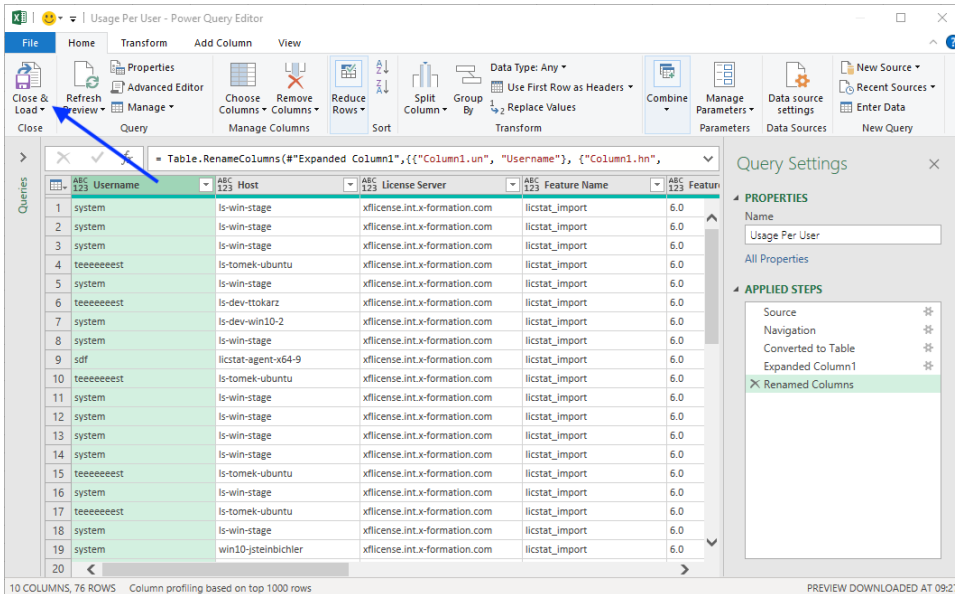
16. Optionally, you can rename columns by right-clicking on the column header and choosing **Rename** from the right-click menu.



For example, you might rename columns to their corresponding label found in License Statistics:

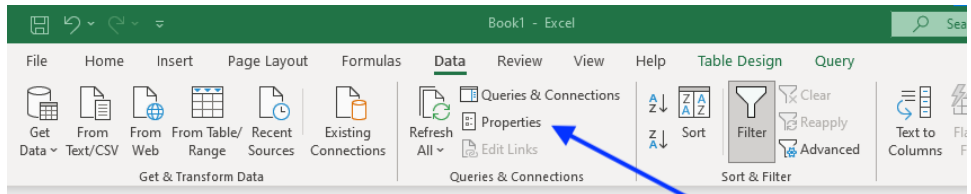
- us = Username
- hn = Host
- lsn = License Server
- fns = Feature Name
- fv = Feature Version
- musage = Max Usage
- hu = Hours Used
- mu = Max Used
- ldtc = Denials
- ft = Total

17. Click **Close & Load**.



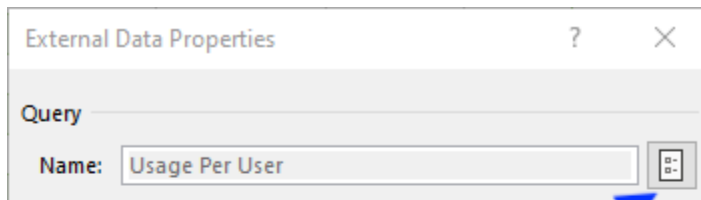
18. If you want to refresh data automatically, perform the following additional steps:

- Go to **Queries & Connections** under Excel's Data tab, and select **Properties**.




	A	B	C	D	E	F	G
1	Username	Host	License Server	Feature Name	Feature Version	Max Usage	Hours Used
2	system	ls-win-stage	xflicense.int.x-formation.com	licstat_import	6.0	2	24
3	system	ls-win-stage	xflicense.int.x-formation.com	licstat_import	6.0	2	24
4	system	ls-win-stage	xflicense.int.x-formation.com	licstat_import	6.0	2	24
5	teeeeeeeest	ls-tomek-ubuntu	xflicense.int.x-formation.com	licstat_import	6.0	2	24
6	system	ls-win-stage	xflicense.int.x-formation.com	licstat_import	6.0	2	24

b. In the External Data Properties dialog, click **Query Properties**.



**External Data Properties**

**Query**

Name:  

**Data formatting and layout**

☐ Include row numbers
 ☒ Preserve column sort/filter/layout  
☒ Adjust column width
 ☒ Preserve cell formatting

If the number of rows in the data range changes upon refresh:

☒ Insert cells for new data, delete unused cells  
☐ Insert entire rows for new data, clear unused cells  
☐ Overwrite existing cells with new data, clear unused cells

OK Cancel

c. Under the Usage tab, set the refresh options as desired.

The screenshot shows the 'Query Properties' dialog box with the 'Usage' tab selected. The 'Query name' is 'Usage Per User'. The 'Refresh control' section is highlighted with a blue border and contains the following options:

- Refresh control**
- Last Refreshed:
- ☒ Enable background refresh
- ☐ Refresh every 60 minutes
- ☐ Refresh data when opening the file
  - ☐ Remove data from the external data range before saving the workbook
- ☒ Refresh this connection on Refresh All
- ☐ Enable Fast Data Load

The 'OLAP Server Formatting' section includes:

- Retrieve the following formats from the server when using this connection:
  - ☐ Number Format
  - ☐ Fill Color
  - ☐ Font Style
  - ☐ Text Color

The 'OLAP Drill Through' section includes:

- Maximum number of records to retrieve: [spinner box]

The 'Language' section includes:

- ☐ Retrieve data and errors in the Office display language when available

At the bottom right are 'OK' and 'Cancel' buttons.