

# How to Import/Export CSV files of MeshDB data

The data in MeshDB is best viewed using the tooling available at [db.nycmesh.net](https://db.nycmesh.net):

- Admin Panel: <https://db.nycmesh.net/admin>
- Legacy Query form: <https://forms.nycmesh.net/query>
- SQL Explorer: <https://db.nycmesh.net/explorer/play/>

However, for some applications these resources may not provide all of the required query and filtering functionality. In these cases, users may want to export meshDB data for direct editing/analysis in spreadsheet editors or other local tools. This page summarizes the options available to do that.

## CSV Export in MeshDB Format

To export individual MeshDB tables in the format used by MeshDB, such as the `Members` table, first open the [MeshDB Admin Panel](#). Next select the table of interest, `Members` in this case:

# Welcome to MeshDB Admin Portal

**AUTHENTICATION AND AUTHORIZATION**

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Users [+ Add](#) [Change](#)

**AUTH TOKEN**

Tokens [+ Add](#) [Change](#)

**WEBHOOKS**

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Devices [+ Add](#) [Change](#)

Installs [+ Add](#) [Change](#)

LOSes [+ Add](#) [Change](#)

Links [+ Add](#) [Change](#)

Members [+ Add](#) [Change](#)

Nodes [+ Add](#) [Change](#)

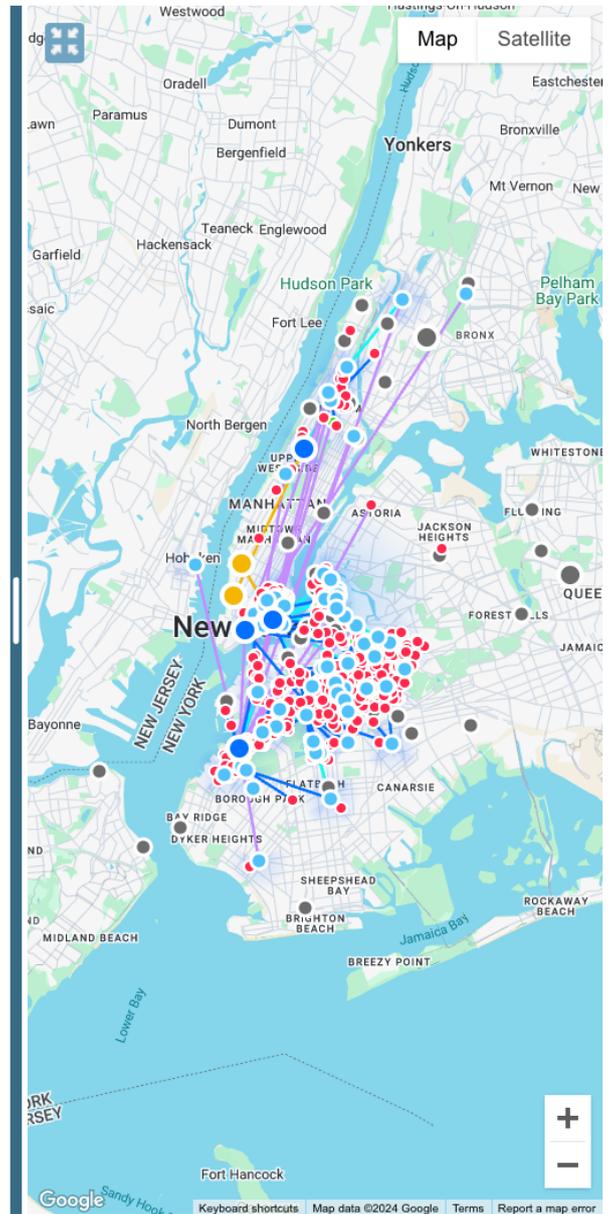
Sectors [+ Add](#) [Change](#)

**SQL EXPLORER**

Database connections [View](#)

Explorer values [View](#)

Queries [View](#)



On the next page, select "Export" to enter the export dialog:

## Select member to change

[IMPORT](#)[EXPORT](#)[ADD MEMBER +](#)Action:   0 of 100 selected

<input type="checkbox"/>	MEMBER	NAME	PRIMARY EMAIL ADDRESS	STRIPE EMAIL ADDRESS	PHONE NUMBER
<input type="checkbox"/>	Suzie Fakename	Suzie Fakename	noreply+test-user-lirGwASb@nycmesh.net	-	+1 585-475-7075
<input type="checkbox"/>	Suzie Fakename	Suzie Fakename	noreply+test-user-rydfWccM@nycmesh.net	-	+1 585-475-7075
<input type="checkbox"/>	Suzie Fakename	Suzie Fakename	noreply+test-user-tFDjCWyB@nycmesh.net	-	+1 585-475-7075
<input type="checkbox"/>	Suzie Fakename	Suzie Fakename	noreply+test-user-tVEFfjKy@nycmesh.net	-	+1 585-475-7075
<input type="checkbox"/>	Suzie Fakename	Suzie Fakename	noreply+test-user-kqfbEXYt@nycmesh.net	-	+1 585-475-7075
<input type="checkbox"/>	Suzie Fakename	Suzie Fakename	noreply+test-user-lZuGDH0l@nycmesh.net	-	+1 585-475-7075
<input type="checkbox"/>	Suzie Fakename	Suzie Fakename	noreply+test-user-tRlnNtfK@nycmesh.net	-	+1 585-475-7075
<input type="checkbox"/>	Suzie Fakename	Suzie Fakename	noreply+test-user-FYBODvFX@nycmesh.net	-	+1 585-475-7075
<input type="checkbox"/>	Suzie Fakename	Suzie Fakename	noreply+test-user-rrDnOJMr@nycmesh.net	-	+1 585-475-7075
<input type="checkbox"/>	Suzie Fakename	Suzie Fakename	noreply+test-user-vQnOPGgQ@nycmesh.net	-	+1 585-475-7075
<input type="checkbox"/>	Suzie Fakename	Suzie Fakename	noreply+test-user-ruCcdAqU@nycmesh.net	-	+1 585-475-7075
<input type="checkbox"/>	Suzie Fakename	Suzie Fakename	noreply+test-user-hvDelQPf@nycmesh.net	-	+1 585-475-7075
<input type="checkbox"/>	Suzie Fakename	Suzie Fakename	noreply+test-user-ttPdZLEX@nycmesh.net	-	+1 585-475-7075
<input type="checkbox"/>	Suzie Fakename	Suzie Fakename	noreply+test-user-pADRhlsk@nycmesh.net	-	+1 585-475-7075

Finally, select "csv" as the output format, click "SUBMIT", and the data will be downloaded:

## Export

Resource:

MemberResource

This exporter will export the following fields:

- Id:
- Name:
- Primary Email Address:
- Stripe Email Address:
- Additional Email Addresses:
- Phone Number:
- Additional Phone Numbers:
- Slack Handle:
- Notes:

Format:

Since we chose to export the data in MeshDB format, it does not include related columns such as install number or node number. These other columns would need to be downloaded separately from their respective tables and joined together with the `id` column on the member table. This is not trivial, so for common cases, like looking up a member's install by their email address, we provide CSV exports that combine these tables automatically, see below.

# CSV Export in Legacy Spreadsheet Format

For convenience and compatibility with legacy scripts and workflows, MeshDB provides a CSV export capability which approximates the columns available in the "New node form responses" spreadsheet

The CSV exports provided in this section are an approximation of the legacy spreadsheet, but are not a perfect recreation. In particular, the notes fields do not match 1:1 with the original spreadsheet due to the way that the notes are parsed, split, and automatically created during the spreadsheet import process. Some smaller details like the exact install used for the `X` pointer on NN re-use may also vary a bit. This query should not be used to replace the contents of the existing spreadsheet wholesale without careful consideration

To access this capability, use the following links, or navigate via the SQL Explorer homepage:

The screenshot shows the SQL Explorer interface. At the top, there's a navigation bar with "New Query", "Playground", "Logs", and "Favorites". Below that, a section titled "Recently Run by You" lists several queries with their last run times and CSV export links. A red arrow points from the "Email from NN" query in this list to the "All Queries" section below. The "All Queries" section is a table with columns for Query, Created, CSV, Play, Delete, Favorite, Last Run, Run Count, and Connection. The "Email from NN" query is highlighted in blue, and a red arrow points to it from the "Recently Run by You" section.

Query	Last Run	CSV
<a href="#">Export Legacy Spreadsheet Links Tab</a>	10/21/2024 11:34 p.m.	<a href="#">↓</a>
<a href="#">Export Legacy Spreadsheet Installs/Nodes Tab</a>	10/21/2024 11:25 p.m.	<a href="#">↓</a>
<a href="#">Export Legacy Spreadsheet Sectors Tab</a>	10/21/2024 12:49 a.m.	<a href="#">↓</a>
<a href="#">Email from NN</a>	10/10/2024 1:51 p.m.	<a href="#">↓</a>
<a href="#">Member objects with no associated install</a>	10/09/2024 11:48 a.m.	<a href="#">↓</a>

Query	Created	CSV	Play	Delete	Favorite	Last Run	Run Count	Connection
<a href="#">Email from NN</a>	10/09/24 by johnb	<a href="#">↓</a>	<a href="#">▶</a>	<a href="#">🗑️</a>	<a href="#">♥️</a>	10/22/24	36	readonly
<a href="#">Export Legacy Spreadsheet Installs/Nodes Tab</a>	10/21/24 by andrewd	<a href="#">↓</a>	<a href="#">▶</a>	<a href="#">🗑️</a>	<a href="#">♥️</a>	10/21/24	11	readonly
<a href="#">Export Legacy Spreadsheet Links Tab</a>	10/21/24 by andrewd	<a href="#">↓</a>	<a href="#">▶</a>	<a href="#">🗑️</a>	<a href="#">♥️</a>	10/21/24	37	readonly
<a href="#">Export Legacy Spreadsheet Sectors Tab</a>	10/21/24 by andrewd	<a href="#">↓</a>	<a href="#">▶</a>	<a href="#">🗑️</a>	<a href="#">♥️</a>	10/21/24	3	readonly
<a href="#">Member objects with no associated install</a>	10/09/24 by andrewd	<a href="#">↓</a>	<a href="#">▶</a>	<a href="#">🗑️</a>	<a href="#">♥️</a>	10/09/24	14	readonly
<a href="#">Nodes near existing node</a>	09/29/24 by jameso	<a href="#">↓</a>	<a href="#">▶</a>	<a href="#">🗑️</a>	<a href="#">♥️</a>	10/09/24	7	readonly

Powered by SQL Explorer. Rendered at 10/22/2024 12:03 a.m.

These queries can also be accessed by the following direct links:

- [Export Legacy Spreadsheet Installs/Nodes Tab](#)
- [Export Legacy Spreadsheet Links Tab](#)

- [Export Legacy Spreadsheet Sectors Tab](#)

Use the "Download" button and select "CSV" as the type:

The screenshot shows the SQL Explorer interface. At the top left is the SQL Explorer logo. On the right, there are navigation links: New Query, Playground, Logs, and Favorites. The main content area is titled "Export Legacy Spreadsheet Installs/Nodes Tab". Below the title is a "Title" field containing "Export Legacy Spreadsheet Installs/Nodes Tab" and a "Description" field with a detailed note about the view's composition. A SQL query is displayed in a code editor, starting with "SELECT \* FROM (" and ending with "as 'Referral'". Below the query is a toolbar with buttons: "Save & Run", "Save Only", "Download...", "Hide Schema", and "Format". A dropdown menu is open under "Download...", showing "CSV" and "JSON" options. Red arrows point from the "Download..." button to the dropdown menu and from the "CSV" option back to the button. On the right side, there is a "Schema" panel with a search bar and two buttons: "Collapse Tables" and "Expand Tables". Below this, several table schemas are listed, including "meshapi\_accesspoint", "meshapi\_building", "meshapi\_building\_nodes", and "meshapi\_device", each with its columns and data types.

## CSV Import in MeshDB Format

These instructions cover the general process for importing a CSV into MeshDB, for a bulk import of partner data for example. For creating many installs in a large building, there is a more specific guide [here](#)

Editing large quantities of MeshDB data using CSV import can unintentionally have a large impact on the quality of MeshDB data. Though edits using this feature are supported, this process should primarily be used for imports of new data, rather than edits to existing data. For bulk edits to existing data, a [Django Migration](#) in the source code should probably be used instead

To import data to individual MeshDB tables in the format used by MeshDB, such as the `Members` table, first open the [MeshDB Admin Panel](#). Next select the table of interest, `Members` in this case:

## Welcome to MeshDB Admin Portal

**AUTHENTICATION AND AUTHORIZATION**

- Groups View
- Users + Add Change

**AUTH TOKEN**

- Tokens + Add Change

**WEBHOOKS**

- Webhook Targets + Add Change

**DJANGO FLAGS**

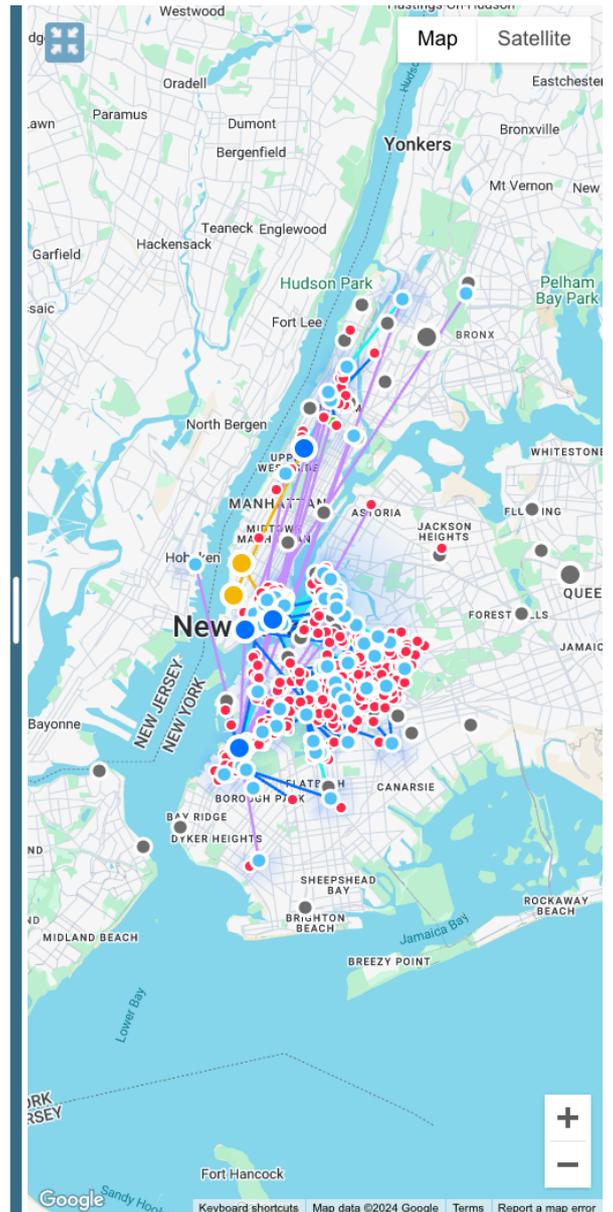
- Flag states View

**MESHAPI**

- Access points + Add Change
- Buildings + Add Change
- Devices + Add Change
- Installs + Add Change
- LOSes + Add Change
- Links + Add Change
- Members + Add Change
- Nodes + Add Change
- Sectors + Add Change

**SQL EXPLORER**

- Database connections View
- Explorer values View
- Queries View



On the next page, select "Import" to enter the import dialog

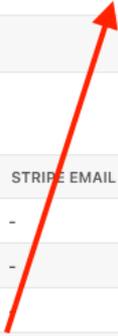
## Select member to change

IMPORT EXPORT ADD MEMBER +

Q  Search

Action:  Go 0 of 100 selected

<input type="checkbox"/>	MEMBER	NAME	PRIMARY EMAIL ADDRESS	STRIPE EMAIL ADDRESS	PHONE NUMBER
<input type="checkbox"/>	Suzie Fakename	Suzie Fakename	noreply+test-user-lirGwASb@nycmesh.net	-	+1 585-475-7075
<input type="checkbox"/>	Suzie Fakename	Suzie Fakename	noreply+test-user-rydfWccM@nycmesh.net	-	+1 585-475-7075
<input type="checkbox"/>	Suzie Fakename	Suzie Fakename	noreply+test-user-tFDjCWyB@nycmesh.net	-	+1 585-475-7075
<input type="checkbox"/>	Suzie Fakename	Suzie Fakename	noreply+test-user-tVEFfjKy@nycmesh.net	-	+1 585-475-7075
<input type="checkbox"/>	Suzie Fakename	Suzie Fakename	noreply+test-user-kqfbEXYt@nycmesh.net	-	+1 585-475-7075
<input type="checkbox"/>	Suzie Fakename	Suzie Fakename	noreply+test-user-lZuGDHoI@nycmesh.net	-	+1 585-475-7075
<input type="checkbox"/>	Suzie Fakename	Suzie Fakename	noreply+test-user-rInNtfK@nycmesh.net	-	+1 585-475-7075
<input type="checkbox"/>	Suzie Fakename	Suzie Fakename	noreply+test-user-FYBODvFX@nycmesh.net	-	+1 585-475-7075
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<input type="checkbox"/>	Suzie Fakename	Suzie Fakename	noreply+test-user-pADRhlsk@nycmesh.net	-	+1 585-475-7075



In the import dialog, select the CSV file you would like to import from (likely an edited export created using the instructions above):

# Import

This importer will import the following fields: id, name, primary\_email\_address, stripe\_email\_address, additional\_email\_addresses, phone\_number, additional\_phone\_numbers, slack\_handle, notes

Resource:  
MemberResource

File to import:  
 Member-2024-10-22.csv

Format:

On the following screen, confirm the accuracy of the data, including that the rows are showing as either "Update" or "Create" as expected based on the desired editing:

# Import

Below is a preview of data to be imported. If you are satisfied with the results, click 'Confirm import'

## Preview

	ID	NAME	PRIMARY_EMAIL_ADDRESS	STRIPE_EMAIL_ADDRESS	ADDITIONAL_EMAIL_ADDRESSES	PHONE_NUMBER	ADDITIONAL_PHONE_NUMBERS	SLACK
Update	00000000-0000-0000-0000-000000000003	Kevin	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Update	00000000-0000-0000-0000-000000000004	Tommy	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Update	00000000-0000-0000-0000-000000000005	DBA	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Update	00000000-0000-0000-0000-000000000006	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Update	00000000-0000-0000-0000-000000000007	NYC Mesh	contact@nycmesh.net	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

