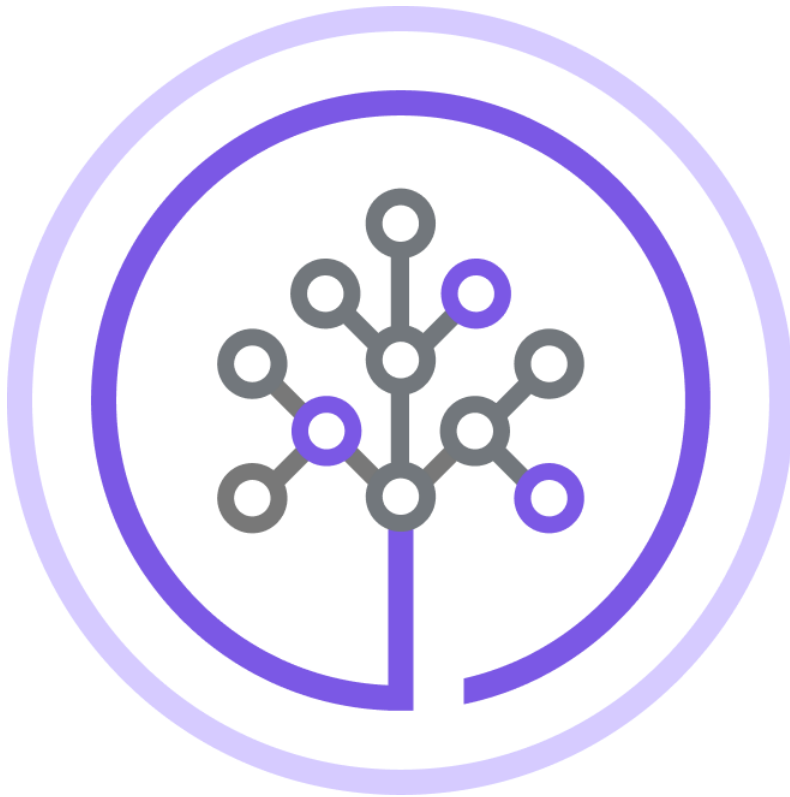


## Hands-on Lab: Upload and Export using Datasette



# Skills Netw

**Estimated time needed:** 15 minutes

In this lab, you will learn how to upload and export data in a table using Datasette.

## Objectives

After completing this lab, you will be able to use the Datasette:

- Upload CSV file onto a table in Datasette.
- Export data from Datasette.

## Required Software

In this lab, you will use Datasette, an open-source multi-tool for exploring and publishing data.

## Database

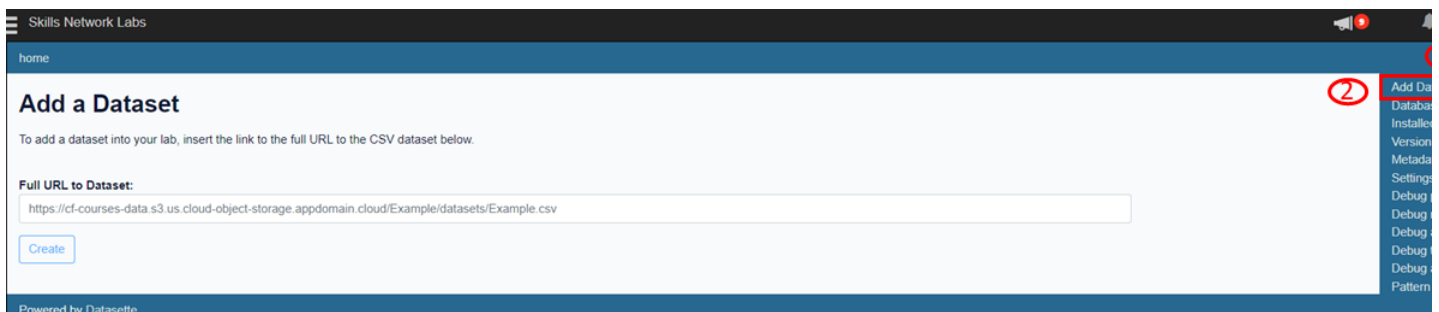
The first dataset used in this lab comes from the following source: <https://dataplatfom.cloud.ibm.com/exchange/public/entry/view/5562ced564e776edc5f91e13d48d8309?context=cpdaas>. This dataset is published by **IBM** and contains point data for a sample list of hospitals in the US.

Note that this is sample data for SQL demo purposes and is not necessarily current or accurate.

## Exercise 1: Upload Data into a Datasette by creating a table.

In this exercise, you will go through an example of uploading a CSV file and creating a table using the Datasette tool.

1. Once the Datasette tool is launched using the open tool, click on the **Navigation Tool** and then select **Add DataSets** option at the right-end corner.



2. You will then be redirected to a page where you need to enter the full URL of the CSV dataset in the text box.

Right-click on the link  
([Hospitals.csv](#)) and copy the link address.

Enter the copied URL in the text box and click on **Create**.

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### Add a Dataset

To add a dataset into your lab, insert the link to the full URL to the CSV dataset below.

Full URL to Dataset:

<https://cf-courses-data.s3.us.cloud-object-storage.appdomain.cloud/IBM-DB0231EN-SkillsNetwork/datasets/hospitals.csv>

Create

Powered by Datasella

3. Then this will create the HOSPITALS table with the data loaded from the CSV file.

A **select** query related to the table will default appear in the text area section.

Click on the **Submit Query** button to view the results.

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### Practice SQL

Database: hospitals

SELECT \* FROM hospitals;

Tip: Autocomplete with Ctrl+Enter or Cmd+Enter

Submit query

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5. You have successfully created and loaded the **HOSPITALS** table.

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### Practice SQL

Database: hospitals

SELECT \* FROM hospitals;

Tip: Autocomplete with Ctrl+Enter or Cmd+Enter

Submit query

### Results

All commands ran successfully

SELECT \* FROM hospitals

id	name	city	state	lon	lat
1	Southern Hills Medical Center	BERRY HILL	TN	-86.721939	36.077843
2	Sycamore Shoals	ELIZABETHTON	TN	-82.247635	36.346218

6. Modify your select query as below to get the total number of records in the table.

```
1. 1
1. SELECT count(*) FROM hospitals;
```

Copied!

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home / hospitals

## Practice SQL

Database: hospitals

```
SELECT count(*) FROM hospitals;
```

Tip: Autocomplete with Ctrl+Enter or Cmd+Enter

Submit query

### Results

All commands ran successfully

SELECT count(*) FROM hospitals
count(*)
6501

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## Exercise 2: Export a Table from Datasette.

In Exercise 1, you have learned how to upload data from a file into a Datasette database. Now, in this exercise, you will export a table from the database into a CSV file.

1. First, click the **home** link at the top of the page in the tool.

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home / hospitals

## Practice SQL

Database: hospitals

```
SELECT * FROM hospitals;
```

Tip: Autocomplete with Ctrl+Enter or Cmd+Enter

Submit query

2. Click on the **hospitals** table link as highlighted below:

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## Datasette

[\\_memory](#)

0 tables

[\\_internal](#)

77 rows in 5 tables

[columns](#), [foreign\\_keys](#), [tables](#), [indexes](#), [databases](#)

[SanFranciscoFilmLocations](#)

1 table

[FilmLocations](#)

[hospitals](#)

6,501 rows in 1 table

hospitals

Powered by Datasette

3. Right-click on the **CSV** and copy the **link address**.

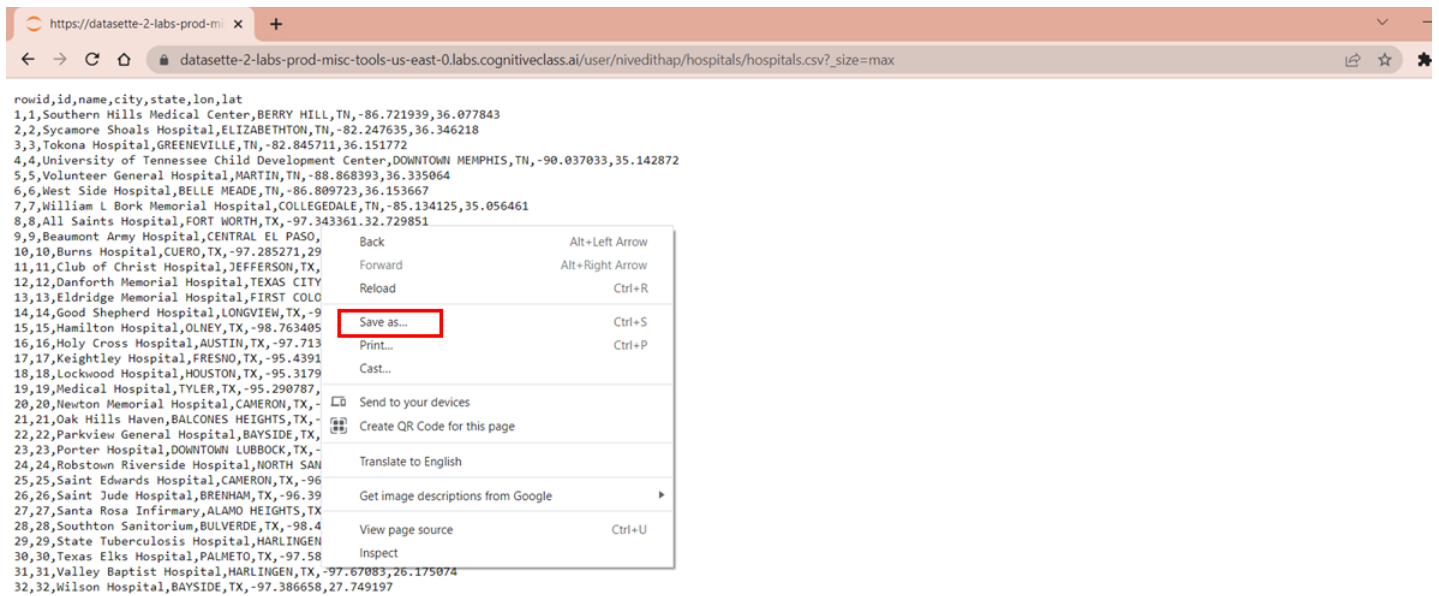
The screenshot shows the Skills Network Labs interface. At the top, there's a navigation bar with 'home / hospitals'. Below it, the title 'hospitals' is displayed. A message indicates '6,501 rows'. There's a search bar and an 'Apply' button. A link 'View and edit SQL' is visible. The main content area shows a table of hospital data. A right-click context menu is open over the 'CSV' link, with 'Copy link address' highlighted. The table data includes columns for rowid, id, name, city, state, lon, and lat.

rowid	id	name	city	state	lon	lat
1	1	Southern Hills Medical Center	BERRY HILL	TN	-86.721939	36.077843
2	2	Sycamore Shoals Hospital	ELIZABETHTON	TN	-82.247635	36.346218
3	3	Tokona Hospital	GREENEVILLE	TN	-82.845711	36.151772
4	4	University of Tennessee Child Development Center	DOWNTOWN MEMPHIS	TN	-90.037033	35.142872
5	5	Volunteer General Hospital	MARTIN	TN	-88.868393	36.335064
6	6	West Side Hospital	BELLE MEADE	TN	-86.809723	36.153667
7	7	William L Bork Memorial Hospital	COLLEGE DALE	TN	-85.134125	35.056461
8	8	All Saints Hosnital	FORT WORTH	TX	-97.343361	32.729851

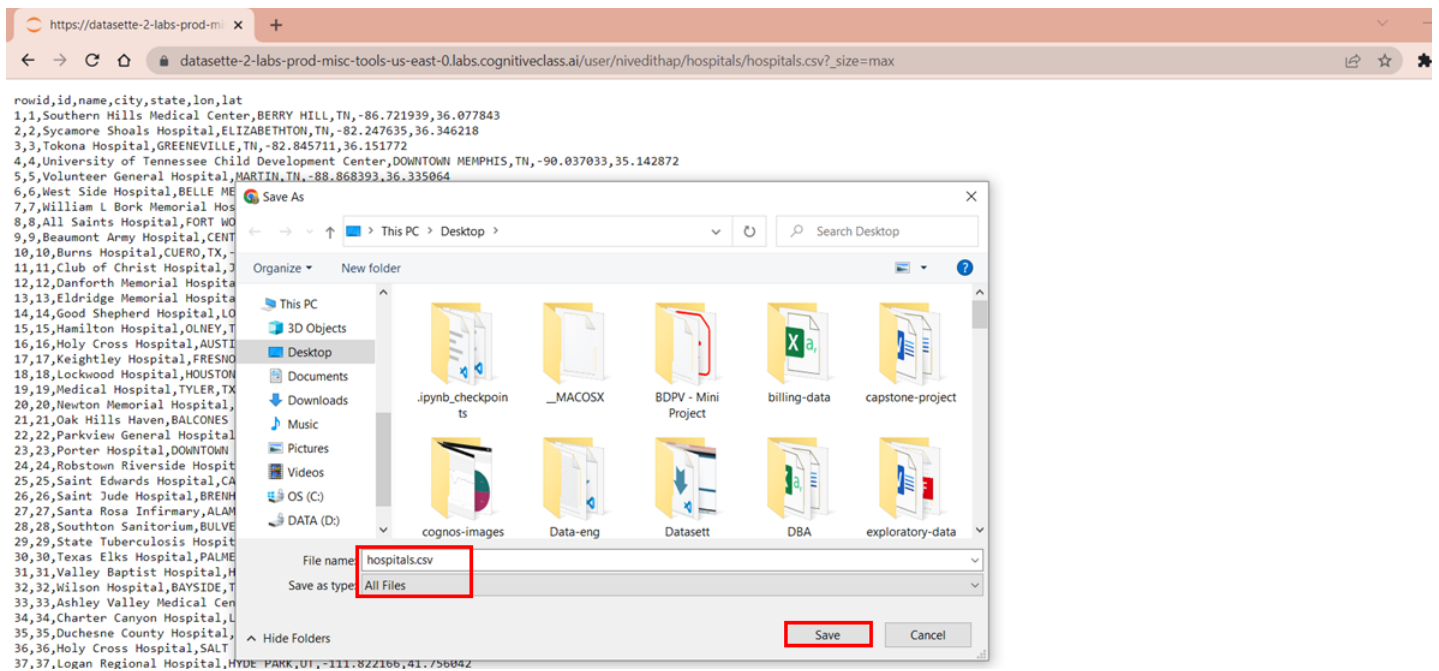
4. Paste the URL in a new **tab** and press **ENTER**. Now this will display all the data present in the table.

The screenshot shows a web browser window. The address bar contains the URL 'datasette-2-labs-prod-misc-tools-us-east-0.labs.cognitiveclass.ai/user/nivedithap/hospitals/hospitals.csv?\_size=max'. The page content displays a long list of hospital data rows, including columns for rowid, id, name, city, state, lon, and lat. The list starts with '1,1,Southern Hills Medical Center,BERRY HILL,TN,-86.721939,36.077843' and continues down to '42,42,Alexandria Hospital,ALEXANDRIA,MD,-77.106094,38.822334'.

5. To save the file, right-click and select **SAVE-AS**.



6. Enter **File-name.csv**, select **All files** from the drop-down, and click on **SAVE**.



7. Finally, your downloaded CSV file will appear as shown below:

File Home Insert Page Layout Formulas Data Review View Help										Comment									
Undo		Clipboard		Font		Alignment		Number		Styles		Cells		Editing		Analysis		Sent	
A1		rowid																	
1	rowid	id	name	city	state	lon	lat												
2	1	1	Southern H	BERRY HIL	TN	-86.7219	36.07784												
3	2	2	Sycamore	ELIZABETH	TN	-82.2476	36.34622												
4	3	3	Tokona Hc	GREENEVI	TN	-82.8457	36.15177												
5	4	4	University	DOWNTON	TN	-90.037	35.14287												
6	5	5	Volunteer	MARTIN	TN	-88.8684	36.33506												
7	6	6	West Side	BELLE ME	TN	-86.8097	36.15367												
8	7	7	William L E	COLLEGED	TN	-85.1341	35.05646												
9	8	8	All Saints F	FORT WOLF	TX	-97.3434	32.72985												
10	9	9	Beaumont	CENTRAL I	NM	-106.454	31.82205												
11	10	10	Burns Hos	CUERO	TX	-97.2853	29.09942												
12	11	11	Club of Ch	JEFFERSON	TX	-94.3474	32.44071												
13	12	12	Danforth M	TEXAS CIT	TX	-94.9013	29.39273												
14	13	13	Eldridge M	FIRST COL	TX	-95.6174	29.62802												
15	14	14	Good She	LONGVIEW	TX	-94.7308	32.50098												
16	15	15	Hamilton F	OLNEY	TX	-98.7634	33.36928												
17	16	16	Holy Cross	AUSTIN	TX	-97.7131	30.28188												
18	17	17	Keightley F	FRESNO	TX	-95.4391	29.6069												
19	18	18	Lockwood	HOUSTON	TX	-95.318	29.80606												
20	19	19	Medical Hi	TYLER	TX	-95.2908	32.33821												
21	20	20	Newton M	CAMERON	TX	-96.9808	30.85491												
22	21	21	Oak Hills H	BALCONES	TX	-98.5745	29.50162												
23	22	22	Parkview C	BAYSIDE	TX	-97.393	27.72892												
24	23	23	Porter Hos	DOWNTON	TX	-101.867	33.57731												
25	24	24	Robstown	NORTH SA	TX	-97.6353	27.85502												
26	25	25	Saint Edw	CAMERON	TX	-96.9772	30.8588												
27	26	26	Saint Jude	BRENNHAM	TX	-96.3994	30.17966												
28	27	27	Santa Ros	ALAMO HE	TX	-98.4986	29.4269												

## Author(s)

- Niveditha Pandith

## Changelog

Date	Version	Changed by	Change Description
2021-07-08	1.0	Sandip Saha Joy	Created initial version
2021-10-04	2.0	David Pasternak	Rewrote with updated instructions
2022-05-28	2.1	Niveditha	Converted initial version to Datasette
2023-05-08	2.2	Eric Hao	Updated Page Frames

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