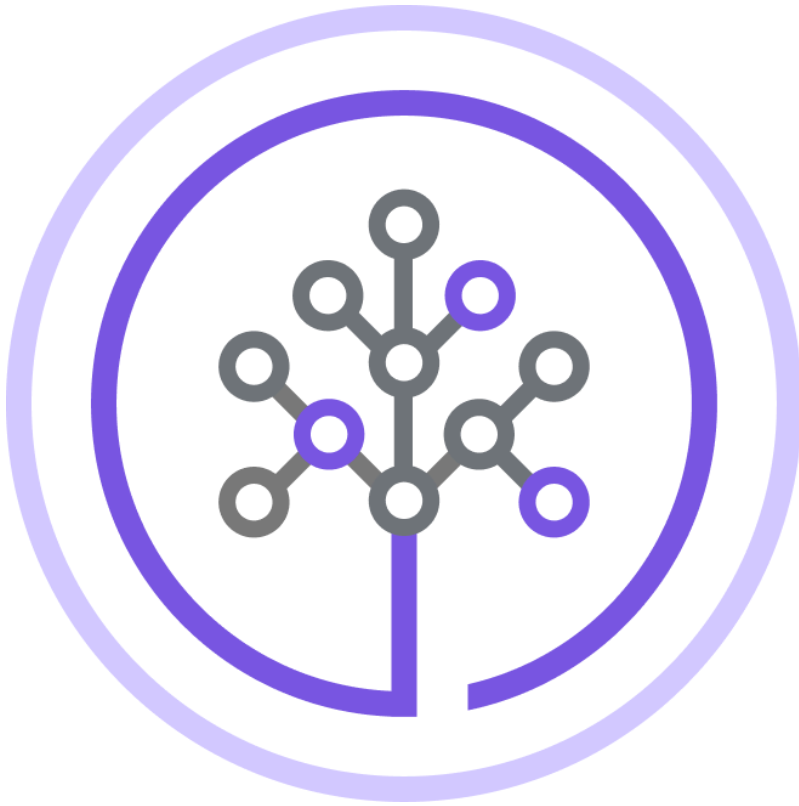


Hands-on Lab: Upload and Export using Datasette



Skills Network

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

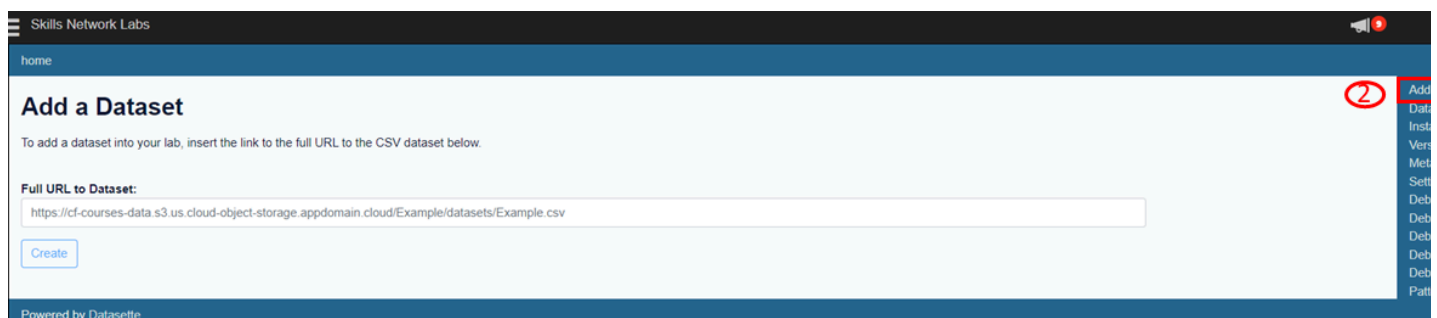
The first dataset used in this lab comes from the following source: <https://datapatform.cloud.ibm.com/exchange/public/entry/view/5562ced564e776edc5f91e13d48d8309?context=cpdaas>. This dataset is published by **IBM** and contains point data for a sample list of hospitals in the US.

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**.

Skills Network Labs

home

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 Dataslette

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.

Skills Network Labs

home / hospitals

Practice SQL

Database: hospitals

SELECT * FROM hospitals;

Tip: Autocomplete with Ctrl+Enter or Cmd+Enter

Submit query

Powered by Dataslette

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

Skills Network Labs

home / hospitals

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.

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

The screenshot shows the 'Practice SQL' interface in Skills Network Labs. The database is set to 'hospitals'. The query 'SELECT count(*) FROM hospitals;' is entered in the text area. Below the query, a green bar indicates 'All commands ran successfully'. The results are displayed in a table with one row: 'count(*)' and '6501'. The 'home' link in the top navigation bar is highlighted with a red box.

count(*)
6501

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.

The screenshot shows the 'Practice SQL' interface. The 'home' link in the top navigation bar is highlighted with a red box. The query 'SELECT * FROM hospitals;' is entered in the text area. Below the query, a green bar indicates 'All commands ran successfully'. The results are displayed in a table with one row: 'count(*)' and '6501'.

count(*)
6501

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

The screenshot shows the Datasette interface. The 'hospitals' table link is highlighted with a red box. The interface shows the following information:

- Datasette**
- memory**: 0 tables
- internal**: 77 rows in 5 tables
- SanFranciscoFilmLocations**: 1 table
- hospitals**: 6,501 rows in 1 table

The 'hospitals' table link is highlighted with a red box.

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

Skills Network Labs

home / hospitals

hospitals

6,501 rows

- column - =

Apply

View and edit SQL

This data as **JSON** **CSV** (advanced)

Show charting options

Open link in new tab
Open link in new window
Open link in incognito window
Save link as...
Copy link address
Get image descriptions from Google
Inspect

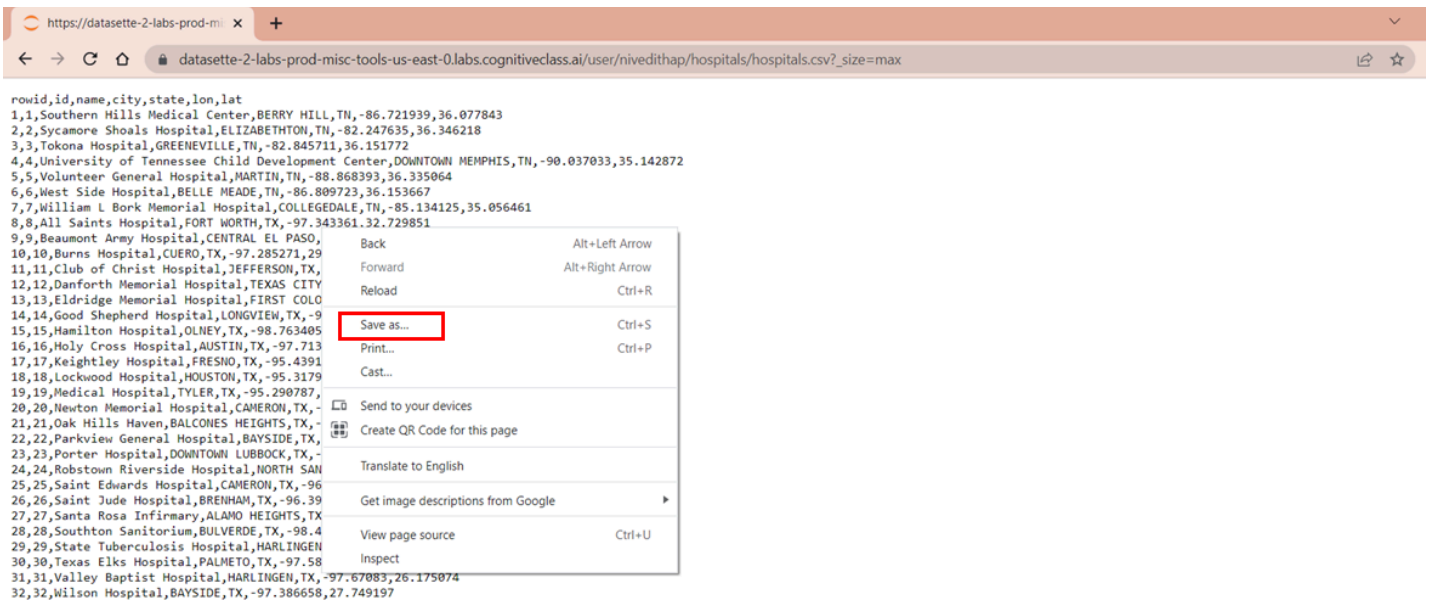
Link	rowid	id	city	state	lon	lat
1	1	1	BERRY HILL	TN	-86.721939	36.077843
2	2	2	ELIZABETHTON	TN	-82.247635	36.346218
3	3	3	GREENEVILLE	TN	-82.845711	36.151772
4	4	4	DOWNTOWN MEMPHIS	TN	-90.037033	35.142872
5	5	5	MARTIN	TN	-88.868393	36.335064
6	6	6	BELLE MEADE	TN	-86.809723	36.153667
7	7	7	COLLEGE DALE	TN	-85.134125	35.056461
8	8	8	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.

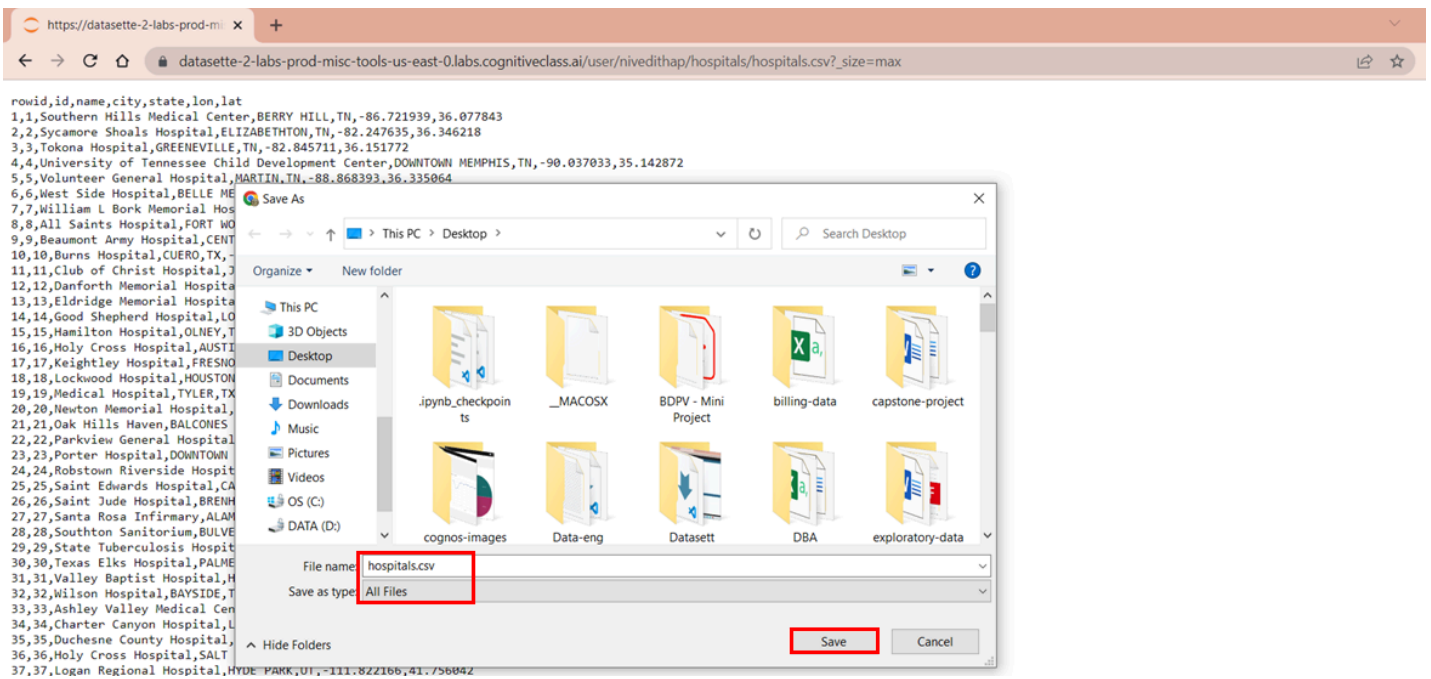
https://datasette-2-labs-prod-misc-tools-us-east-0.labs.cognitiveclass.ai/user/nivedithap/hospitals/hospitals.csv?_size=max

```
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 Hospital,FORT WORTH,TX,-97.343361,32.729851
9,9,Beaumont Army Hospital,CENTRAL EL PASO,NM,-106.453598,31.822046
10,10,Burns Hospital,CUERO,TX,-97.285271,29.099424
11,11,Club of Christ Hospital,JEFFERSON,TX,-94.34742,32.440712
12,12,Danforth Memorial Hospital,TEXAS CITY,TX,-94.901306,29.392733
13,13,Eldridge Memorial Hospital,FIRST COLONY,TX,-95.617439,29.628016
14,14,Good Shepherd Hospital,LONGVIEW,TX,-94.730774,32.50098
15,15,Hamilton Hospital,OLNEY,TX,-98.763405,33.369278
16,16,Holy Cross Hospital,AUSTIN,TX,-97.713066,30.281878
17,17,Keightley Hospital,FRESNO,TX,-95.43911,29.606903
18,18,Lockwood Hospital,HOUSTON,TX,-95.317993,29.806057
19,19,Medical Hospital,TYLER,TX,-95.290787,32.338207
20,20,Newton Memorial Hospital,CAMERON,TX,-96.980827,30.854908
21,21,Oak Hills Haven,BALCONES HEIGHTS,TX,-98.574471,29.501621
22,22,Parkview General Hospital,BAYSIDE,TX,-97.393044,27.728918
23,23,Porter Hospital,DOWNTOWN LUBBOCK,TX,-101.867386,33.577305
24,24,Robstown Riverside Hospital,NORTH SAN PEDRO,TX,-97.635277,27.855021
25,25,Saint Edwards Hospital,CAMERON,TX,-96.977203,30.858799
26,26,Saint Jude Hospital,BRENNHAM,TX,-96.399414,30.179655
27,27,Santa Rosa Infirmary,ALAMO HEIGHTS,TX,-98.498627,29.426903
28,28,Southton Sanitorium,BULVERDE,TX,-98.421677,29.312176
29,29,State Tuberculosis Hospital,HARLINGEN,TX,-97.706375,26.159523
30,30,Texas Elks Hospital,PALMETO,TX,-97.582497,29.595232
31,31,Valley Baptist Hospital,HARLINGEN,TX,-97.67083,26.175074
32,32,Wilson Hospital,BAYSIDE,TX,-97.386658,27.749197
33,33,Ashley Valley Medical Center,MAESER,UT,-109.530975,40.458023
34,34,Charter Canyon Hospital,LINDON,UT,-111.664085,40.310513
35,35,Duchesne County Hospital,BALLARD,UT,-109.996262,40.304127
36,36,Holy Cross Hospital,SALT LAKE CITY,UT,-111.861053,40.768005
37,37,Logan Regional Hospital,HYDE PARK,UT,-111.822166,41.756042
38,38,Orem Community Hospital,LINDON,UT,-111.705482,40.305515
39,39,Saint Benedicts Hospital,CLEARFIELD,UT,-111.970215,41.163273
40,40,Shriners Hospital,SALT LAKE CITY,UT,-111.851334,40.777725
41,41,Utah Valley Regional Medical Center,OREM,UT,-111.665474,40.247173
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:

FileHomeInsertPage LayoutFormulasDataReviewViewHelp

Calibri

11

A⁺

B

I

U

Wrap Text

General

Conditional Formatting

Format as Table

Cell Styles

Insert

Delete

Format

Number

Styles

Cells

Editing

Analysis

Undo

Clipboard

Font

Alignment

Number

Styles

Cells

Editing

Analysis

A1

rowid

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
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	DOWNTOW	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	COLLEGE	TN	-85.1341	35.05646															
9	8	8	All Saints H	FORT WOLF	TX	-97.3434	32.72985															
10	9	9	Beaumont	CENTRAL	IN	-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 H	TEXAS CITY	TX	-94.9013	29.39273															
14	13	13	Eldridge M	FIRST COL	TX	-95.6174	29.62802															
15	14	14	Good Shep	LONGVIEW	TX	-94.7308	32.50098															
16	15	15	Hamilton H	OLNEY	TX	-98.7634	33.36928															
17	16	16	Holy Cross	AUSTIN	TX	-97.7131	30.28188															
18	17	17	Keightley H	FRESNO	TX	-95.4391	29.6069															
19	18	18	Lockwood	HOUSTON	TX	-95.318	29.80606															
20	19	19	Medical H	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	DOWNTOW	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 Rosi	ALAMO HE	TX	-98.4986	29.4269															

hospitals

ReadyAccessibility: Unavailable

Author(s)

- Niveditha Pandith