

Skills Network

Hands-on Lab: Upload and Export using Datasette

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:

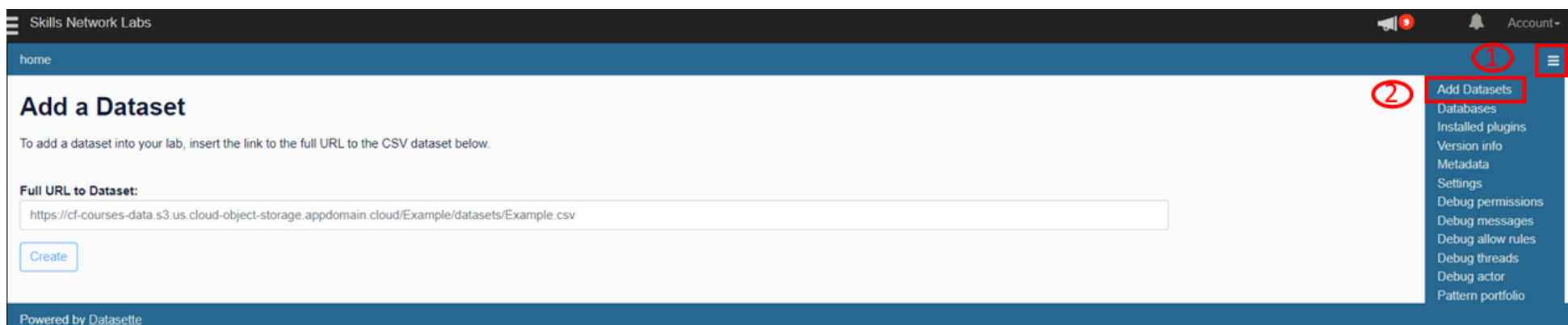
<https://datapatform.cloud.ibm.com/exchange/public/entry/view/5562ced564e776edc5f91e13d48d8309?context=cpdaas>. This dataset is published by **IBM** and contains point data for a sample list of hospitals in the US.

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.

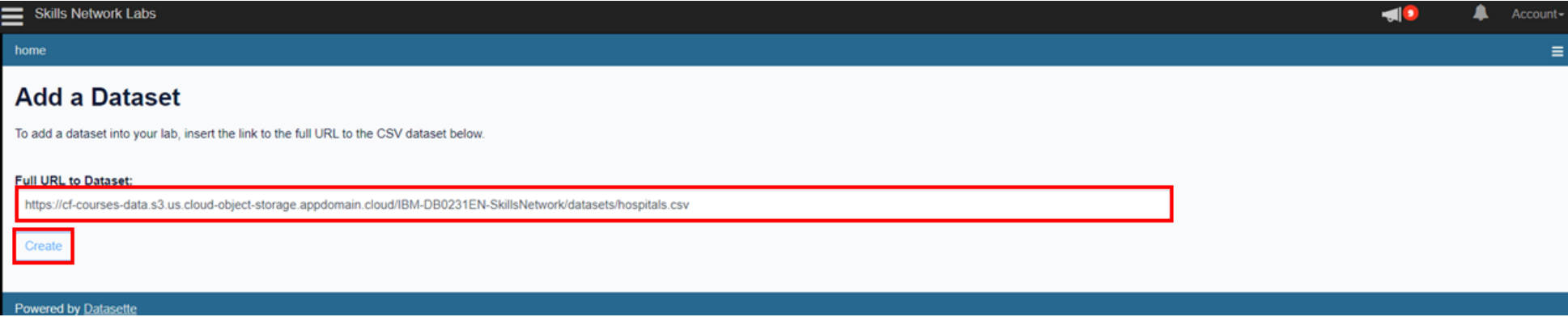
1. Once the Datasette tool is launched using the open tool, click on the **Navigation Tool** and then select **Add DataSets** option at the right-end corner.



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.

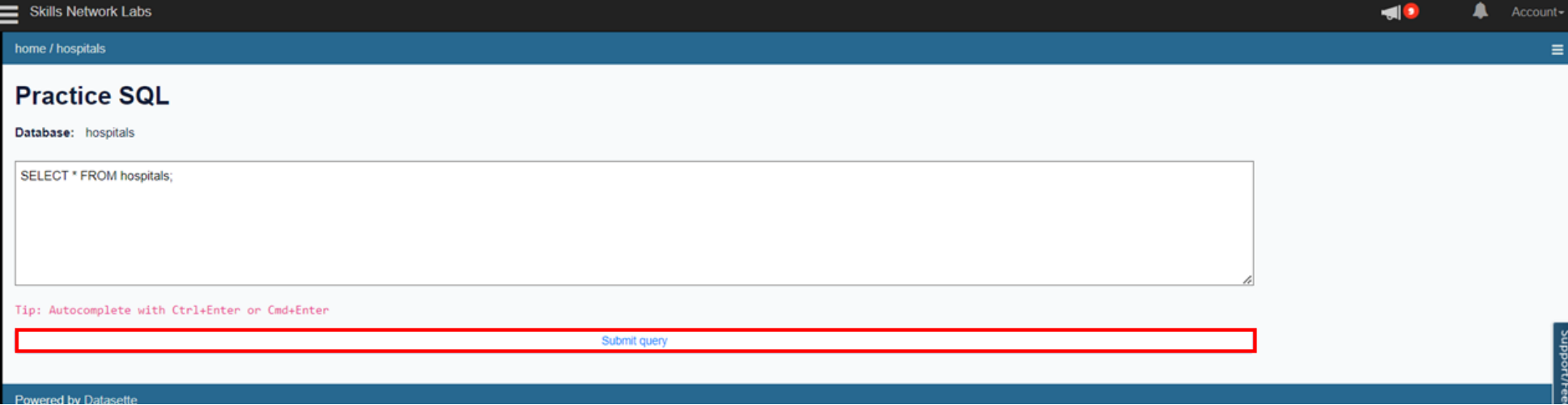
Enter the copied URL in the text box and click on **Create**.



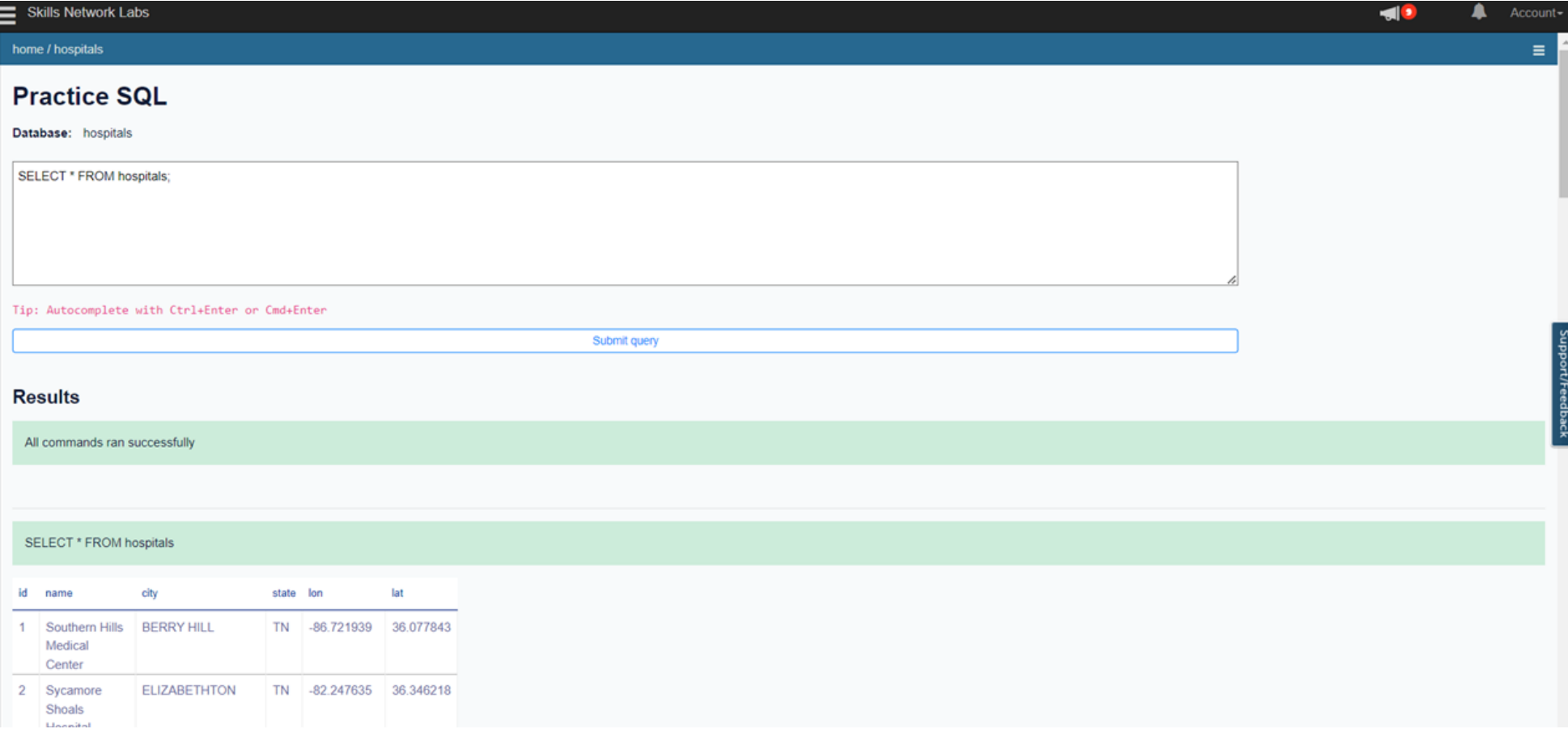
3. Then this will create the HOSPITALS table with the data loaded from the CSV file.

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.

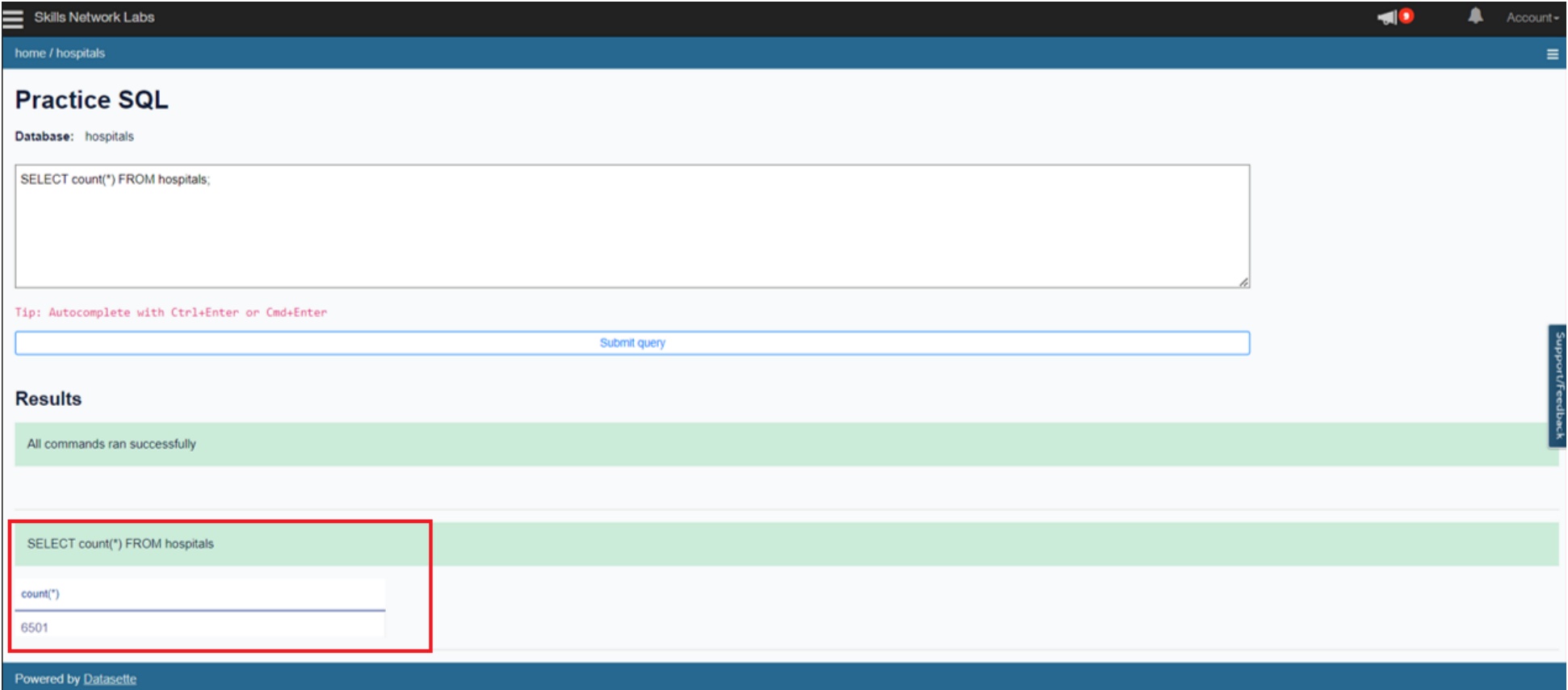


5. You have successfully created and loaded the **HOSPITALS** table.



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

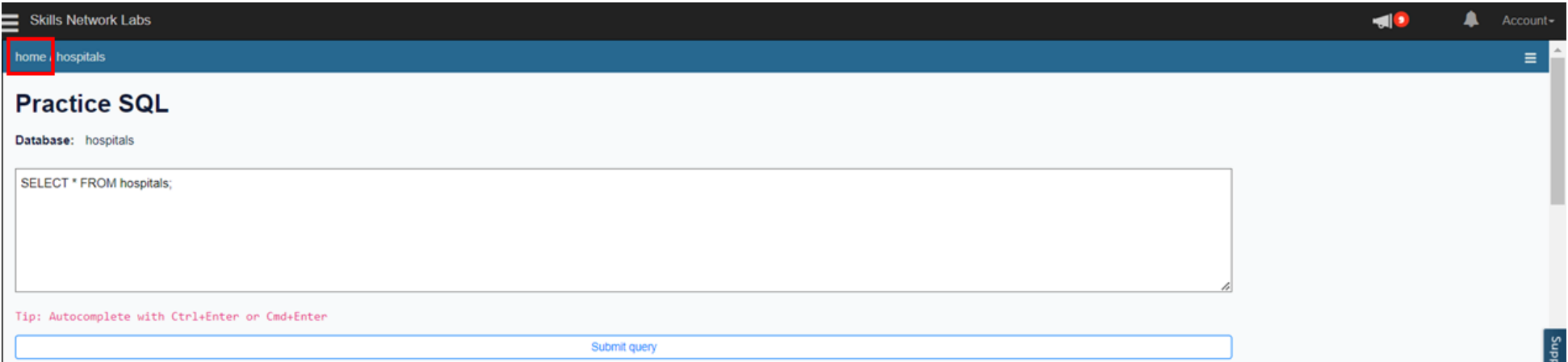
```
SELECT count(*) FROM hospitals;
```



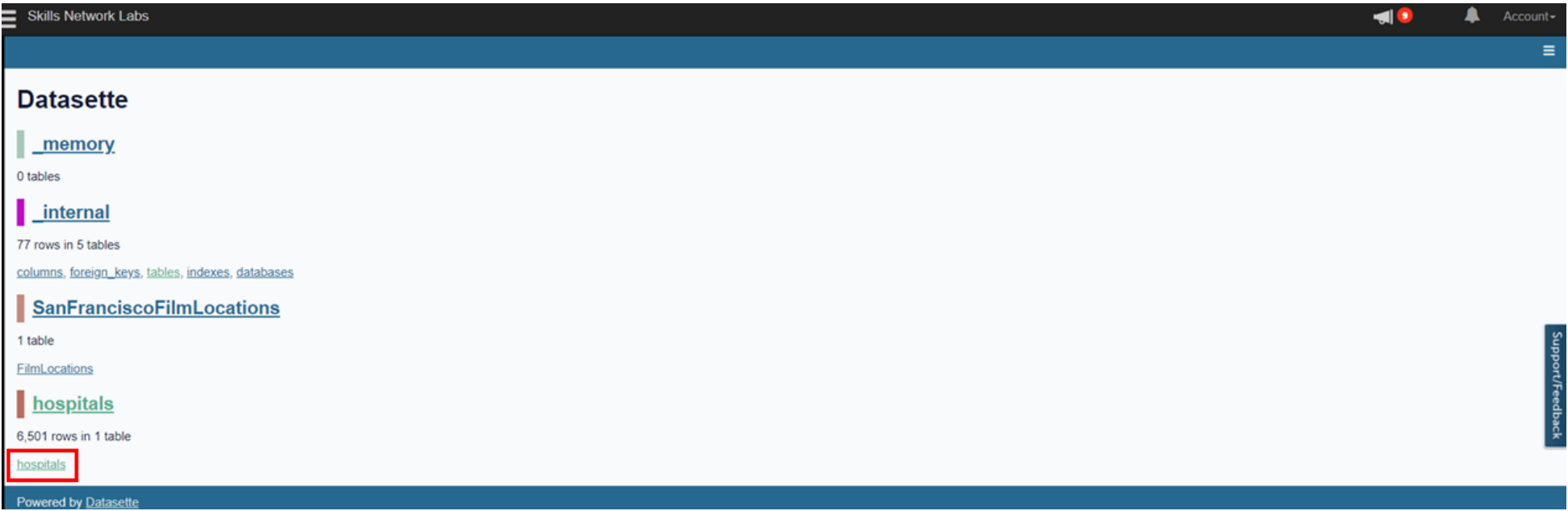
Exercise 2: Export a Table from Datasette.

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.



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



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

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

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

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**.

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
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27,27,Santa Rosa Infirmary,ALAMO HEIGHTS,TX,-98.498627,29.426903
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29,29,State Tuberculosis Hospital,HARLINGEN,TX,-97.706375,26.159523
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32,32,Wilson Hospital,BAYSIDE,TX,-97.386658,27.749197

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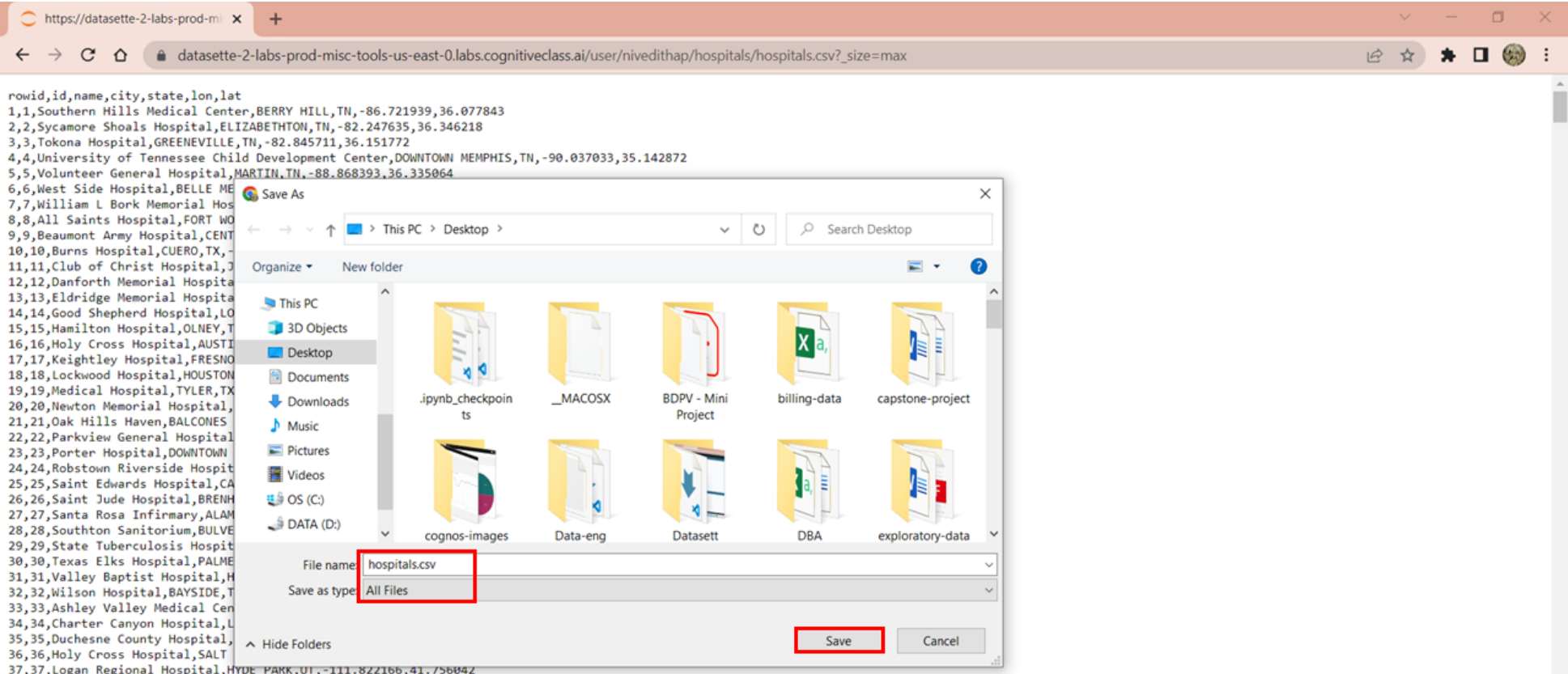
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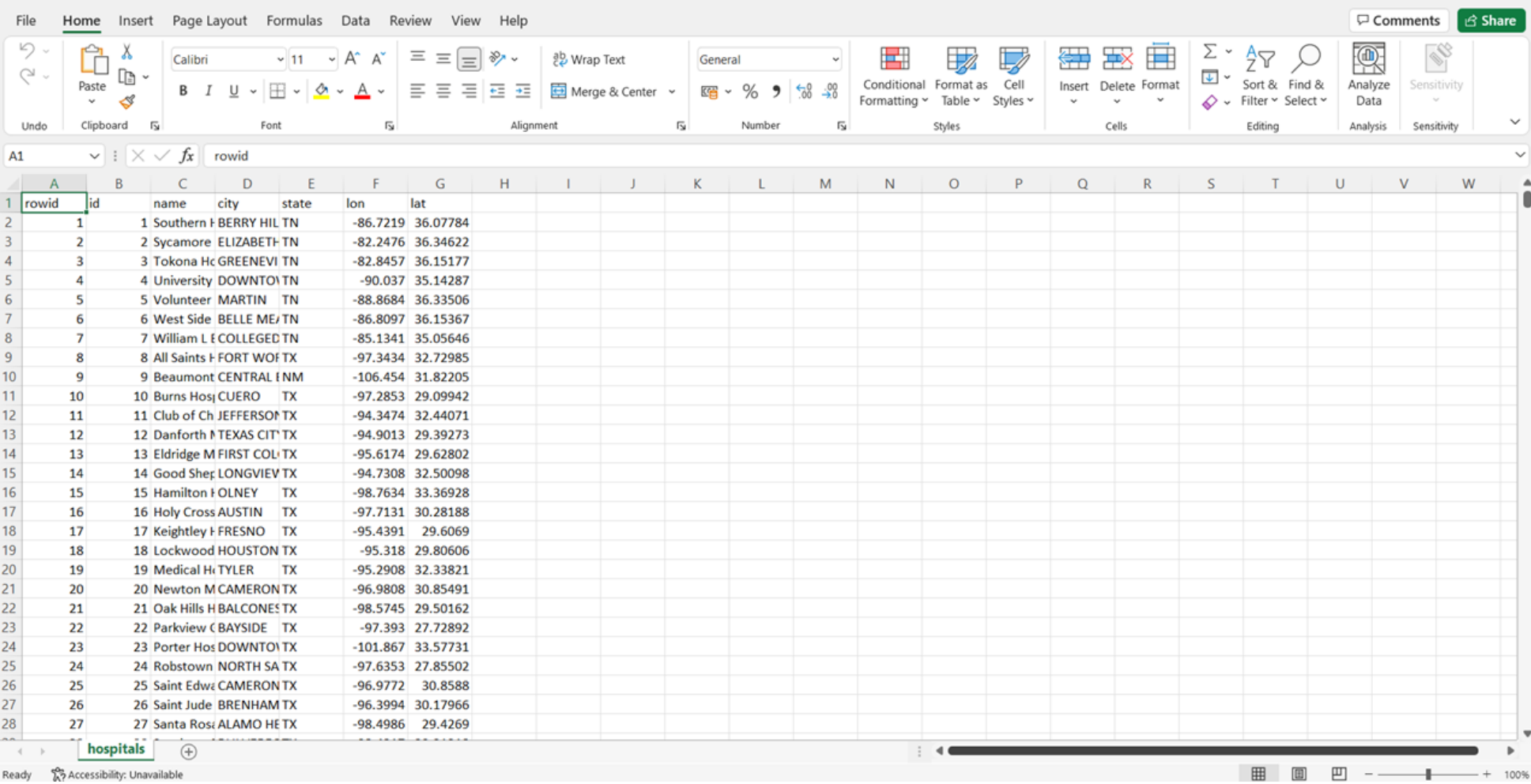
Ctrl+U

Inspect

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:



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

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