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

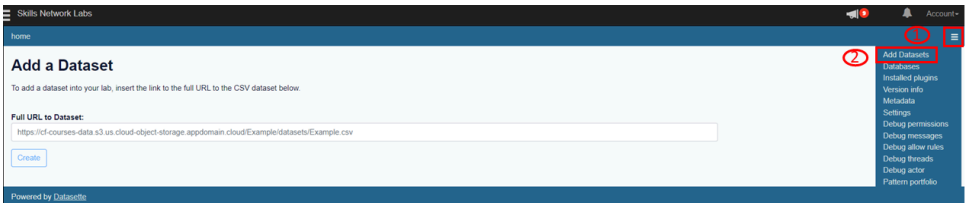
The first dataset used in this lab comes from the following source: https://dataplatform.cloud.ibm.com/exchange/public/entry/view/5562ced564e776edc5f91e13d48d8309?context=cpdaas. This dataset is published by **IBM** and contains point data for a sample list of hospitals in the US.

> 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.

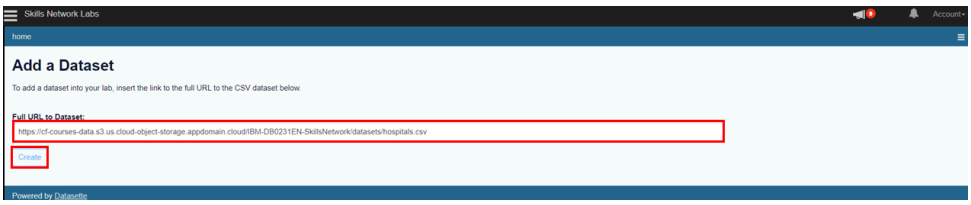
1. Once the Datasette tool is launched using the open tool, click on the **Navigation Tool** and then select **Add DataSets** option at the right-end corner.



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.

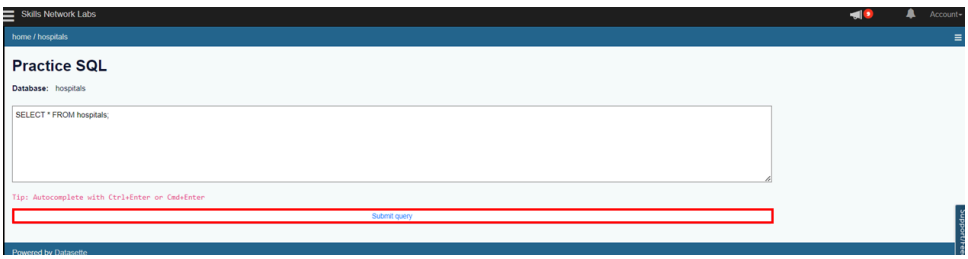
   Enter the copied URL in the text box and click on **Create**.



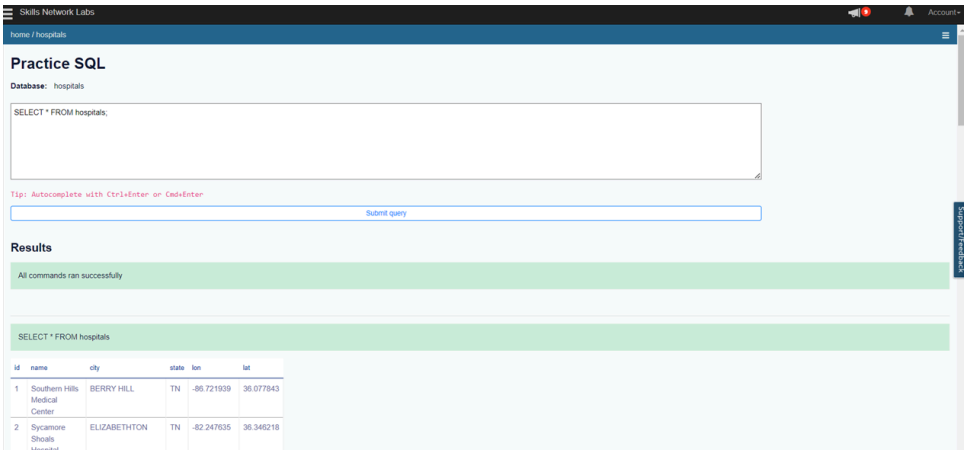
3. Then this will create the HOSPITALS table with the data loaded from the CSV file.

   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.

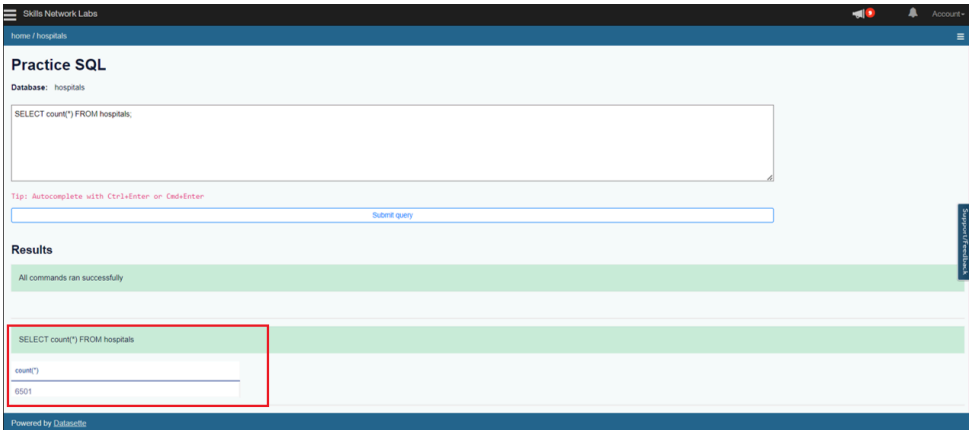


5. You have successfully created and loaded the **HOSPITALS** table.



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

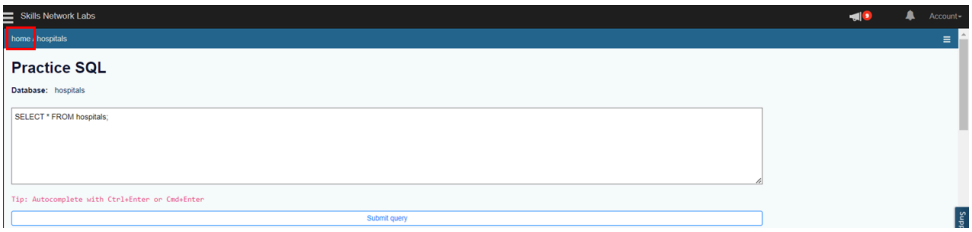
```
SELECT count(*) FROM hospitals;
```



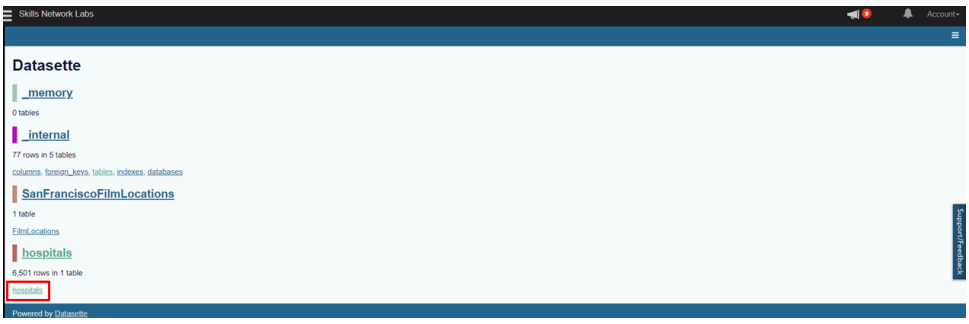
Exercise 2: Export a Table from Datasette.

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.

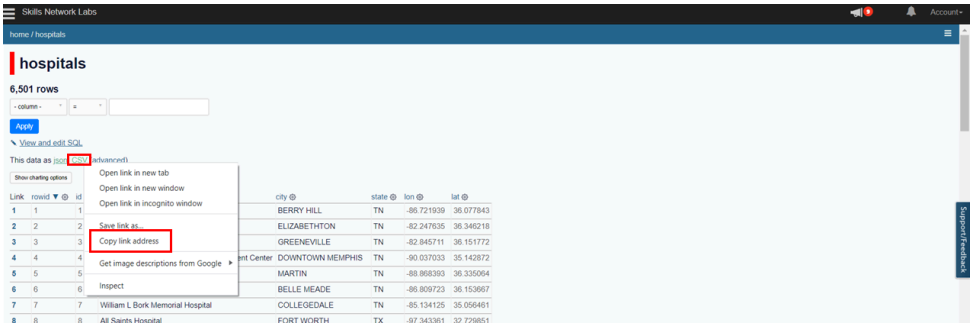
1. First, click the **home** link at the top of the page in the tool.



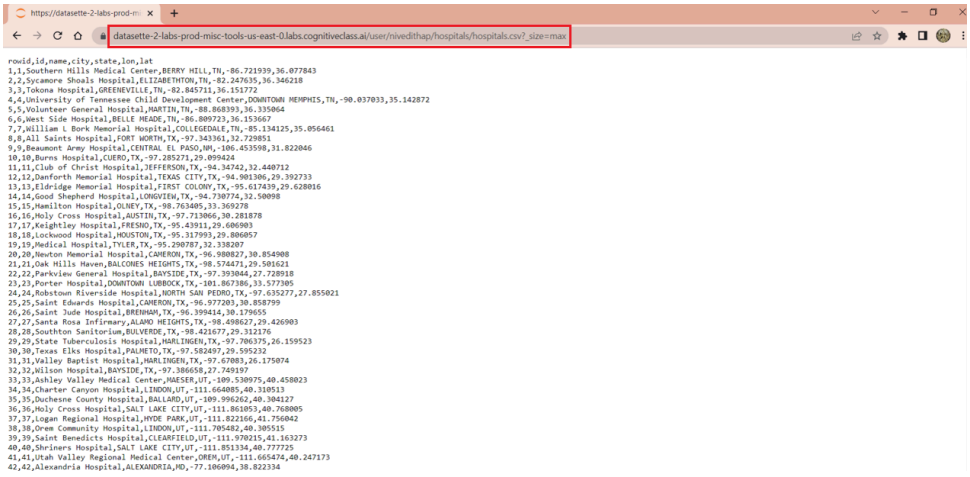
2. Click on the **hospitals** table link as highlighted below:



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

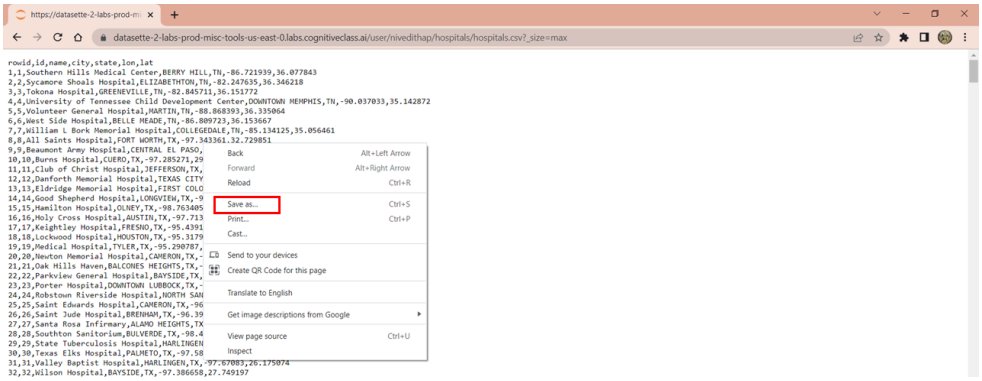


4. Paste the URL in a new **tab** and press **ENTER**. Now this will display all the data present in the table.

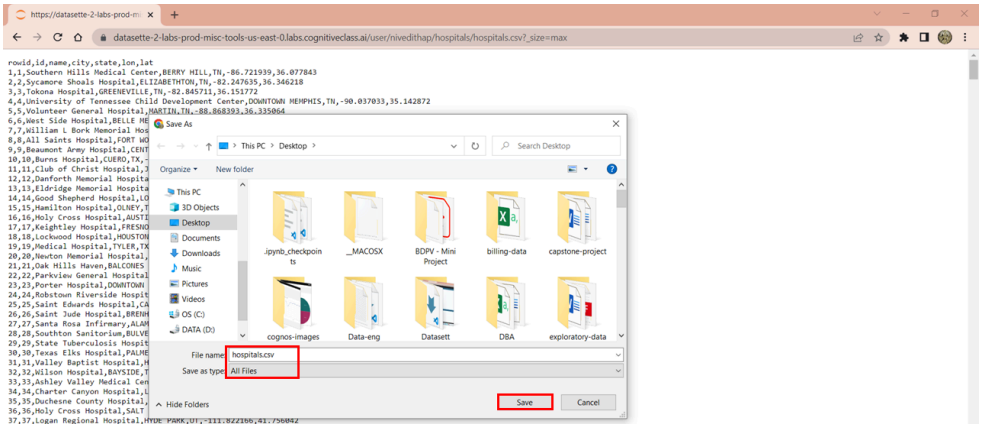



```
rowid,id,name,city,state,lon,lat
1,1,Southern Hills Medical Center,BERRY HILL,TN,-86.721939,36.077843
2,2,Sycamore Shoals Hospital,ELIZABETHTON,TN,-82.247635,36.346218
3,3,Tokona Hospital,GREENEVILLE,TN,-82.845711,36.151772
4,4,University of Tennessee Child Development Center,DOWNTOWN MEMPHIS,TN,-90.037033,35.142872
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,COLLEGEDALE,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,-95.43911,29.606003
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,BRENHAM,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,-97.582407,29.595232
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
```

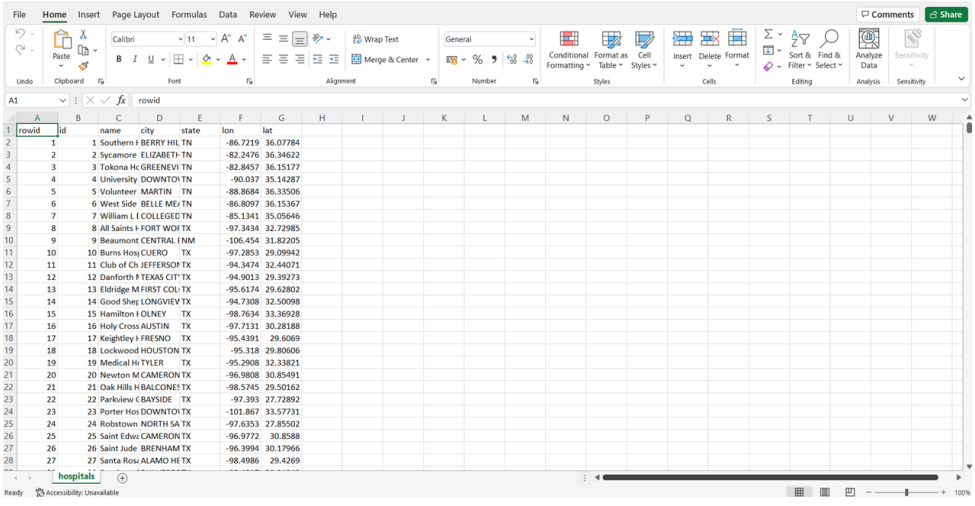
5. To save the file, right-click and select **SAVE-AS**.



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:



Author(s)

- Niveditha Pandith

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