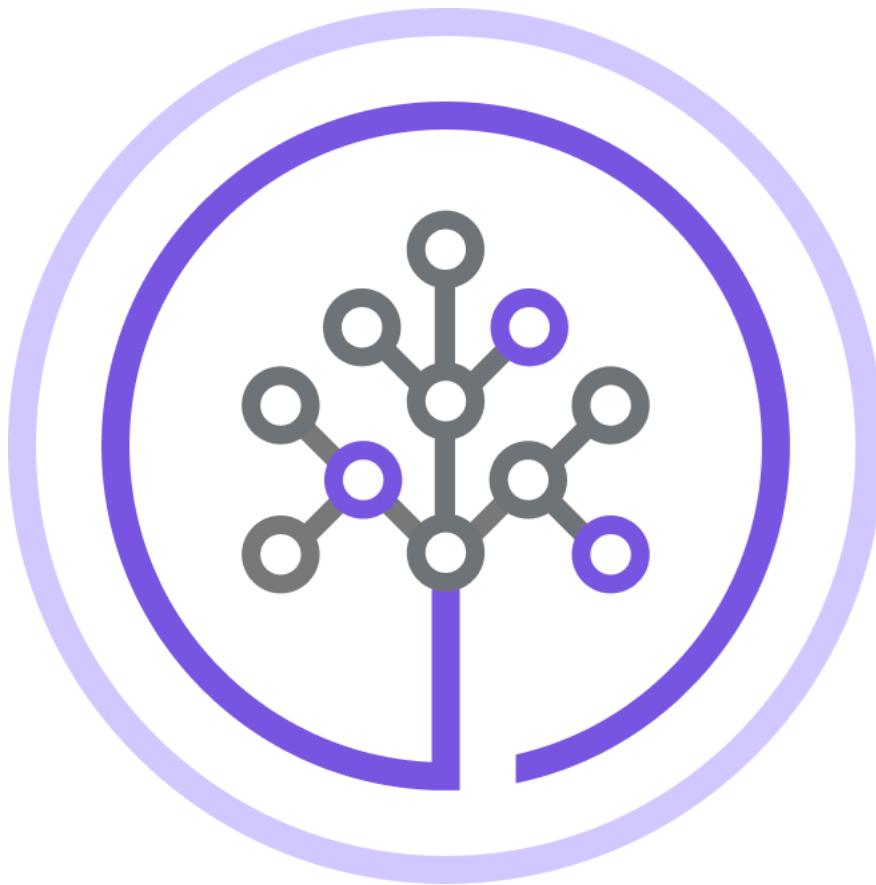


Hands-on Lab: Upload and Export using Datasette



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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.

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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/Example/datasets/Example.csv
```

Create

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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

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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.

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 Hospital	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;
```

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
```

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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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](#)
- [internal](#)
- [SanFranciscoFilmLocations](#)
- [hospitals](#)

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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,-95.43911,29.606903
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,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,-97.582497,29.595232
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 Benedict's Hospital,CLEARFIELD,UT,-111.978215,41.163273
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**.

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 ME
7,7,William L Bork Memorial Hos
8,8,All Saints Hospital,FORT WO
9,9,Beaumont Army Hospital,CENT
10,10,Burns Hospital,CUERO,TX,-
11,11,Club of Christ Hospital,J
12,12,Danforth Memorial Hospita
13,13,Eldridge Memorial Hospita
14,14,Good Shepherd Hospital,LO
15,15,Hamilton Hospital,OLNEY,T
16,16,Holy Cross Hospital,AUSTI
17,17,Keightley Hospital,FRESNO
18,18,Lockwood Hospital,HOUSTON
19,19,Medical Hospital,TYLER,TX
20,20,Newton Memorial Hospital,
21,21,Oak Hills Haven,BALCONES
22,22,Parkview General Hospital
23,23,Porter Hospital,DOWNTOWN
24,24,Robstown Riverside Hospit
25,25,Saint Edwards Hospital,CA
26,26,Saint Jude Hospital,BRENH
27,27,Santa Rosa Infirmary,ALAM
28,28,Southton Sanitorium,BULVE
29,29,State Tuberculosis Hospit
30,30,Texas Elks Hospital,PALME
31,31,Valley Baptist Hospital,H
32,32,Wilson Hospital,BAYSIDE,T
33,33,Ashley Valley Medical Cen
34,34,Charter Canyon Hospital,L
35,35,Duchesne County Hospital,
36,36,Holy Cross Hospital,SALT
37,37,Logan Regional Hospital,HYDE PARK,UT,-111.822166,41.756042
```

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

A1	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
rowid		id	name	city	state	lon	lat											
1		1	Southern H	BERRY HIL	TN	-86.7219	36.077843											
2		2	Sycamore	ELIZABETH	TN	-82.2476	36.346218											
3		3	Tokona H	GREENEVILLE	TN	-82.845711	36.151772											
4		4	University	DOWNTOW	TN	-90.037	35.142872											
5		5	Volunteer	MARTIN	TN	-88.8684	36.33506											
6		6	West Side	BELLE ME	TN	-86.8097	36.15367											
7		7	William L	COLLEGED	TN	-85.1341	35.05646											
8		8	All Saints	FORT WO	TX	-97.3434	32.72985											
9		9	Beaumont	CENTRAL I	NM	-106.454	31.82205											
10		10	Burns Hos	CUERO	TX	-97.2853	29.09942											
11		11	Club of Ch	JEFFERSON	TX	-94.3474	32.44071											
12		12	Danforth	N TEXAS CIT	TX	-94.9013	29.39273											
13		13	Eldridge M	FIRST COL	TX	-95.6174	29.62802											
14		14	Good Shep	LONGVIEW	TX	-94.7308	32.50098											
15		15	Hamilton H	OLNEY	TX	-98.7634	33.36928											
16		16	Holy Cross	AUSTIN	TX	-97.7131	30.28188											
17		17	Keightley F	FRESNO	TX	-95.4391	29.6069											
18		18	Lockwood	HOUSTON	TX	-95.318	29.80606											
19		19	Medical H	TYLER	TX	-95.2908	32.33821											
20		20	Newton M	CAMERON	TX	-96.9808	30.85491											
21		21	Oak Hills H	BALCONES	TX	-98.5745	29.50162											
22		22	Parkview C	BAYSIDE	TX	-97.393	27.72892											
23		23	Porter Hos	DOWNTOW	TX	-101.867	33.57731											
24		24	Robstown	NORTH SA	TX	-97.6353	27.85502											
25		25	Saint Edw	CAMERON	TX	-96.9772	30.8588											
26		26	Saint Jude	BRENHAM	TX	-96.3994	30.17966											
27		27	Santa Ros	ALAMO HE	TX	-98.4986	29.4269											

Author(s)

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