Hands-on Lab: Create Tables and Load Data in Datasette

Skills Network

Estimated time needed: 20 minutes

In this lab, you will learn how to create tables and load data in Datasette.

Objectives

After completing this lab, you will be able to:

- Create and load data into a table from a CSV file
- Create and load data into a table from a SQL script file

Prerequisites

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

Datasets

PETSHOP and BookShop are the two data sets you will use in this lab.

- PETSHOP:

ID	ANIMAL	SALEPRICE
1	Cat	450.09
2	Dog	666.66
3	Parrot	50.00
4	Hamster	60.60
5	Goldfish	48.48

- BookShop:

| BOOK_ID	TITLE	AUTHOR_NAME	AUTHOR_BIO
B101	Introduction to Algorithms	Thomas H. Cormen	Thomas H. Cormen is the co...
B201	Structure and Interpretation of Computer Pro...	Harold Abelson	Harold Abelson, Ph.D., is Cla...
B301	Deep Learning	Ian Goodfellow	Ian J. Goodfellow is a resear...
B401	Algorithms Unlocked	Thomas H. Cormen	Thomas H. Cormen is the co...
B501	Machine Learning: A Probabilistic Perspective	Kevin P. Murphy	

Exercise 1: Load a CSV file and create a table using the Datasette tool

In this exercise, you will learn how to load a CSV file and create a table using the Datasette tool.

1. First, select **Open tool**, then click the **Navigation Pane** at the right-end corner, and then select **Add DataSets**.
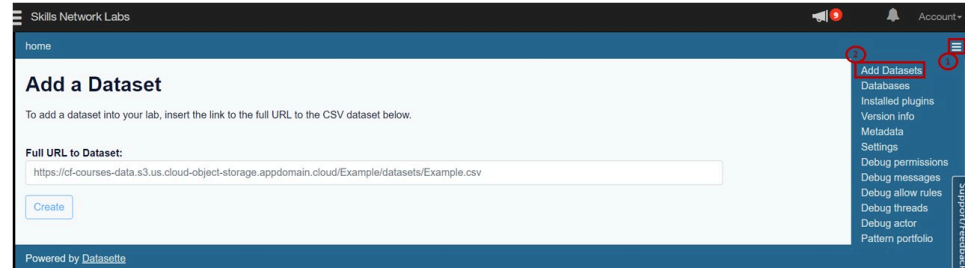
2. You will then be redirected to a page where you need to enter the full URL of the CSV data set in the text box.
   - Right-click the link PETSHOP.csv and copy the link address. Enter the copied URL in the text box and select the **create** button.
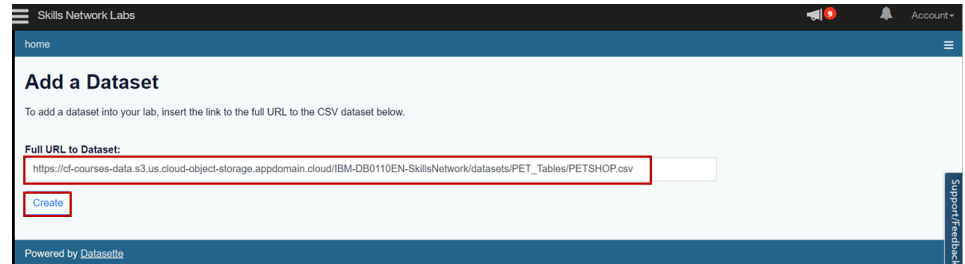
3. The data loaded from the CSV file will create the PETSHOP table. By default, a **SELECT** query related to the table will appear on the **text area** section of the following webpage. Click **Submit Query** to view the results.

4. Next, modify the **SELECT** query as follows:

```
select count(*) from PETSHOP
```

Once you have completed this step, you should see all five rows of the PETSHOP table.

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

Exercise 2: Create and load data in the table using an SQL script file

In this exercise, you will learn how to create and load data into a table by running a script containing the CREATE and INSERT SQL commands.

1. Download the script file to your computer:

   - BookShop-CREATE-INSERT.sql

   - Copy the contents of the script file and paste it in the datasette text area
   - Select Submit query

3. Next, click the **home** link at the top of the page.

4. This step will redirect you to a page displaying **Databases and Tables**.

   ○ Select the **BookShop** table under the **PetShop** database.

5. You will be able to view the **columns** and **data** of the **Bookshop** table.

Congratulations! You have completed this lab and are ready for the next topic.