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

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
1	Cat
2	Dog
3	Parrot
4	Hamster
5	Goldfish

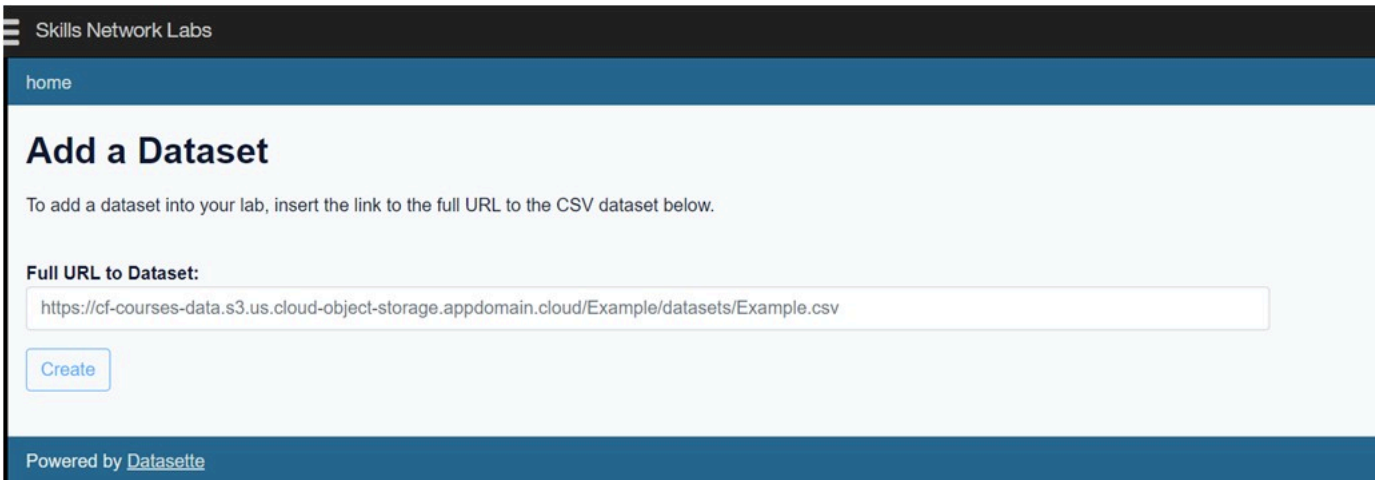
- BookShop:

BOOK_ID	TITLE	AUTHOR_
B101	Introduction to Algorithms	Thomas H
B201	Structure and Interpretation of Computer Pro...	Harold Ab
B301	Deep Learning	Ian Goodf
B401	Algorithms Unlocked	Thomas H
B501	Machine Learning: A Probabilistic Perspective	Kevin P. M

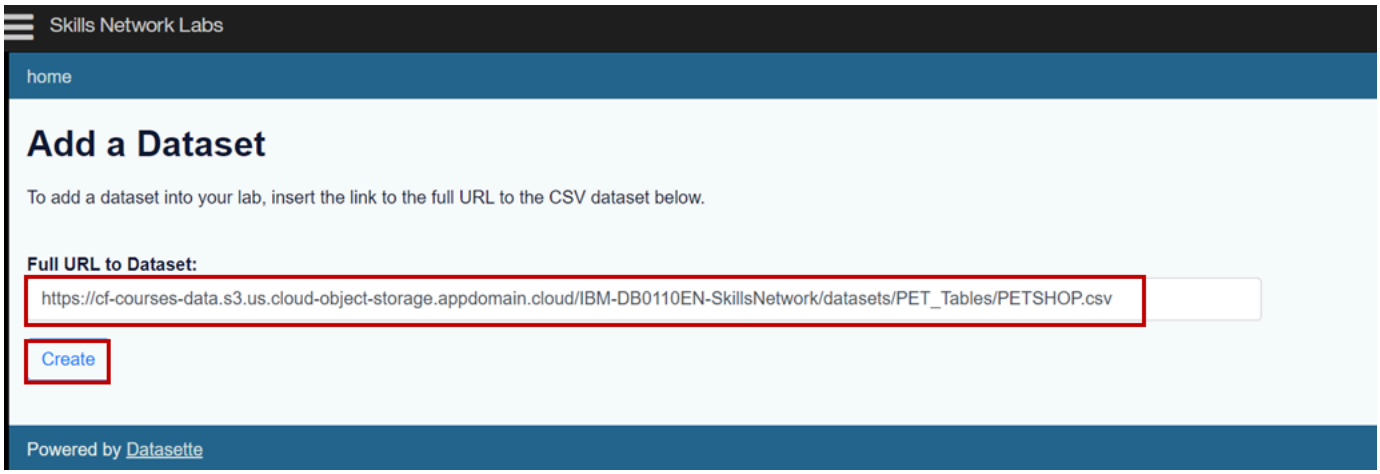
Exercise 1: Load a CSV file and create a table using the Datasette tool

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

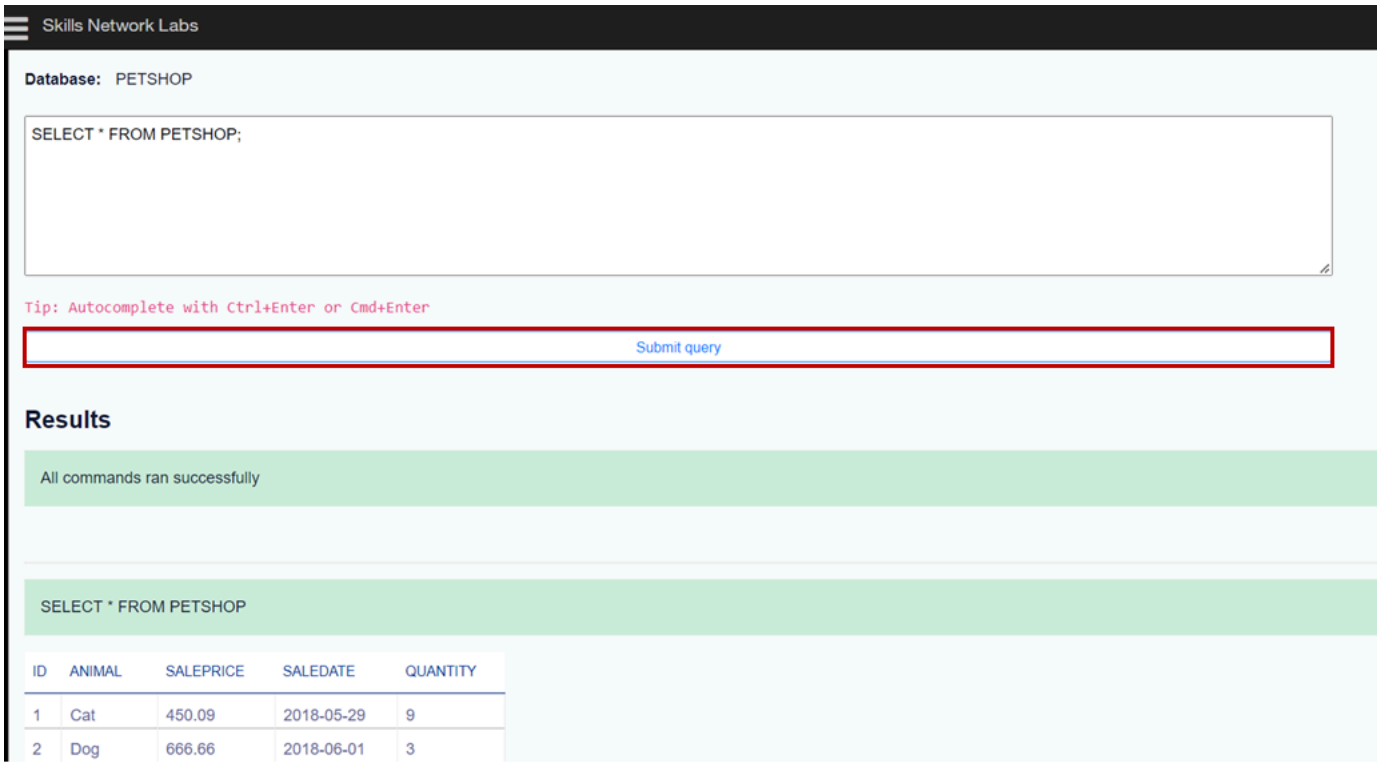
1. First, select **Open tool**, then click the **Navigation Pane** at the right-end corner, and then select **Add DataSets**.



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.



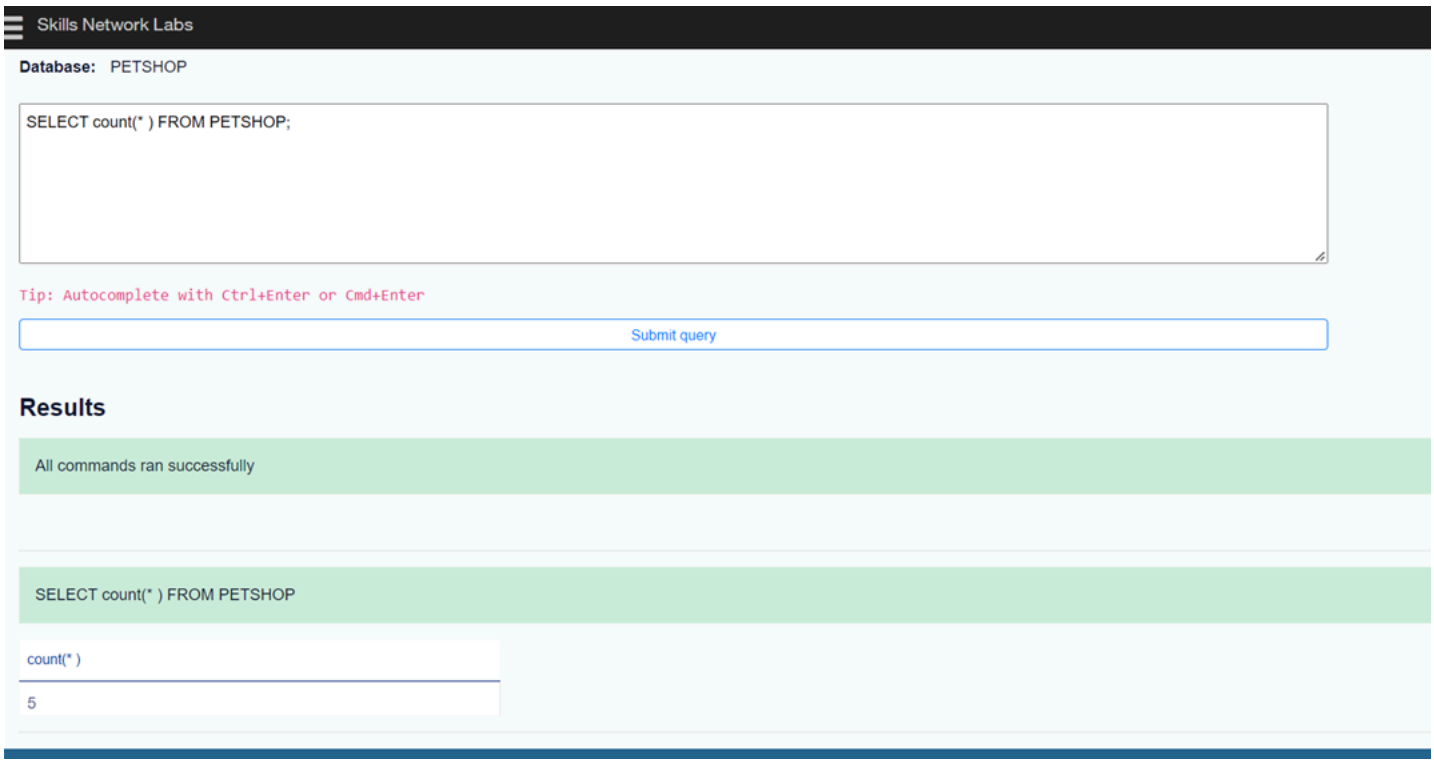
3. The data loaded from the CSV file will create the PETSHOP table. By default, a **SELECT** query related to the table will appear on the **text area** section of the following webpage. Click **Submit Query** to view the results.



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.

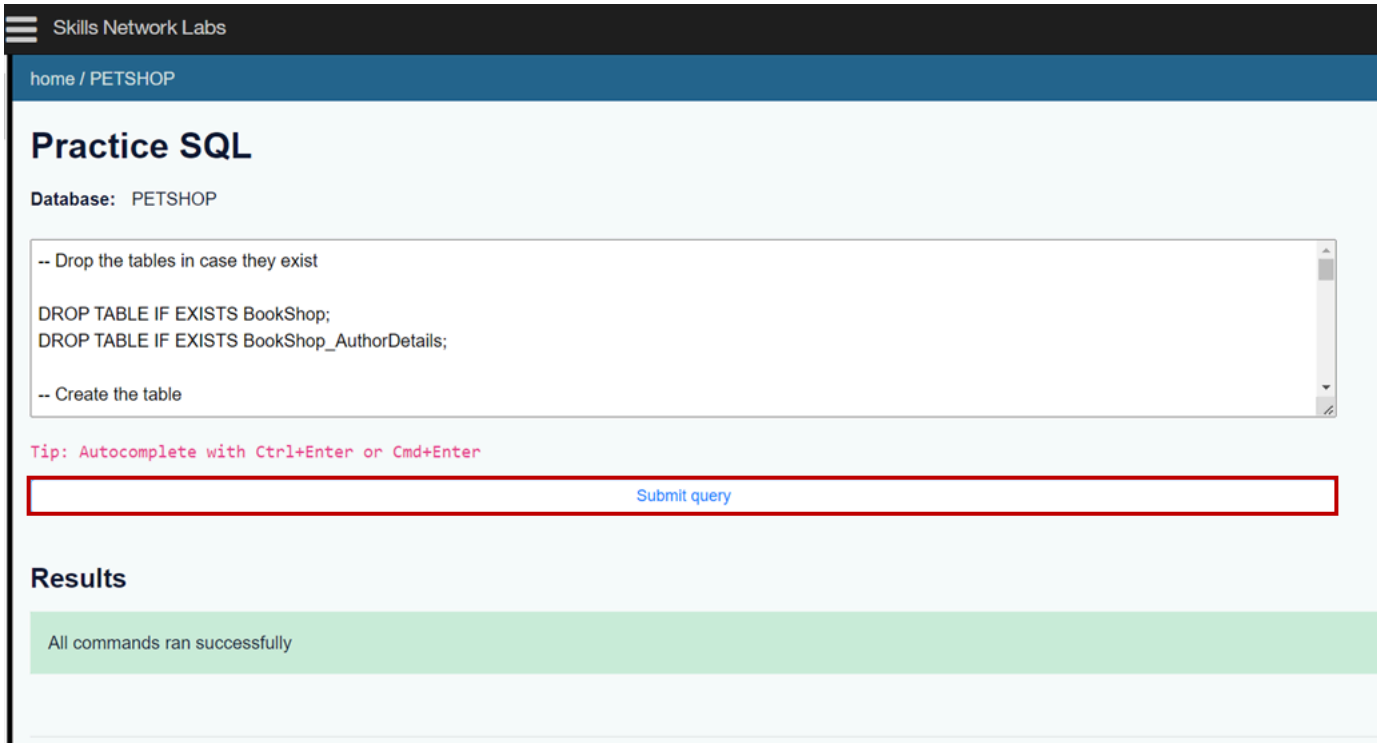
Exercise 2: Create and load data in the table using an SQL script file

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.

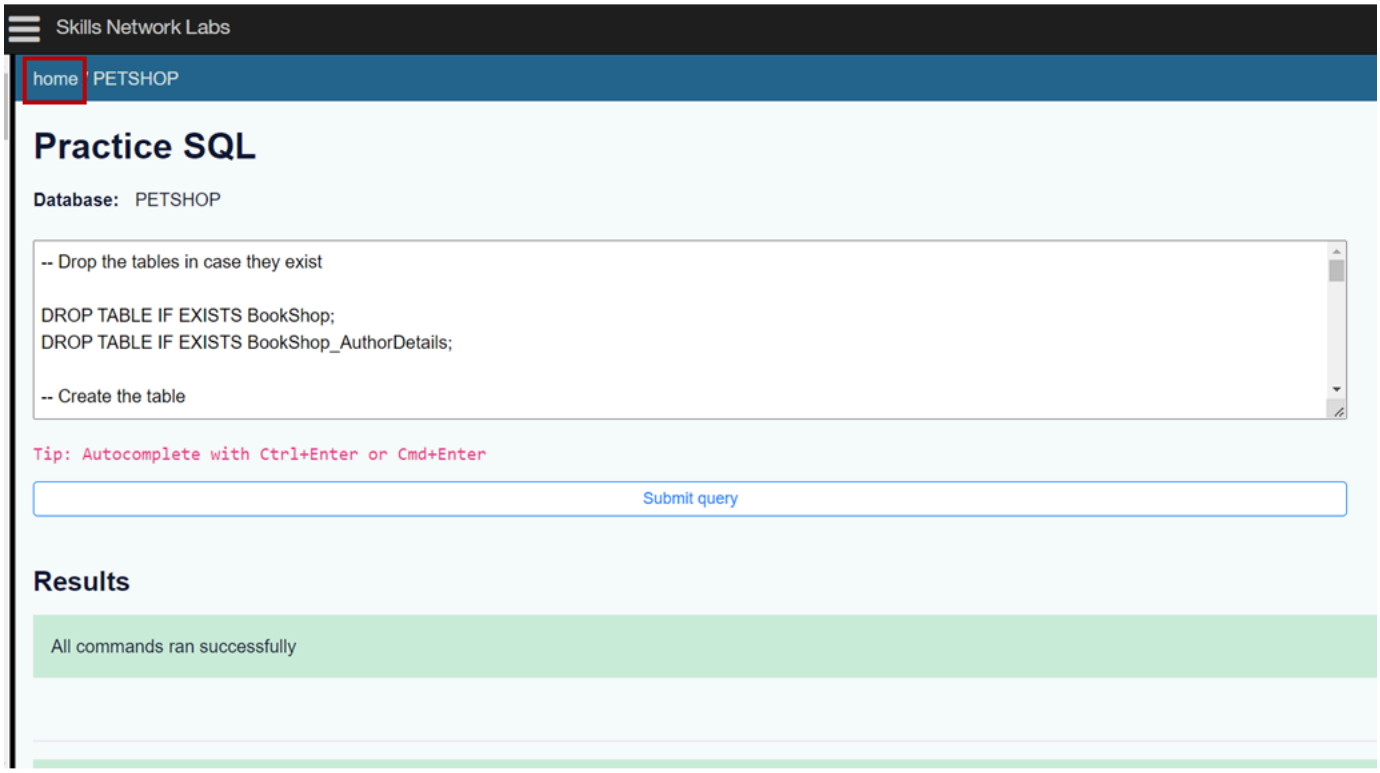
1. Download the script file to your computer:

- BookShop-CREATE-INSERT.sql

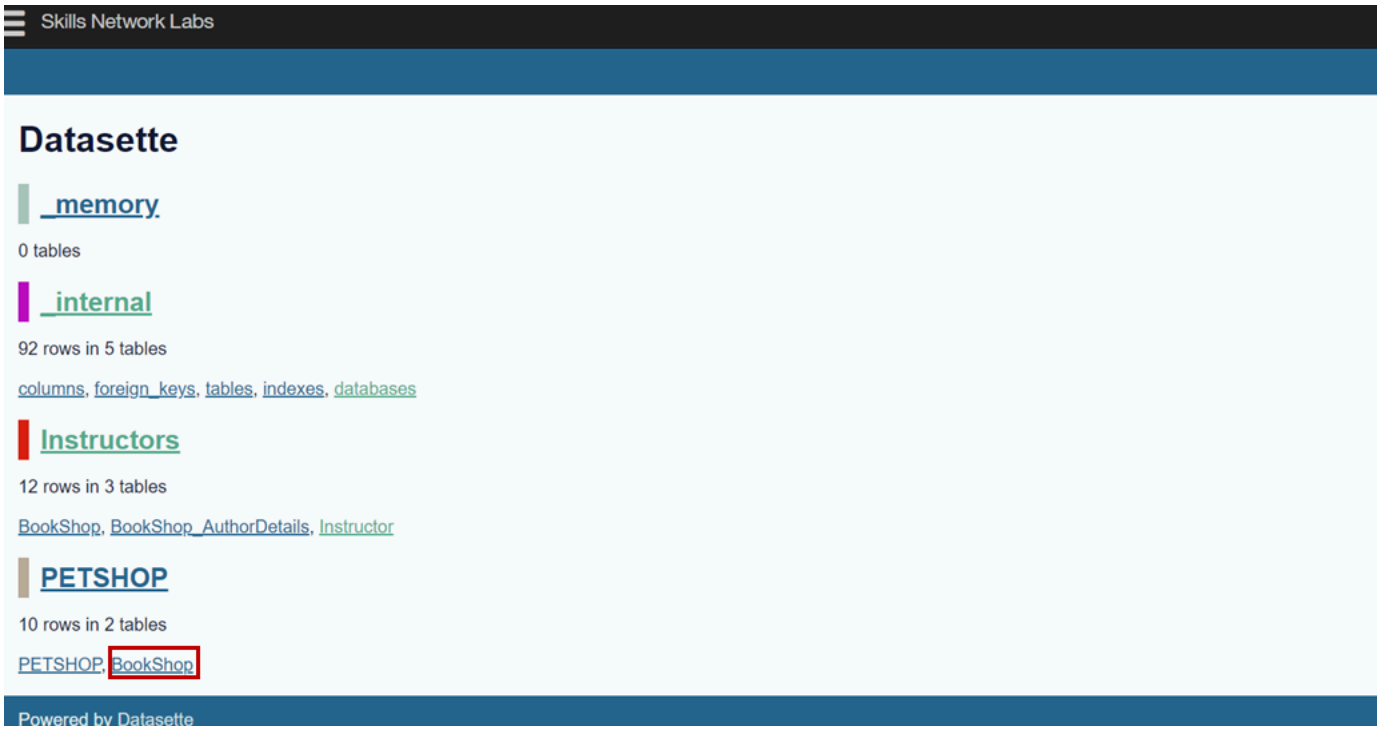
- Copy the contents of the script file and paste it in the datasette text area
- Select Submit query



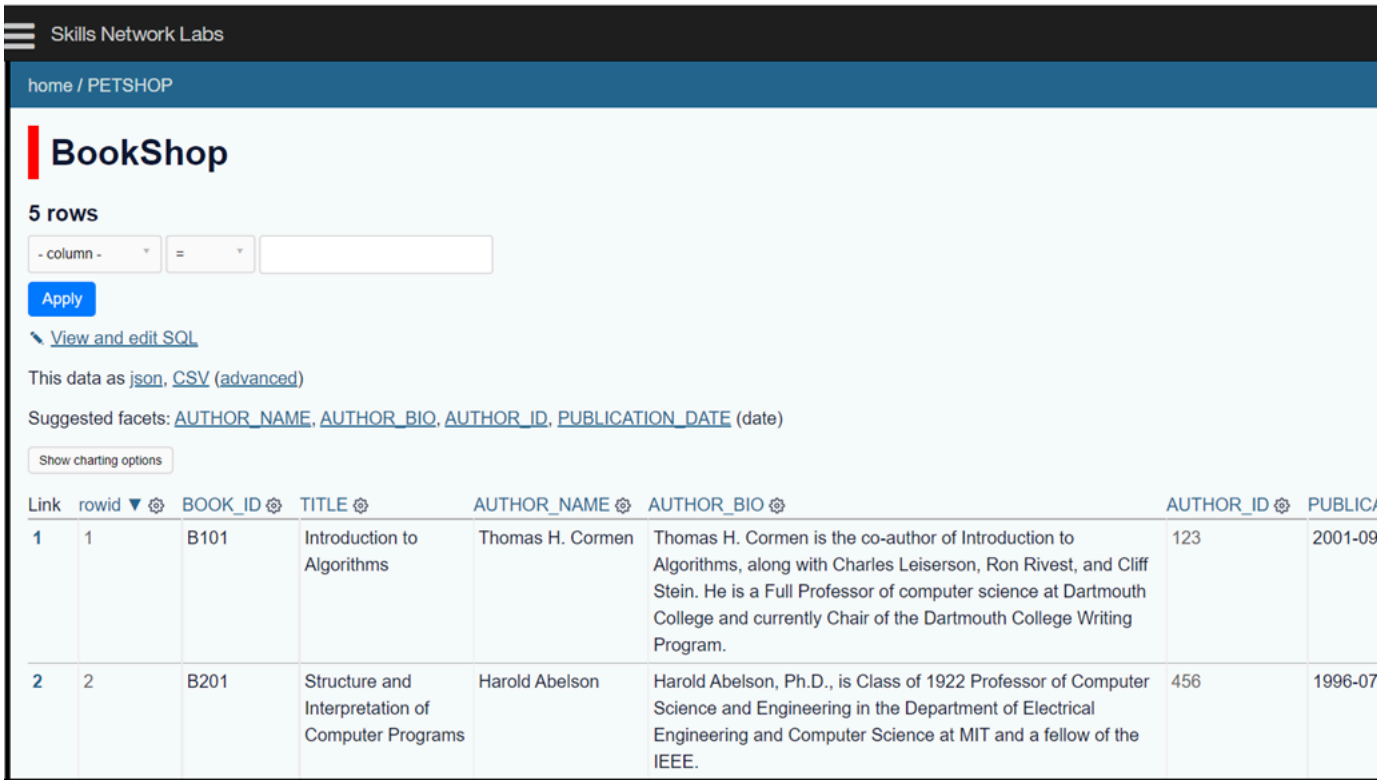
3. Next, click the **home** link at the top of the page.



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.