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.

Software Used in this Lab

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

Dataset Used in this Lab

Two datasets are used in this lab - PETSHOP and BookShop.

- PETSHOP:

ID	ANIMAL
1	Cat
2	Dog
3	Parrot
4	Hamster
5	Goldfish

- BookShop:

BOOK_ID	TITLE	AUTHOR_NA
B101	Introduction to Algorithms	Thomas H. C
B201	Structure and Interpretation of Computer Pro...	Harold Abels
B301	Deep Learning	Ian Goodfell
B401	Algorithms Unlocked	Thomas H. C
B501	Machine Learning: A Probabilistic Perspective	Kevin P. Mur

Objectives

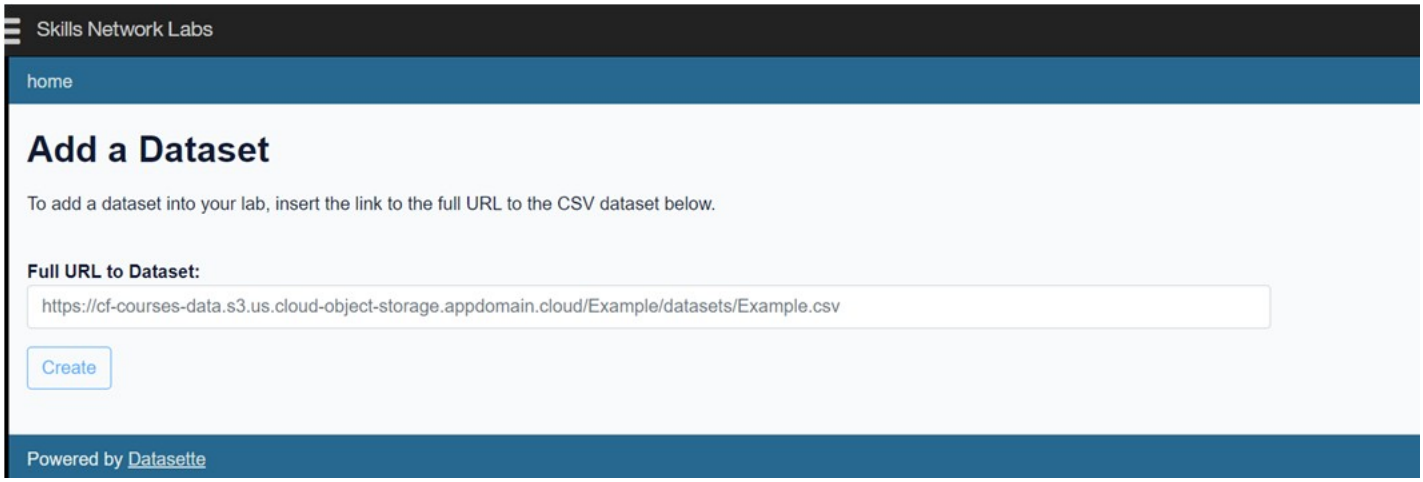
After completing this lab, you can:

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

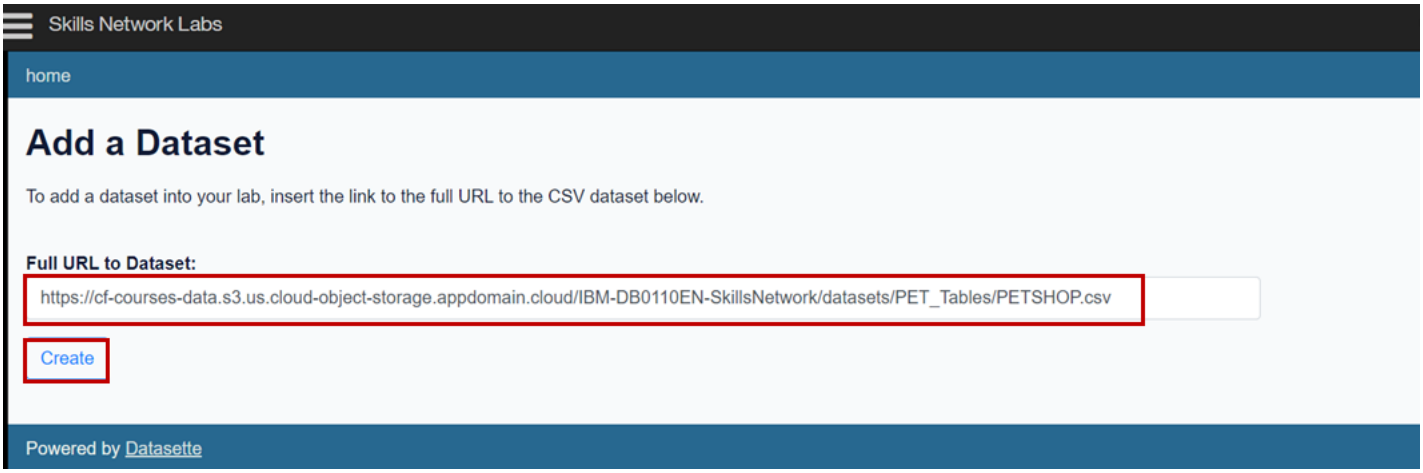
Exercise 1: Create a table by loading a CSV file using Datasette

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

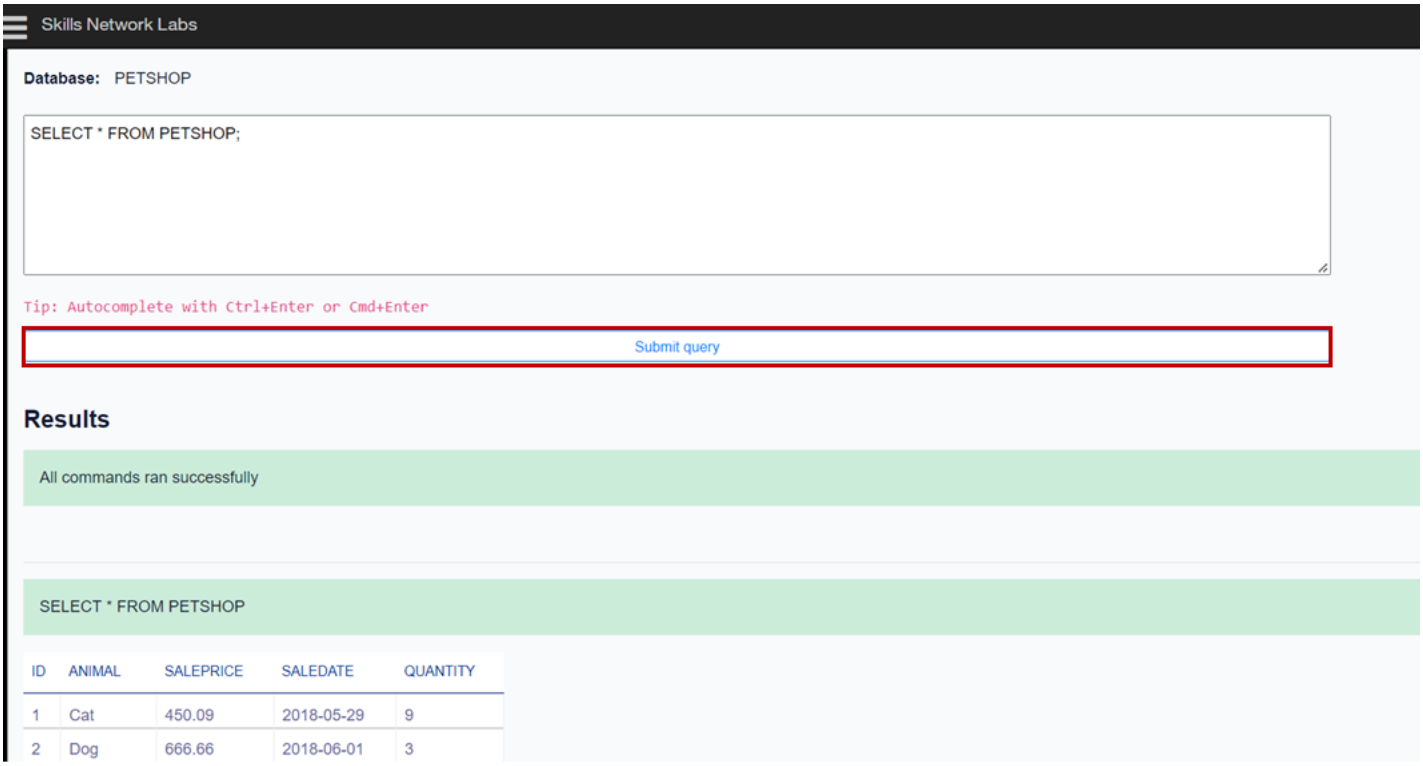
1. Once the Datasette tool is launched using the **Open tool**, click on the **Navigation Pane** at the right-end corner and then click on **Add DataSets** option.



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 linkPETSHOP.csv and copy the link address. Enter the copied URL in the text box and click on the **create** button.



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

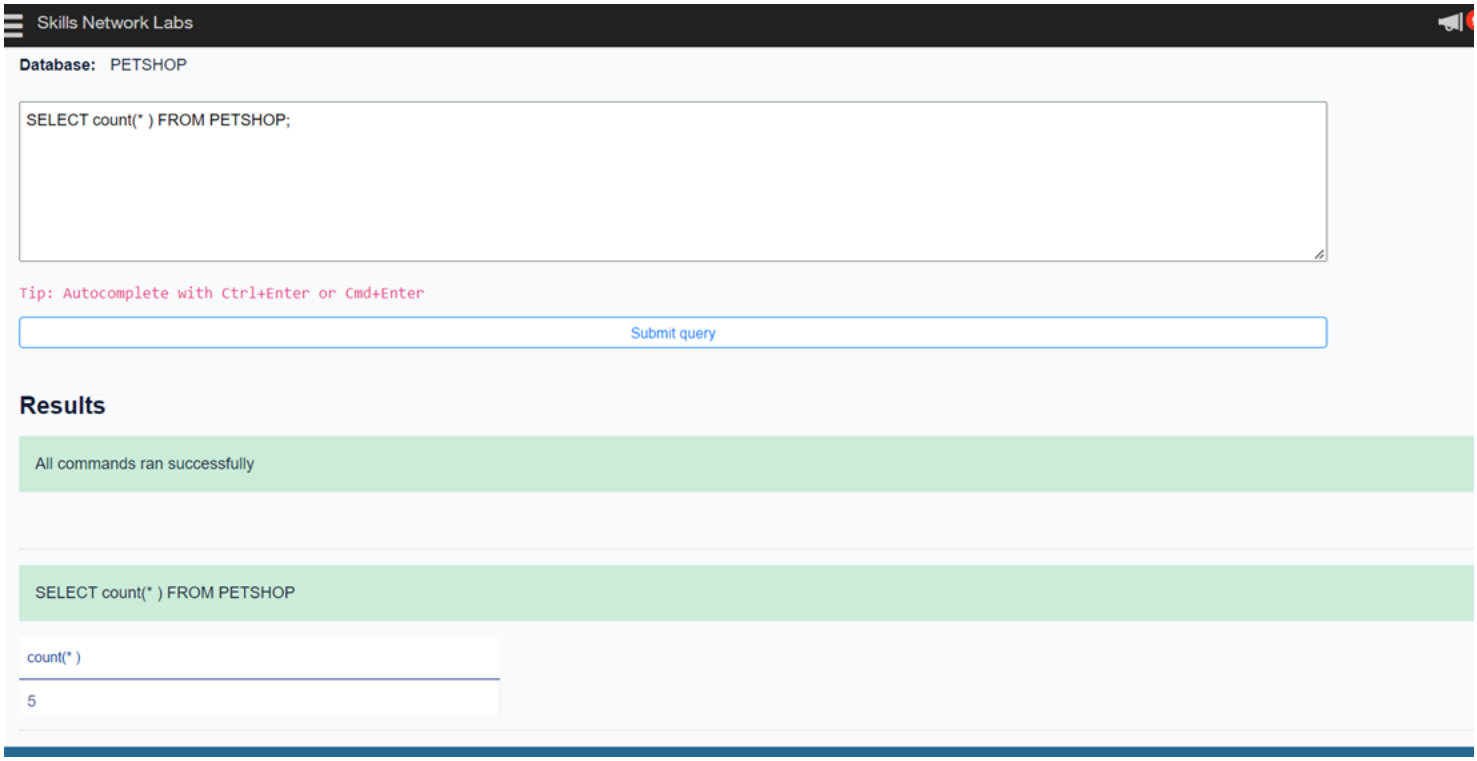


4. Next, modify the **SELECT** query as follows:

```
1. 1
1. select count(*) from PETSHOP
```

Copied!

This will display 5 rows on executing the query.After loading has been completed, you will notice that you were successful in loading all 5 rows of the PETSHOP table.



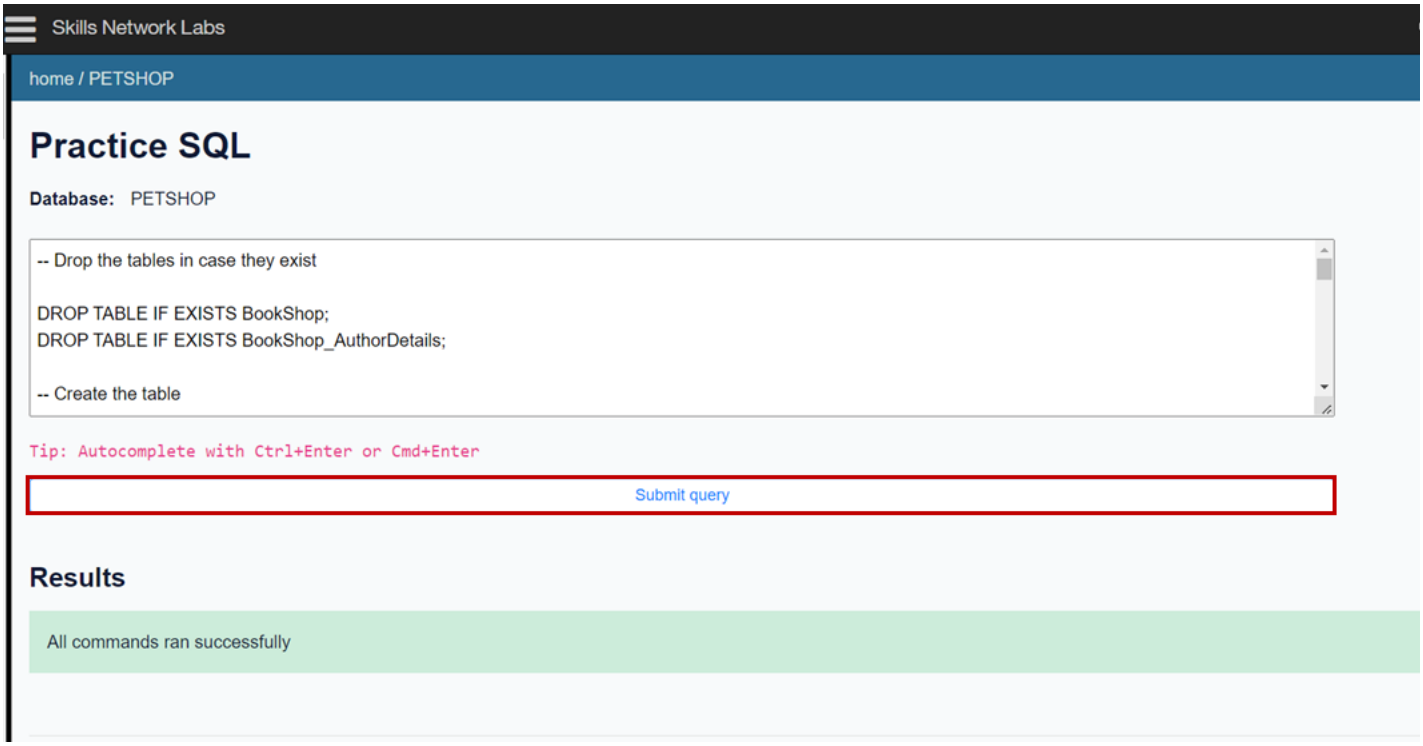
5. You have successfully created and loaded the **PETSHOP** table.

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

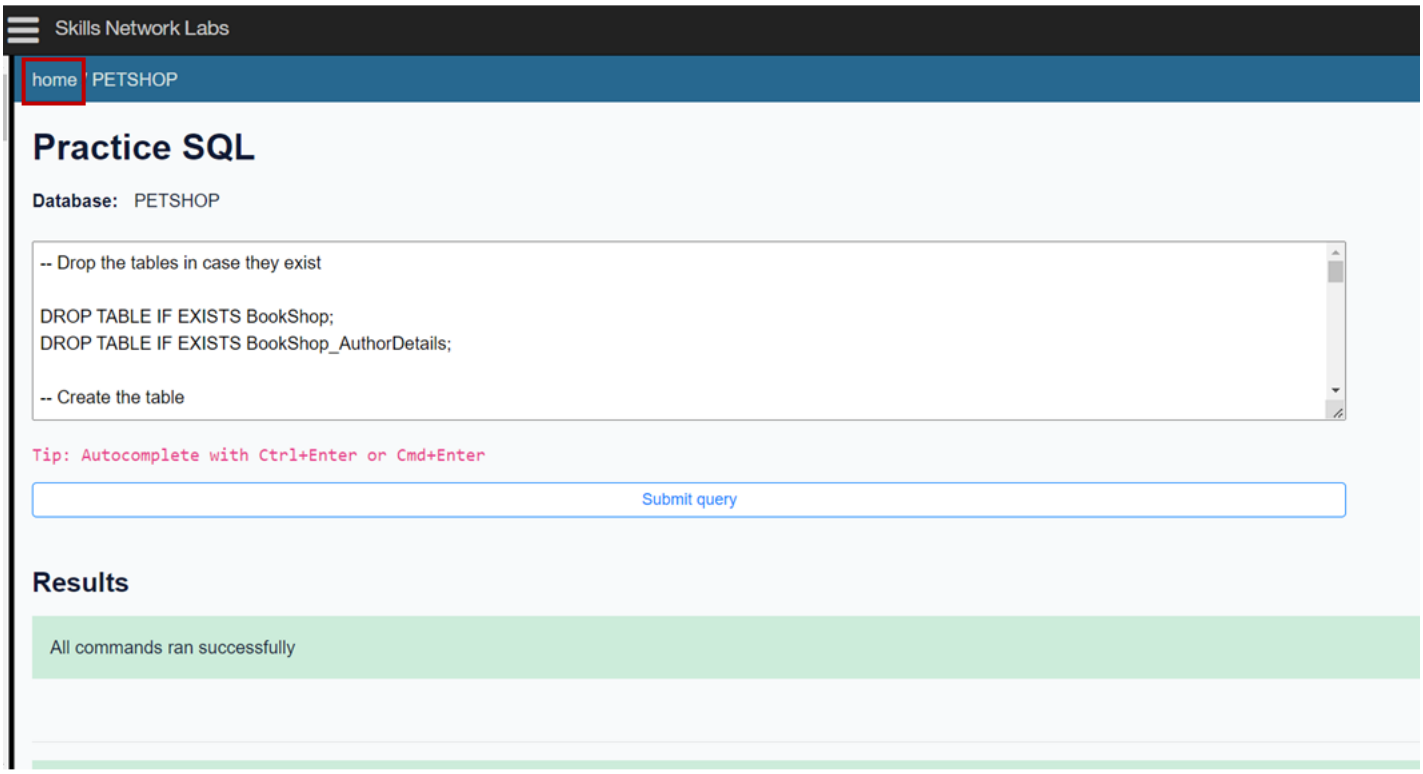
In this exercise, you will learn how to create a table and load data into it by executing a script containing the CREATE and INSERT SQL commands.

1. Download the script file to your computer:
    - BookShop-CREATE-INSERT.sql

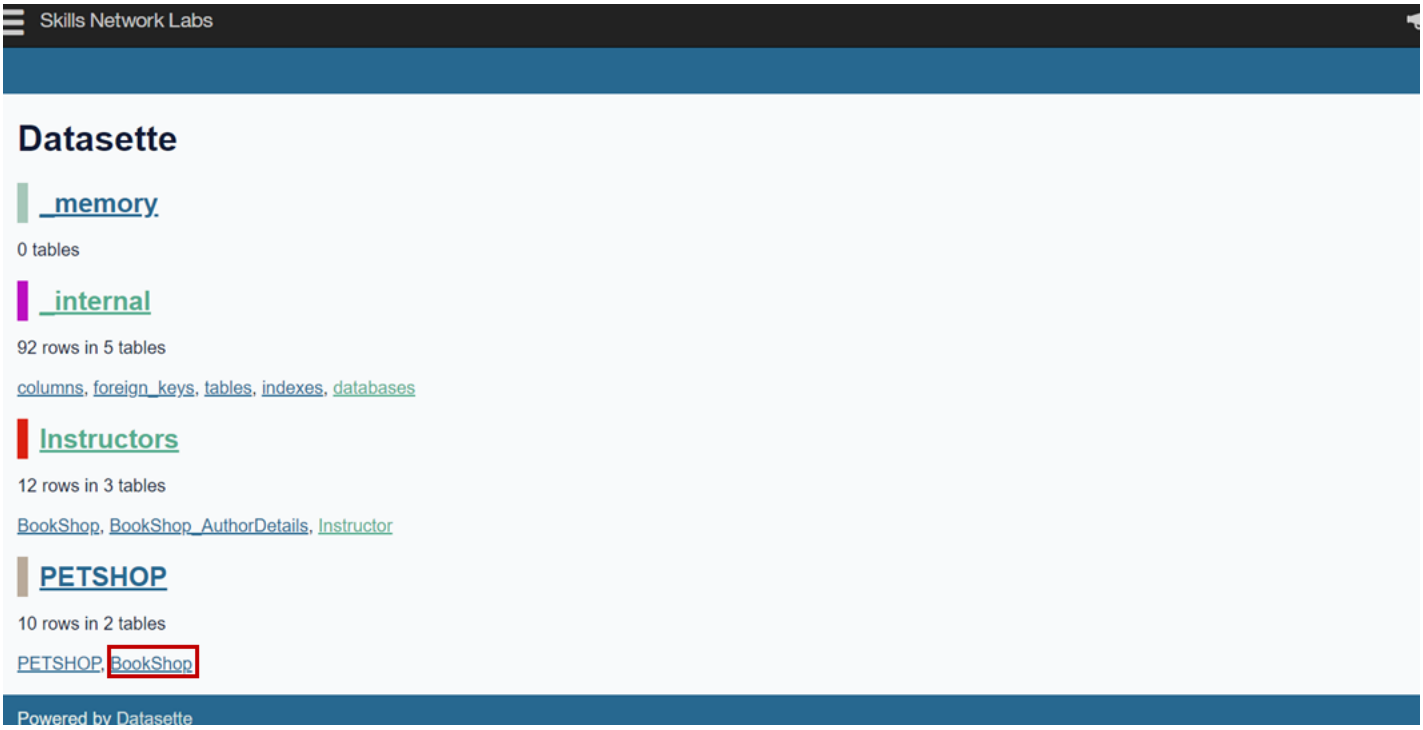
2. Open the script file using **Notepad** or any **text editor**.
    - **Copy** the contents of the **script** file and paste it in the datasette **text area**.
    - Click on **Submit query** button.
    - The queries get executed.



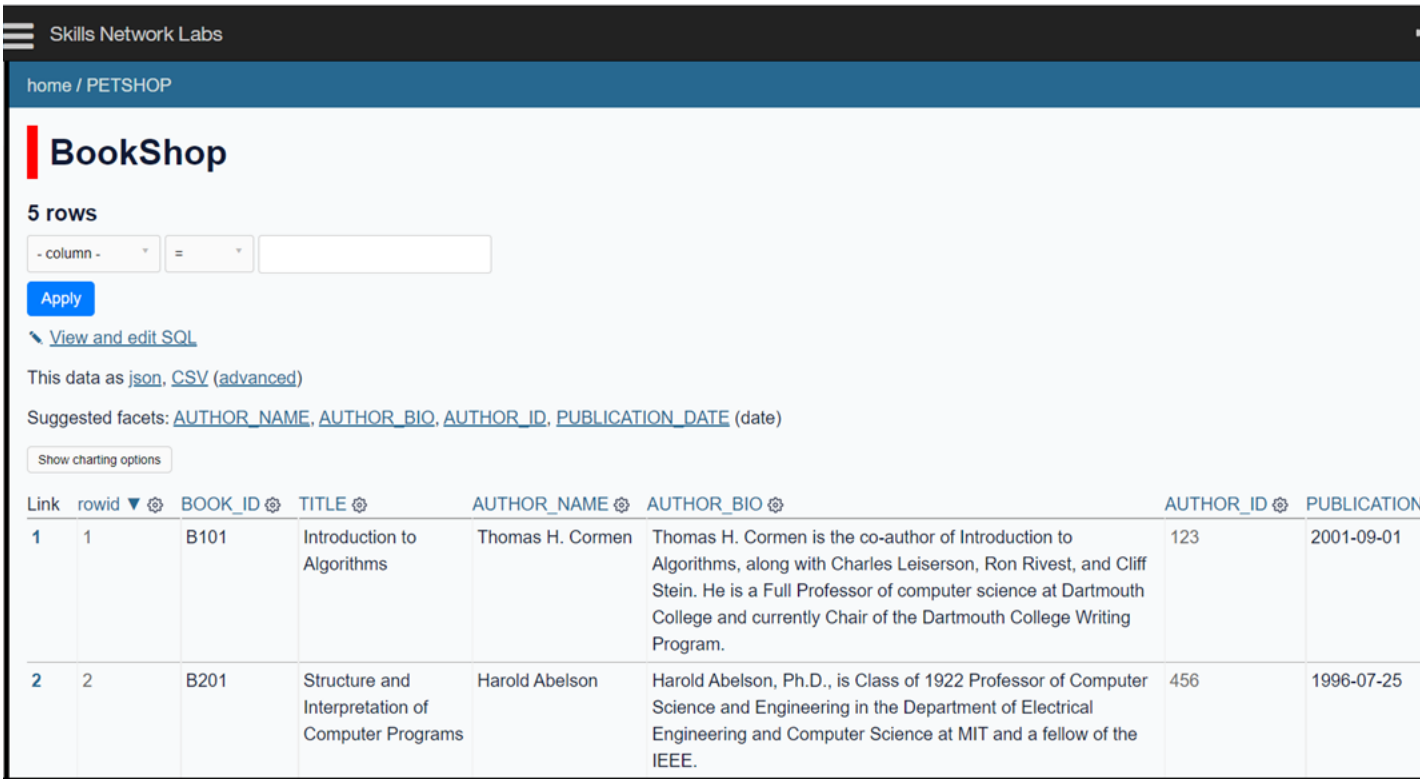
3. Next, click on **home** link at the top of the page in the tool.



4. This will redirect to a page where **Databases and Tables** are displayed.
    - Click on 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 you are ready for the next topic.

Author(s)

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Changelog

Date	Version	Changed by	Change Description
14-06-2022	1.2	Lakshmi Holla	Converted intial version to DataSette
29-07-2021	1.1	Lakshmi Holla	Modified as per new DB2 UI
16-03-2020	1.0	Sandip Saha Joy	Created initial version