

# Skills Network

## 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	SALEPRICE	SALEDATE	QUANTITY
1	Cat	450.09	2018-05-29	9
2	Dog	666.66	2018-06-01	3
3	Parrot	50.00	2018-06-04	2
4	Hamster	60.60	2018-06-11	6
5	Goldfish	48.48	2018-06-14	24

- BookShop:

BOOK_ID	TITLE	AUTHOR_NAME	AUTHOR_BIO	AUTHOR_ID	PUBLICATION_DATE	PRICE_USD
B101	Introduction to Algorithms	Thomas H. Cormen	Thomas H. Cormen is the co-author of Introd...	123	2001-09-01	125.00
B201	Structure and Interpretation of Computer Pro...	Harold Abelson	Harold Abelson, Ph.D., is Class of 1922 Profe...	456	1996-07-25	65.50
B301	Deep Learning	Ian Goodfellow	Ian J. Goodfellow is a researcher working in ...	369	2016-11-01	82.70
B401	Algorithms Unlocked	Thomas H. Cormen	Thomas H. Cormen is the co-author of Introd...	123	2013-05-15	36.50
B501	Machine Learning: A Probabilistic Perspective	Kevin P. Murphy		157	2012-08-24	46.00

## Objectives

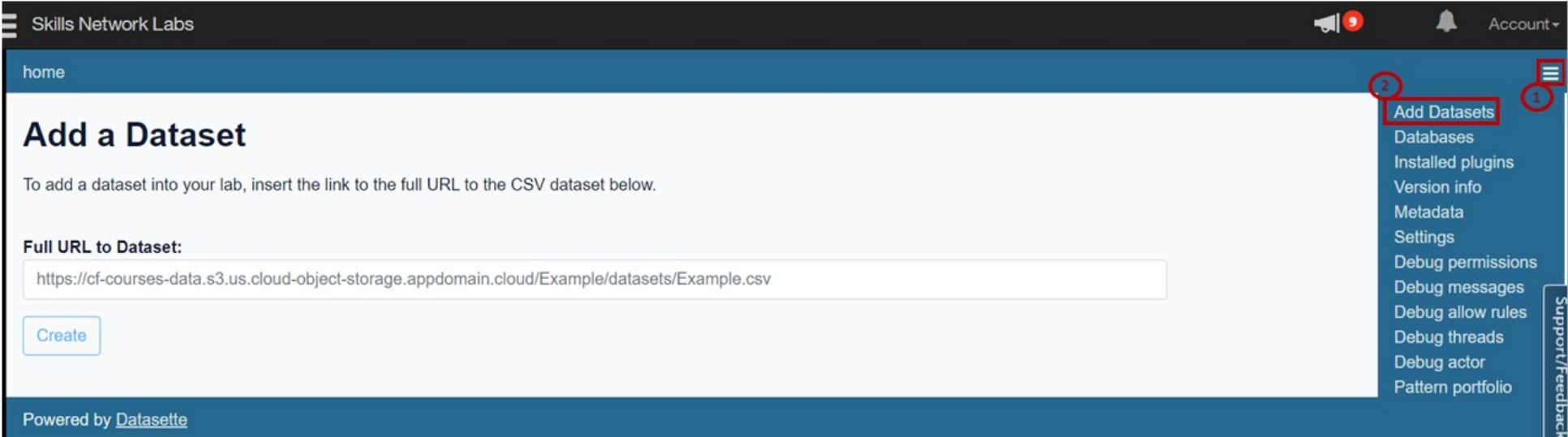
After completing this lab, you can:

- 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.

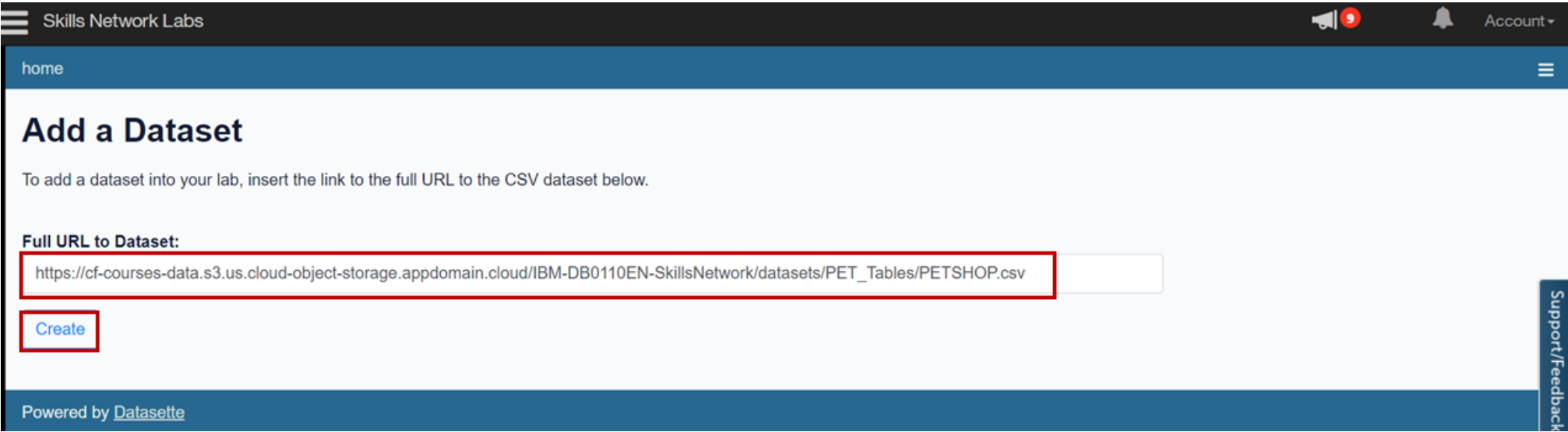
1. Once the Datasette tool is launched using the **Open tool**, click on the **Navigation Pane** at the right-end corner and then click on **Add DataSets** option.



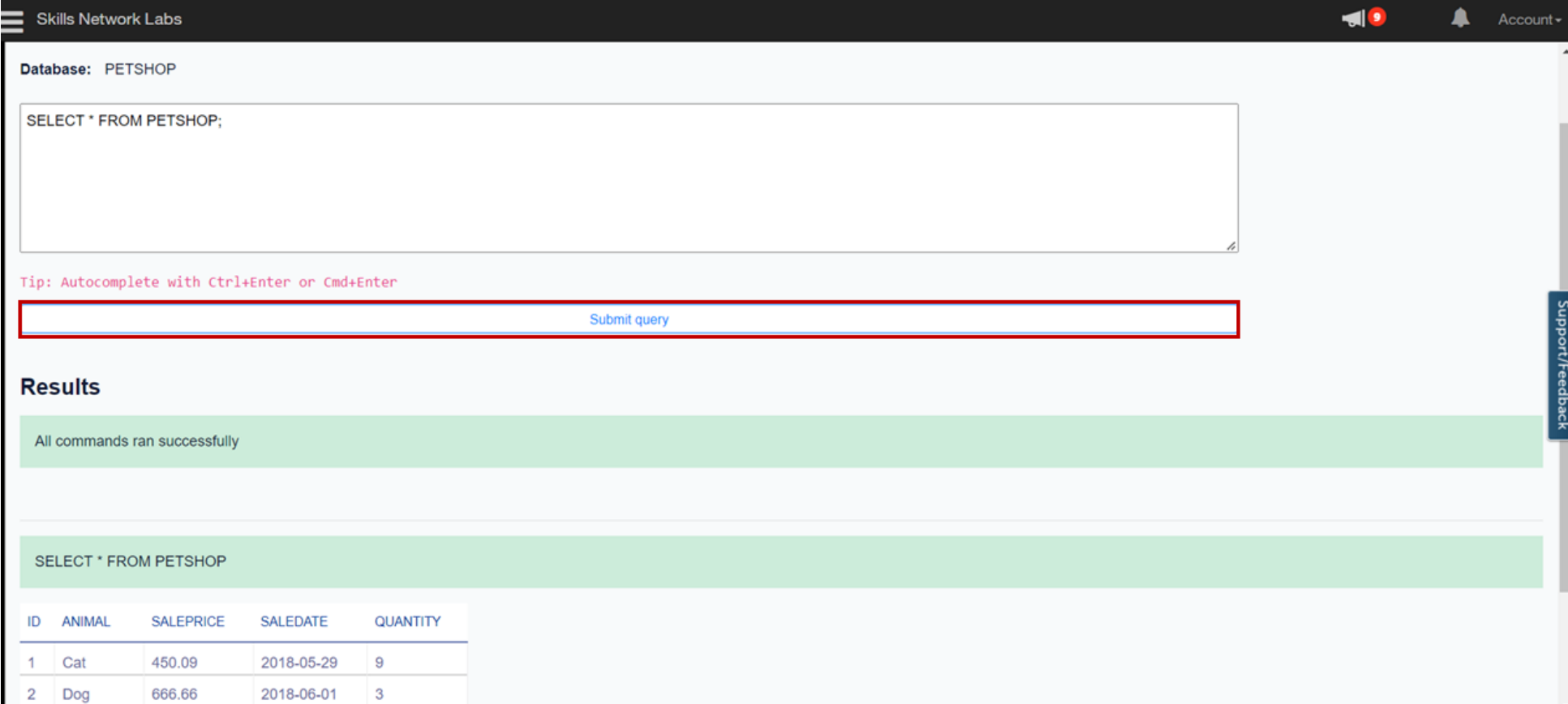
2. You will then be redirected to a page where you need to enter the full URL of the CSV dataset in the text box.
- Right-click on the link

[PETSHOP.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.

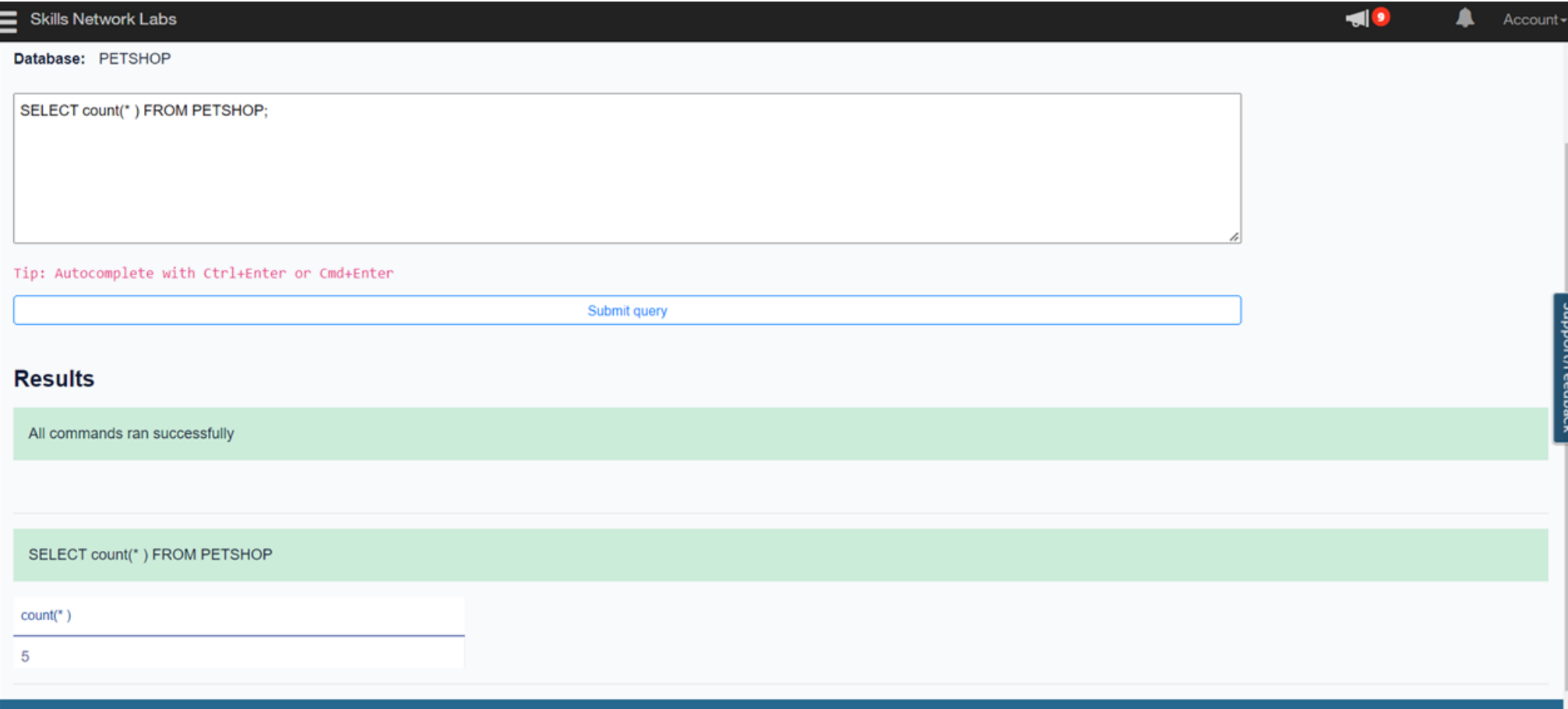


4. Next, modify the **SELECT** query as follows:

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

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

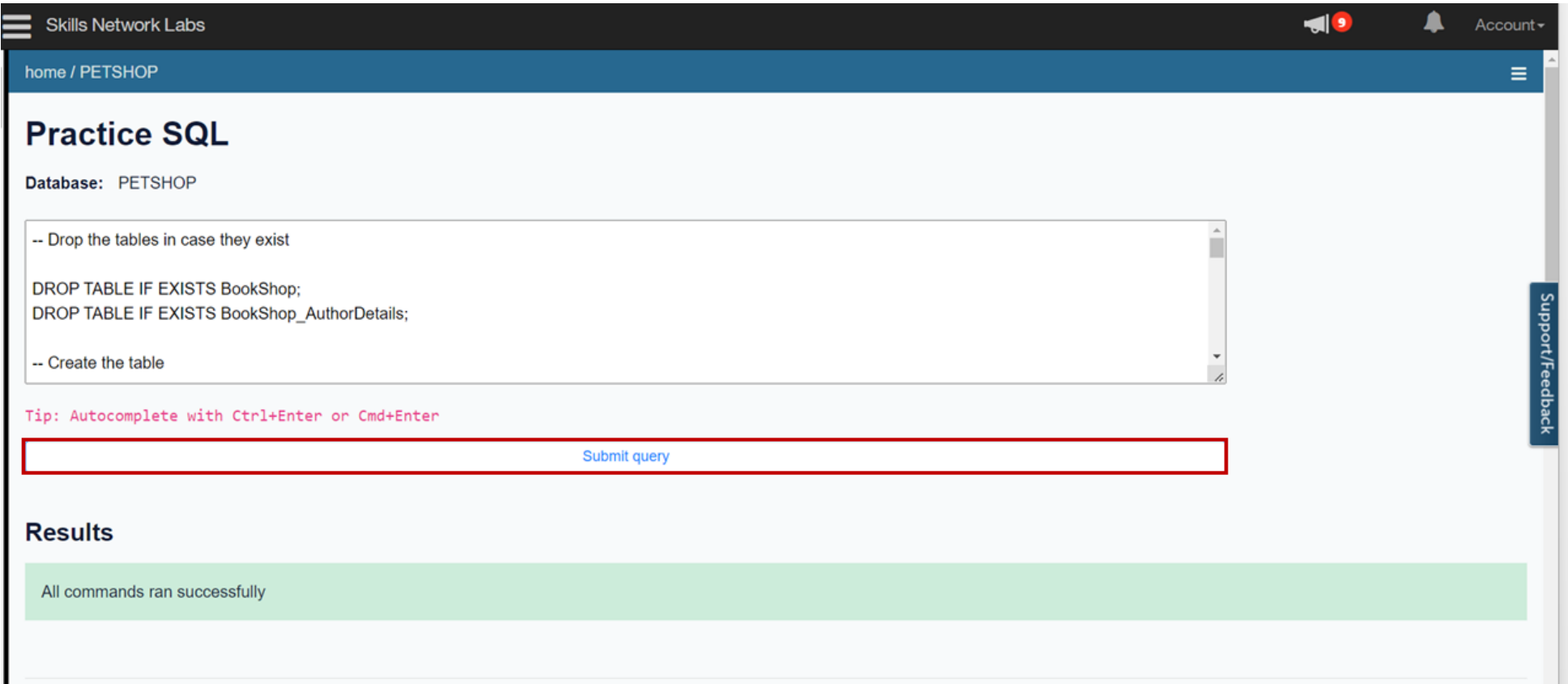
In this exercise, you will learn how to create a table and load data into it by executing a script containing the CREATE and INSERT SQL commands.

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.

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homePESHOP

Practice SQL

Database: PESHOP

-- Drop the tables in case they exist

DROP TABLE IF EXISTS BookShop;  
DROP TABLE IF EXISTS BookShop\_AuthorDetails;

-- Create the table

Tip: Autocomplete with Ctrl+Enter or Cmd+Enter

Submit query

Results

All commands ran successfully

4. This will redirect to a page where **Databases and Tables** are displayed.

- Click on the **BookShop** table under the **PetShop** Database.

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Datsette

memory

0 tables

internal

92 rows in 5 tables

[columns](#), [foreign\\_keys](#), [tables](#), [indexes](#), [databases](#)

Instructors

12 rows in 3 tables

[BookShop](#), [BookShop\\_AuthorDetails](#), [Instructor](#)

PETSHOP

10 rows in 2 tables

[PETSHOP](#), [BookShop](#)

Powered by Datasette

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

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home / PESHOP

BookShop

5 rows

- column -

=

Apply

[View and edit SQL](#)

This data as [json](#), [CSV \(advanced\)](#)

Suggested facets: [AUTHOR\\_NAME](#), [AUTHOR\\_BIO](#), [AUTHOR\\_ID](#), [PUBLICATION\\_DATE](#) (date)

Show charting options

Link	rowid	BOOK_ID	TITLE	AUTHOR_NAME	AUTHOR_BIO	AUTHOR_ID	PUBLICATION_DATE	PRICE_USD
1	1	B101	Introduction to Algorithms	Thomas H. Cormen	Thomas H. Cormen is the co-author of Introduction to Algorithms, along with Charles Leiserson, Ron Rivest, and Cliff Stein. He is a Full Professor of computer science at Dartmouth College and currently Chair of the Dartmouth College Writing Program.	123	2001-09-01	125
2	2	B201	Structure and Interpretation of Computer Programs	Harold Abelson	Harold Abelson, Ph.D., is Class of 1922 Professor of Computer Science and Engineering in the Department of Electrical Engineering and Computer Science at MIT and a fellow of the IEEE.	456	1996-07-25	65.5

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

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