



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 Abel |
| 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.

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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:

Create

Powered by [Datasette](#)

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.

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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-DB0110EN-SkillsNetwork/datasets/PET_Tables/PETSHOP.csv

Create

Powered by [Datasette](#)

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.

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Database: PETSHOP

SELECT * FROM PETSHOP;

Tip: Autocomplete with Ctrl+Enter or Cmd+Enter

Submit query

Results

All commands ran successfully

SELECT * FROM PETSHOP

| ID | ANIMAL | SALEPRICE | SALEDATE | QUANTITY |
|----|--------|-----------|------------|----------|
| 1 | Cat | 450.09 | 2018-05-29 | 9 |
| 2 | Dog | 666.66 | 2018-06-01 | 3 |



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.

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Database: PETSHOP

```
SELECT count(*) FROM PETSHOP;
```

Tip: Autocomplete with Ctrl+Enter or Cmd+Enter

Submit query

Results

All commands ran successfully

```
SELECT count(*) FROM PETSHOP
```

| count(*) |
|----------|
| 5 |

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 dataset **text area**.
 - Click on **Submit query** button.
 - The queries get executed.

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Practice SQL

Database: PETSHOP

```
-- 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

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

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Practice SQL

Database: PETSHOP

```
-- 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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Datasette

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 / PETSHOP

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 |
|------|---------|---------|---|------------------|---|-----------|-------------|
| 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 |
| 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 |

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

Author(s)

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- [Lakshmi Holla](#)

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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