



# databricks

## Academy

## DAWD 01-5 – Lab – Tables and Views on Databricks SQL

The two fields below are used to customize queries used in this course. Enter your schema (database) name and username, and press "Enter" to populate necessary information in the queries on this page.

Schema Name:

Username:



### Lab Objective

At the end of this lab, you will be able to:

- Use Databricks SQL to create tables and views



### Create External Tables

In this part of the lab, you are going to create an external table using a dataset located at 'wasbs://courseware@dbacademy.blob.core.windows.net/data-analysis-with-databricks/v02/retail-org/sales/sales\_delta'.

Complete the following:

1. Copy the query below into the query editor
2. Make changes to the places marked "FILL\_IN"
3. Run the query in Databricks SQL
4. Check your work by entering your answer to the question
5. After pressing ENTER/RETURN, green indicates a correct answer, and red indicates incorrect

```
USE hive_metastore.class_013_odg7_da_dawd;  
DROP TABLE IF EXISTS sales_external;  
CREATE FILL_IN sales_external USING DELTA  
  FILL_IN 'wasbs://courseware@dbacademy.blob.core.windows.net/data-analysis-with-  
databricks/v02/retail-org/sales/sales_delta';  
SELECT * FROM sales_external ORDER BY customer_id;
```

[Show Answer](#)[Copy](#)

What is the value of `customer_id` in the first row?

## Create Managed Table

The data for the table we created above is in a read-only object store. We want to copy the data into a local, managed table here in our workspace. In this part of the lab, we are going to create a managed table using a subquery, which we will learn about later in this course, to accomplish this.

Complete the following:

1. Copy the query below into the query editor
2. Make changes to the places marked "FILL\_IN"
3. Run the query in Databricks SQL
4. Check your work by entering your answer to the question
5. After pressing ENTER/RETURN, green indicates a correct answer, and red indicates incorrect

```
USE hive_metastore.class_013_odg7_da_dawd;  
FILL_IN TABLE sales USING DELTA AS  
  SELECT * FROM sales_external;  
DESCRIBE FILL_IN sales;
```

[Show Answer](#)[Copy](#)

What is the value of owner?

## Use Data Explorer

In this part of the lab, you will use the Data Explorer to find the answer to the question below.

Complete the following:

1. Click "Data" in the sidebar menu to go to the Data Explorer
2. Check to the right of 'hive\_metastore'. If your schema isn't selected, click on "default" and in the drop down menu, and select it.
3. Select the table, "sales" from the list
4. Feel free to explore the tabs to see more information about this table
5. When you are ready, enter your answer to the question below
6. After pressing ENTER/RETURN, green indicates a correct answer, and red indicates incorrect

Under History, what was the operation associated with Version 1 of the table?

## Drop Table

We are going to keep the managed table, but we need to drop the external table.

Complete the following:

1. Copy the query below into the query editor
2. Make changes to the places marked "FILL\_IN" to drop the table, `sales_external` from the schema
3. Run the query in Databricks SQL
4. The 'DESCRIBE' command should fail since metadata has been removed
5. Check your work by entering your answer to the question
6. After pressing ENTER/RETURN, green indicates a correct answer, and red indicates incorrect

```
USE hive_metastore.class_013_odg7_da_dawd;  
FILL_IN TABLE sales_external;  
DESCRIBE FILL_IN sales_external;
```

[Show Answer](#)[Copy](#)

Did the 'DESCRIBE' command fail? (yes or no)

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