

## Assisted Practice 6: Working with Hive Query

### Editor

**Problem Scenario:** In this demonstration, you will work with the Hive Query editor

**Objective:** In this demonstration, you will use the Hive Query editor to create a table in a directory.

**Dataset Name:** "drivers.csv"

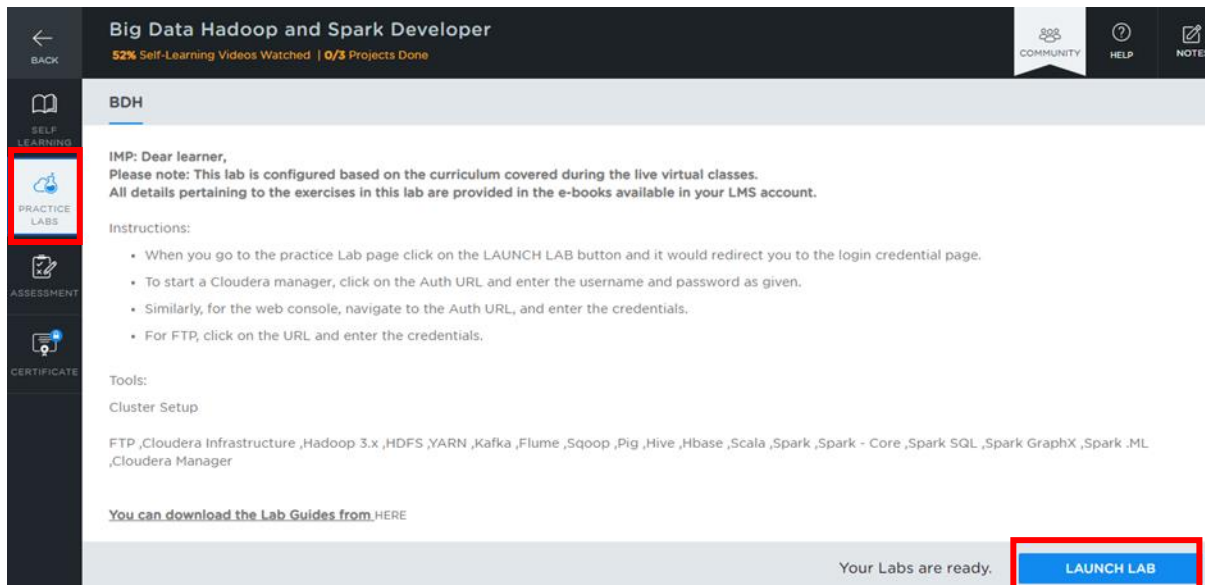
#### **Steps to Perform:**

**Step 1:** Download the dataset named "drivers.csv" from the course resources section

**Step 2:** Log in to your LMS account

**Step 3:** Open the course "Big Data Hadoop and Spark Developer"

**Step 4:** On the left side, click on the "PRACTICE LABS" tab and then click on the "LAUNCH LAB" button



**Big Data Hadoop and Spark Developer**  
52% Self-Learning Videos Watched | 0/3 Projects Done

**BDH**

IMP: Dear learner,  
Please note: This lab is configured based on the curriculum covered during the live virtual classes.  
All details pertaining to the exercises in this lab are provided in the e-books available in your LMS account.

Instructions:

- When you go to the practice Lab page click on the LAUNCH LAB button and it would redirect you to the login credential page.
- To start a Cloudera manager, click on the Auth URL and enter the username and password as given.
- Similarly, for the web console, navigate to the Auth URL, and enter the credentials.
- For FTP, click on the URL and enter the credentials.

Tools:

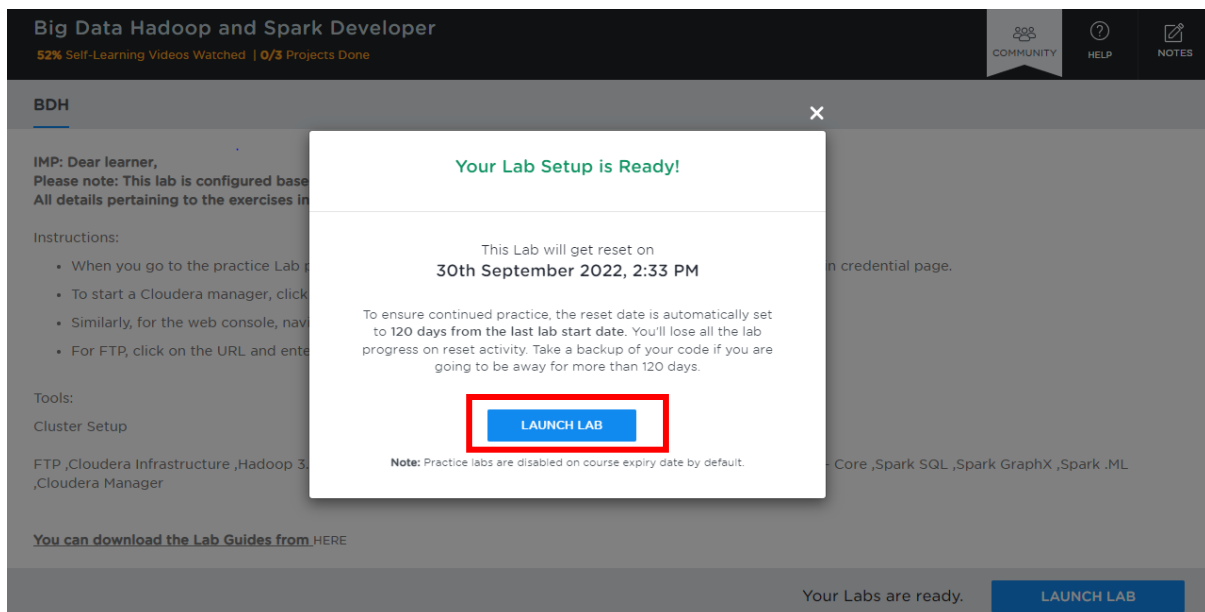
Cluster Setup

FTP ,Cloudera Infrastructure ,Hadoop 3.x ,HDFS ,YARN ,Kafka ,Flume ,Sqoop ,Pig ,Hive ,Hbase ,Scala ,Spark ,Spark - Core ,Spark SQL ,Spark GraphX ,Spark .ML ,Cloudera Manager

[You can download the Lab Guides from HERE](#)

Your Labs are ready. **LAUNCH LAB**

**Step 5:** Again, click on the **“LAUNCH LAB”** button



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Your Labs are ready. **LAUNCH LAB**

**Your Lab Setup is Ready!**

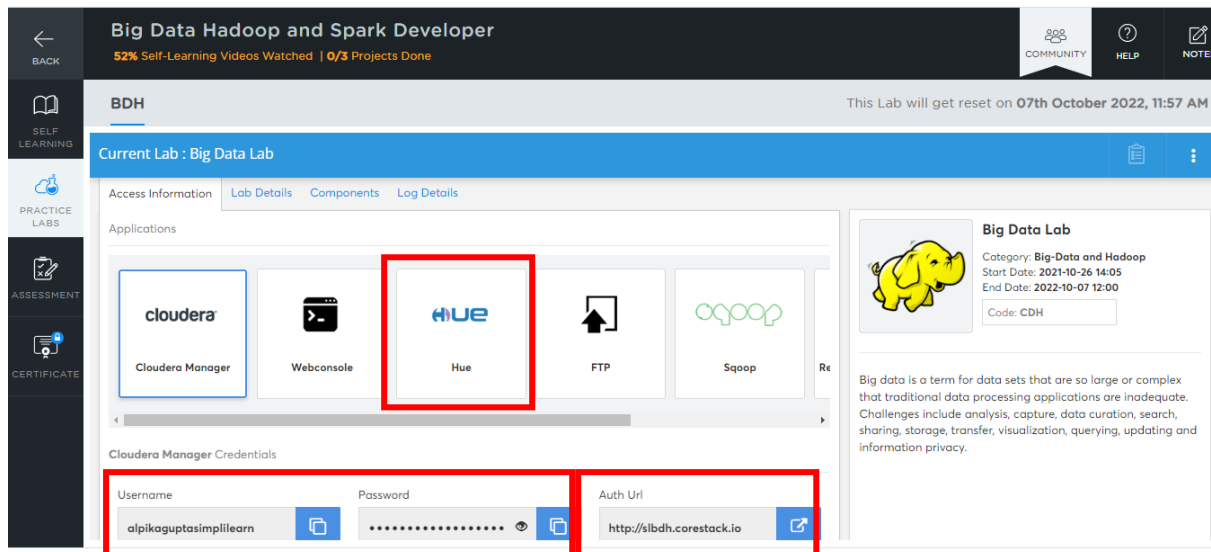
This Lab will get reset on  
**30th September 2022, 2:33 PM**

To ensure continued practice, the reset date is automatically set to 120 days from the last lab start date. You'll lose all the lab progress on reset activity. Take a backup of your code if you are going to be away for more than 120 days.

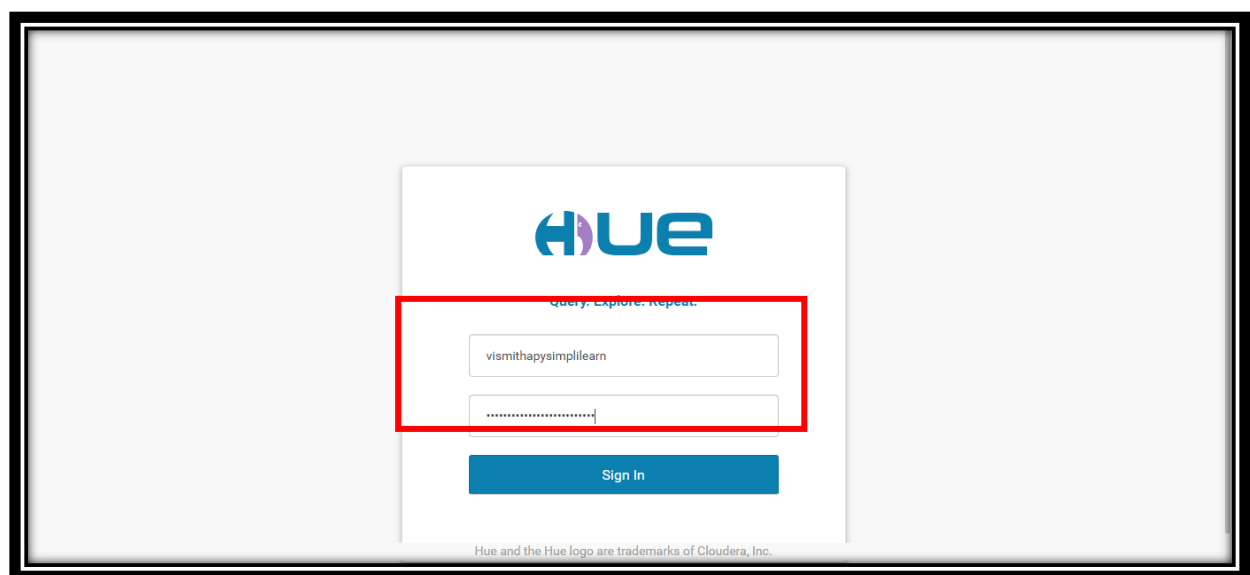
**LAUNCH LAB**

**Note:** Practice labs are disabled on course expiry date by default.

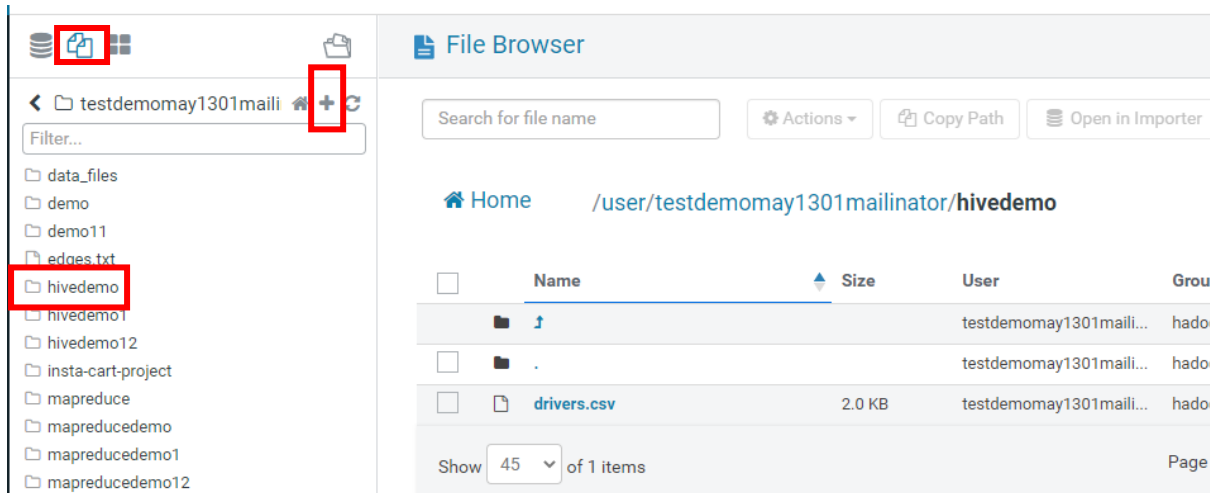
**Step 6:** Click on **“Hue”** and click on the **“Auth Url”** to upload the dataset and copy the **“Username”** and the **“Password”** provided to log in to the **“Hue”**



**Step 7:** Paste the **“Username”** and the **“Password”** on the login window and click on **“Sign In”**



**Step 8:** Create a directory named **“hivedemo”** and click on the **“HDFS”** icon and click on the **“+”** symbol to upload the dataset

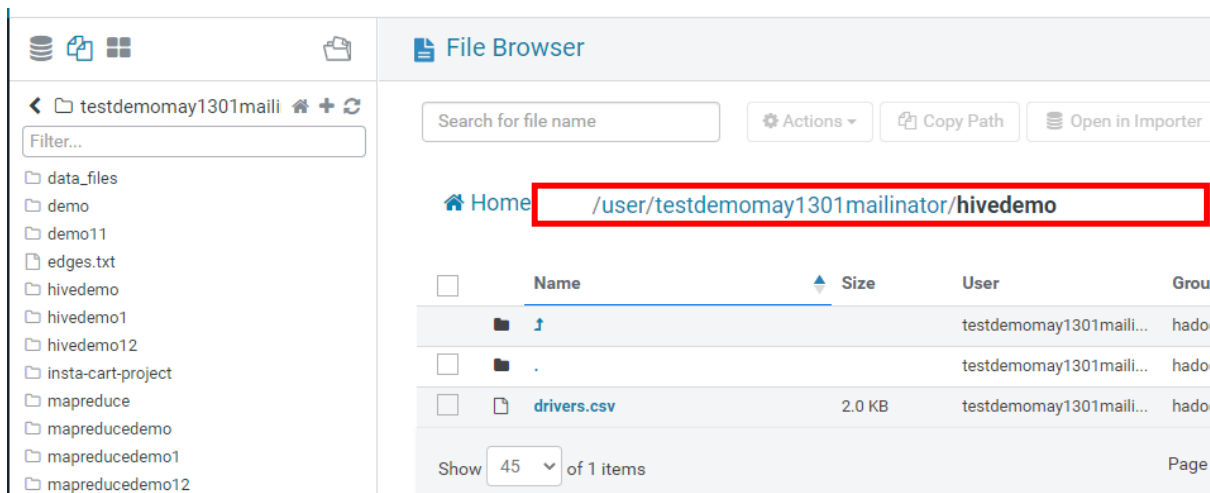


The screenshot shows the 'File Browser' interface. On the left sidebar, the 'hivedemo' folder is selected and highlighted with a red box. The main view shows the path `/user/testdemomay1301mailinator/hivedemo` highlighted with a red box. Below the path, there is a table listing files and folders:

Name	Size	User	Group
↑		testdemomay1301maili...	hado
.		testdemomay1301maili...	hado
drivers.csv	2.0 KB	testdemomay1301maili...	hado

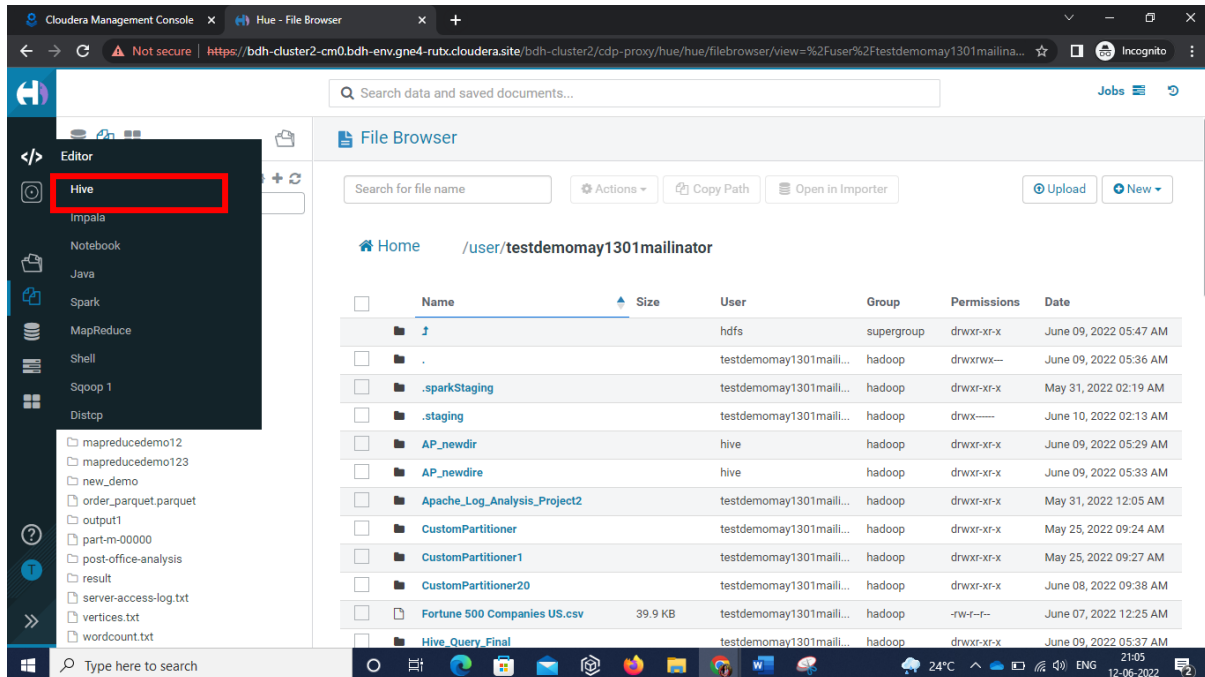
At the bottom, it says 'Show 45 of 1 items'.

**Step 9:** Copy the path of the dataset that has been uploaded



This screenshot is identical to the previous one, but the path `/user/testdemomay1301mailinator/hivedemo` in the main view is highlighted with a red box, indicating it should be copied.

**Step 10:** Click on the “Hive” icon and open the Hive editor



**Step 11:** Create a database and a table in it to store the data as shown below:

create database Hive\_Test;

CREATE EXTERNAL TABLE Hive\_Test.drivers

(

driverId INT,

name STRING,

ssn BIGINT,

location STRING,

certified STRING,

wageplan STRING

)

row format delimited fields terminated by ','

LOCATION '/user/testdemomay1301mailinator/new\_demo/'

TBLPROPERTIES("skip.header.line.count"="1");

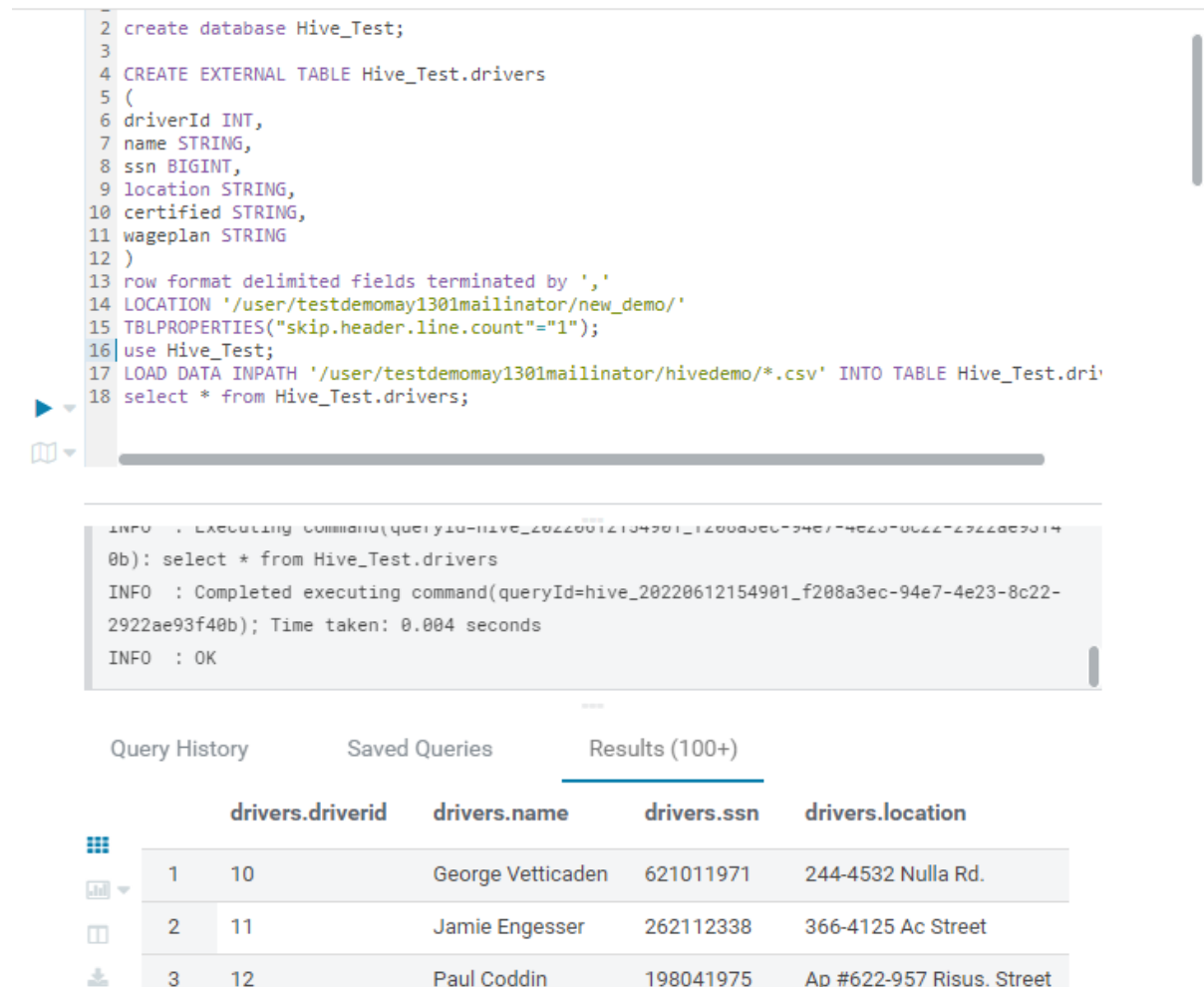
**Note:** The parameter LOCATION determines where exactly the new hive table will be created.

**Step 12:** Next, upload data by writing the below query

```
use Hive_Test;
LOAD DATA INPATH '/user/testdemomay1301mailinator/hivedemo/*.csv' INTO
TABLE Hive_Test.drivers;
```

**Step 13:** Verify the data by executing the below command:

```
select * from Hive_Test.drivers;
```



```

2 create database Hive_Test;
3
4 CREATE EXTERNAL TABLE Hive_Test.drivers
5 (
6 driverId INT,
7 name STRING,
8 ssn BIGINT,
9 location STRING,
10 certified STRING,
11 wageplan STRING
12 )
13 row format delimited fields terminated by ','
14 LOCATION '/user/testdemomay1301mailinator/new_demo/'
15 TBLPROPERTIES("skip.header.line.count"="1");
16 use Hive_Test;
17 LOAD DATA INPATH '/user/testdemomay1301mailinator/hivedemo/*.csv' INTO TABLE Hive_Test.drivers;
18 select * from Hive_Test.drivers;
```

```

INFO : Executing command(queryId=hive_20220612154901_f208a3ec-94e7-4e23-8c22-2922ae93f40b): select * from Hive_Test.drivers
INFO : Completed executing command(queryId=hive_20220612154901_f208a3ec-94e7-4e23-8c22-2922ae93f40b); Time taken: 0.004 seconds
INFO : OK
```

	drivers.driverid	drivers.name	drivers.ssn	drivers.location
1	10	George Vetticaden	621011971	244-4532 Nulla Rd.
2	11	Jamie Engesser	262112338	366-4125 Ac Street
3	12	Paul Coddin	198041975	Ap #622-957 Risus. Street

**Step 14:** Now, you will be able to see **"drivers.csv"** which will be created under the new\_demo folder.

/ user/ testdemomay1301mailinator/ new\_demo/ drivers .csv

```
driverId,name,ssn,location,certified,wage-plan
10,George Vetticaden,621011971,244-4532 Nulla Rd.,N,miles
11,Jamie Engesser,262112338,366-4125 Ac Street,N,miles
12,Paul Coddin,198041975,Ap #622-957 Risus. Street,Y,hours
13,Joe Niemiec,139907145,2071 Hendrerit. Ave,Y,hours
14,Adis Cesir,820812209,Ap #810-1228 In St.,Y,hours
15,Rohit Bakshi,239005227,648-5681 Dui- Rd.,Y,hours
16,Tom McCuch,363303105,P.O. Box 313- 962 Parturient Rd.,Y,hours
17,Eric Mizell,123808238,P.O. Box 579- 2191 Gravida. Street,Y,hours
18,Grant Liu,171010151,Ap #928-3159 Vestibulum Av.,Y,hours
19,Ajay Singh,160005158,592-9430 Nonummy Avenue,Y,hours
20,Chris Harris,921812303,883-2691 Proin Avenue,Y,hours
21,Jeff Markham,209408086,Ap #852-7966 Facilisis St.,Y,hours
22,Nadeem Asghar,783204269,154-9147 Aliquam Ave,Y,hours
23,Adam Diaz,928312208,P.O. Box 260- 6127 Vitae Road,Y,hours
24,Don Hilborn,254412152,4361 Ac Road,Y,hours
```