Assisted Practice 6.1: Working with Hive Query Editor Using Metadata

Problem Scenario: In this demonstration, you will work with the Hive Query editor and external table

Objective: In this demonstration, you will use Hive Query editor to create an EXTERNAL table where even after dropping tables, data will remain intact, and metadata will be cleaned.

Dataset Name: "drivers.csv"

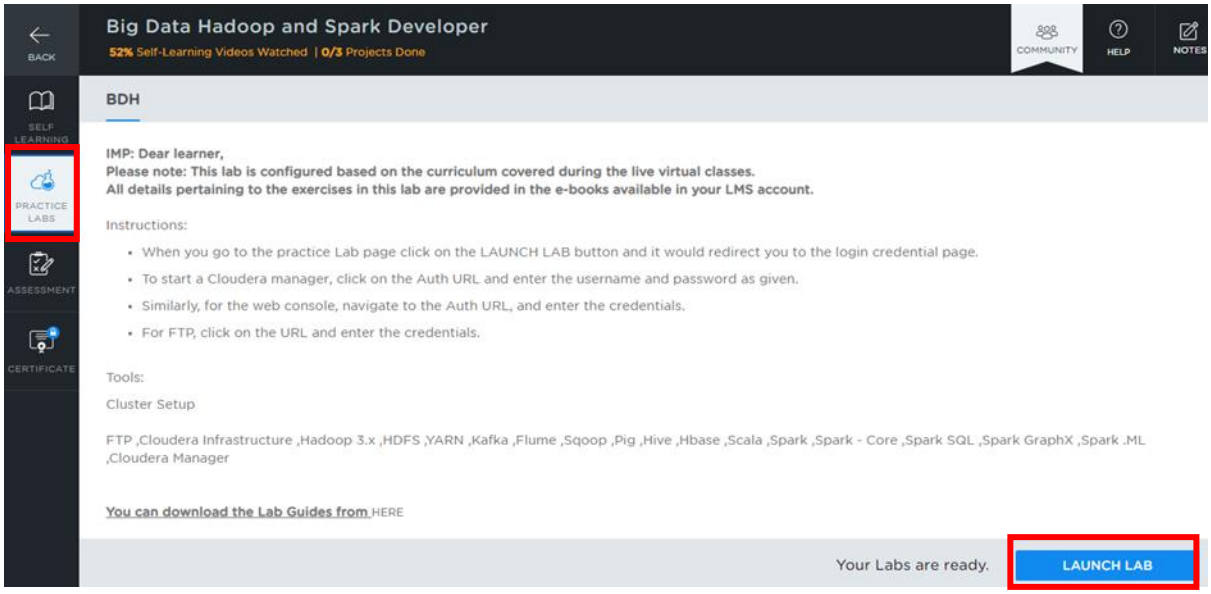
Steps to Perform:

Step 1: Download the dataset named **"drivers.csv"** from the Course Resources section

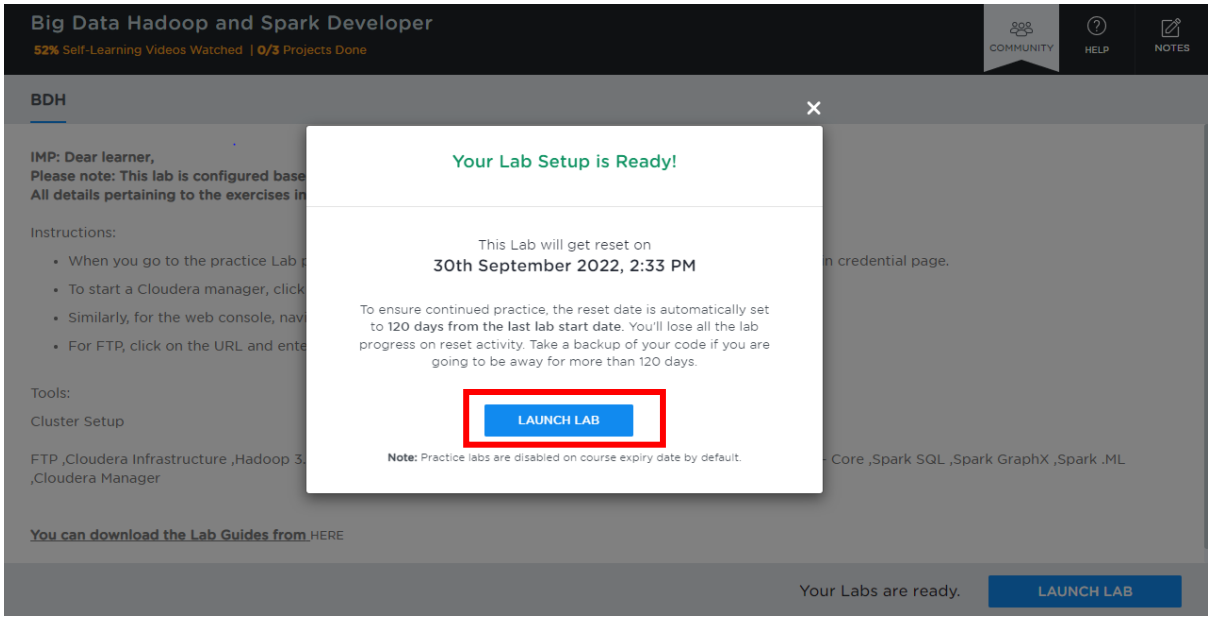
Step 2: Log in to your LMS account

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

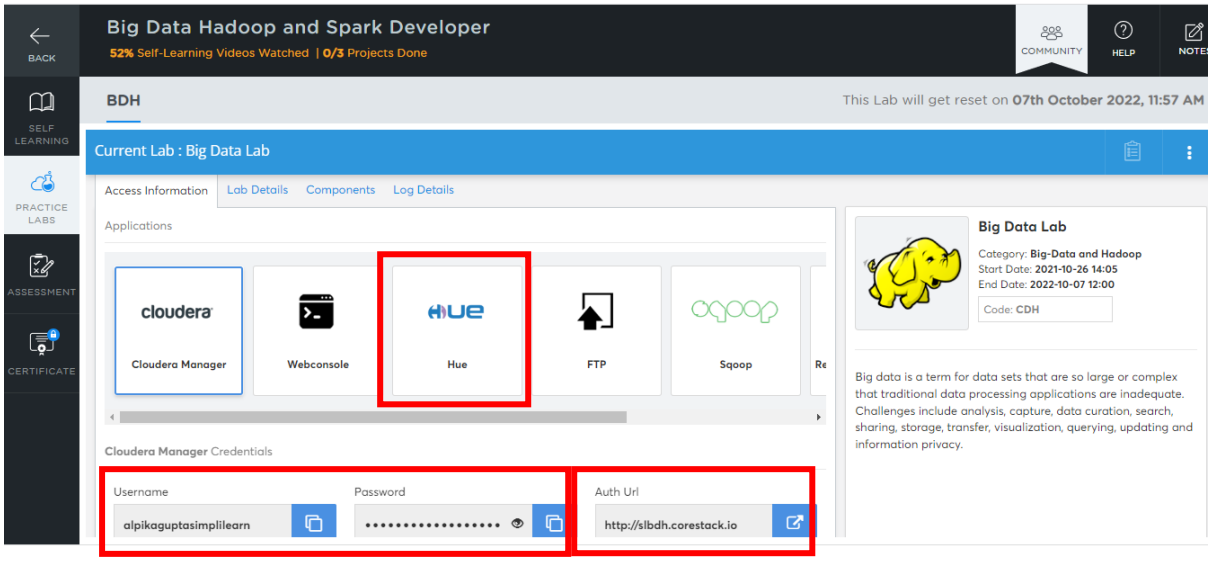
Step 4: On the left side, click on the **"PRACTICE LABS"** tab and then click on the **"LAUNCH LAB"** button



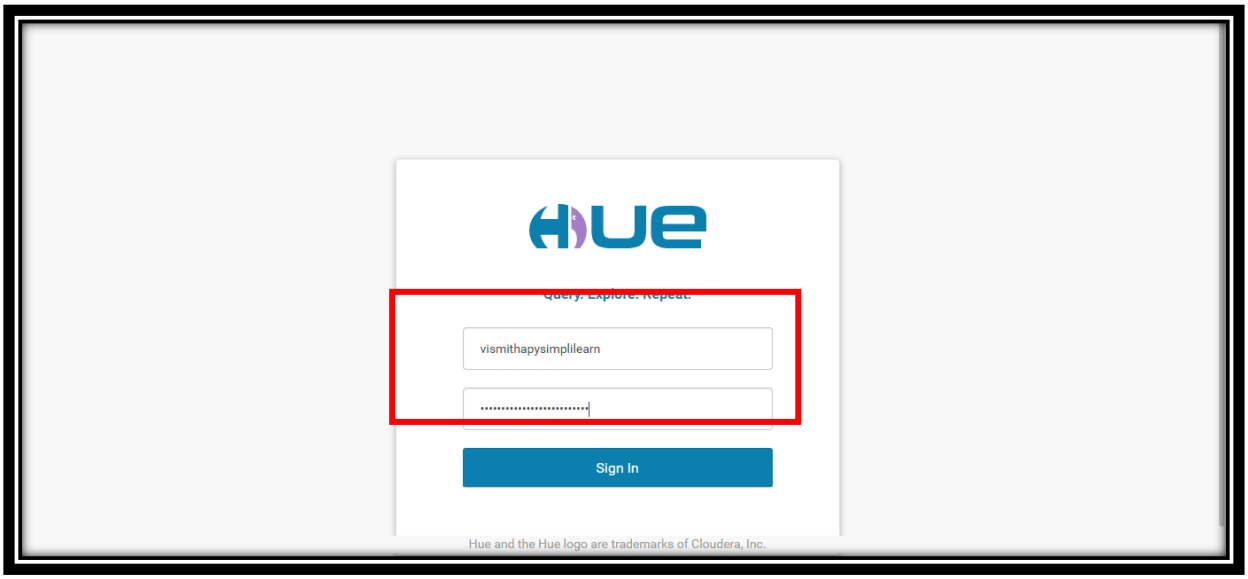
Step 5: Again, click on the **"LAUNCH LAB"** button



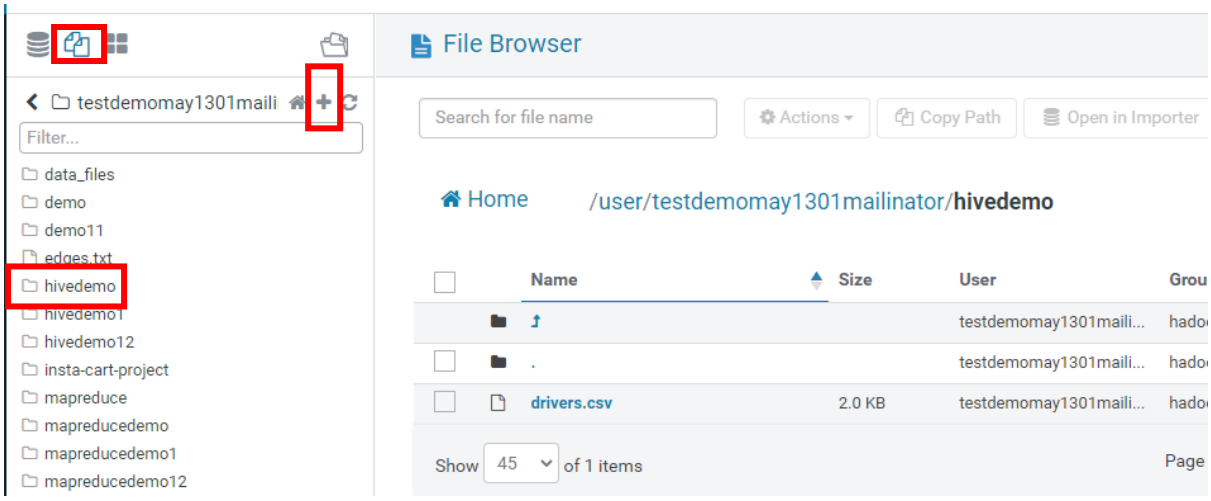
Step 6: Click on **"Hue"** and click on the **"Auth Url"** to upload the dataset and copy the "**Username**" and the "**Password**" provided to log in to the **"Hue"**



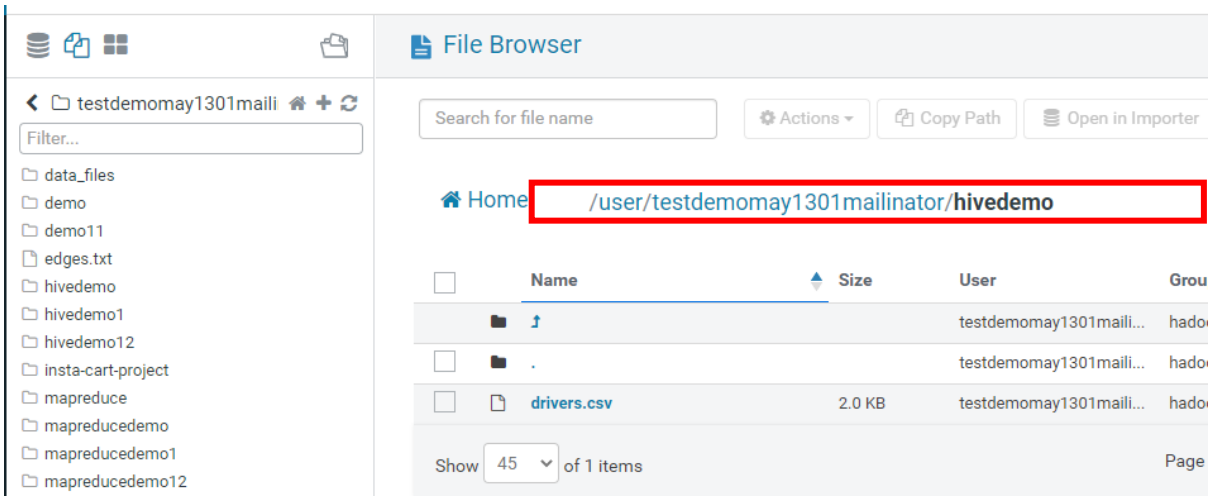
Step 7: Paste the **"Username"** and the **"Password"** on the login window and click on **"Sign In"**



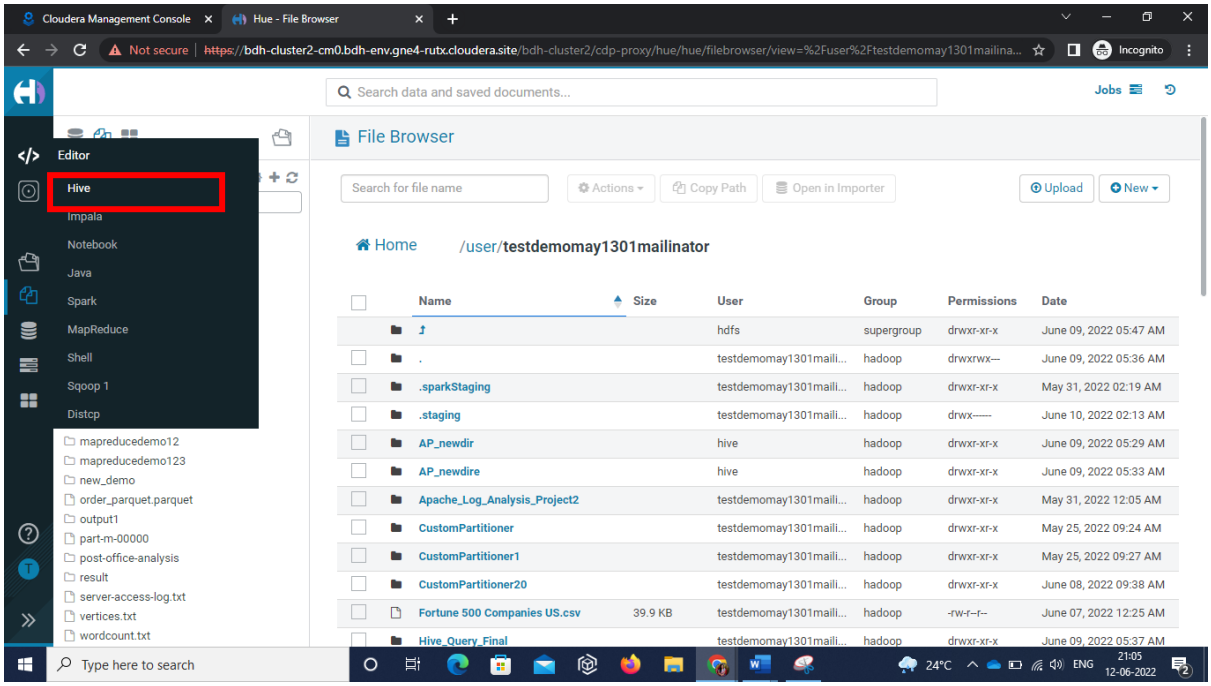
Step 8: Create a directory named **"hivedemo"** and click on the **"HDFS"** icon and click on the **"+"** symbol to upload the dataset



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



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 command:

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;

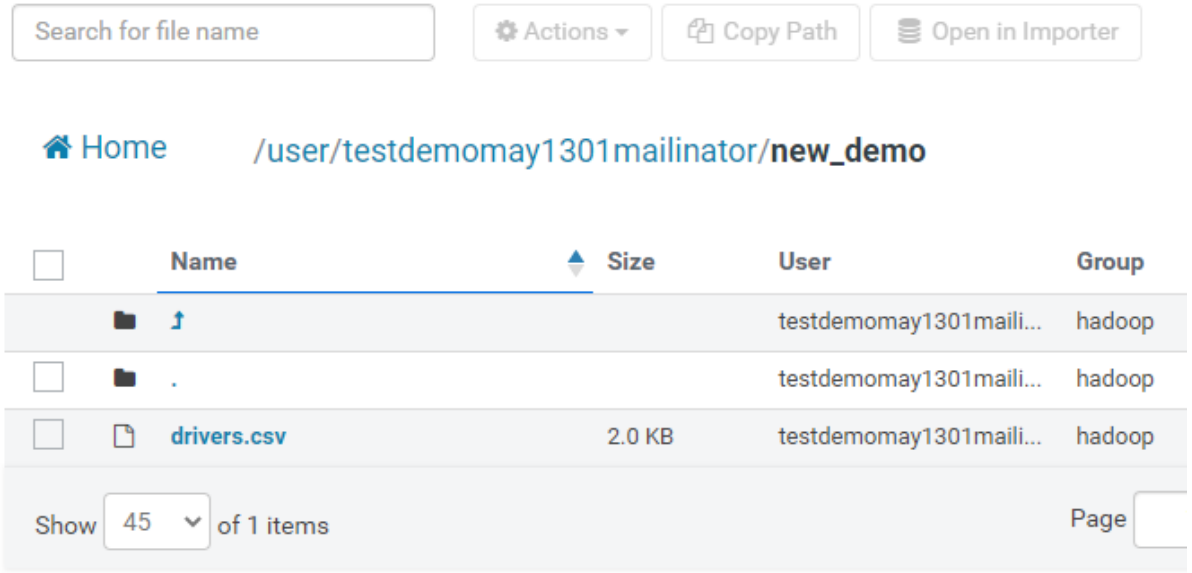
```
create database Hive_Test;

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");
use Hive_Test;
LOAD DATA INPATH '/user/testdemomay1301mailinator/hivedemo/*.csv' INTO TABLE Hive_Test.dri
select * from Hive_Test.drivers;
```

```
0b): select * from Hive_Test.drivers
INFO  : Completed executing command(queryId=hive_20220612154901_f208a3ec-94e7-4e23-8c22-2922ae93f40b); Time taken: 0.004 seconds
INFO  : OK
```

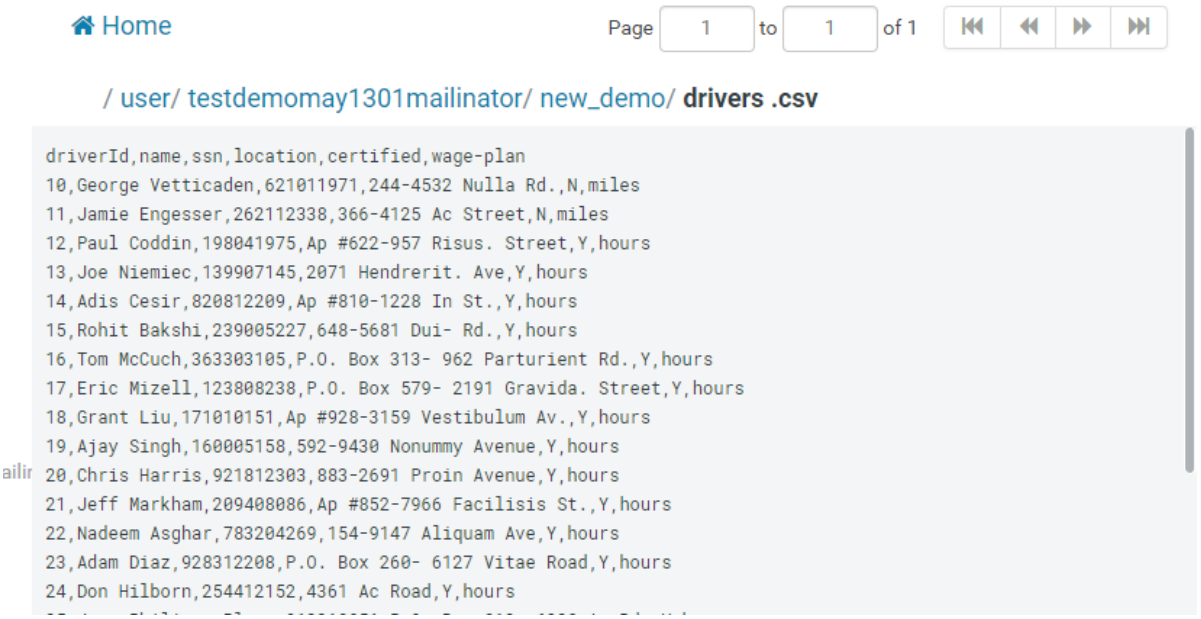
Query History | Saved Queries | Results (100+)

	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



Step 15: So, you can see the data, as well as metadata, is present



Step 16: Now, drop the table as shown below:

Command:

drop table Hive_Test.drivers

Step 17: After this verify the table using the below command:

Command:

select * from Hive_Test.drivers;

0s hiveap111

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


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

Error while compiling statement: FAILED: SemanticException [Error 10001]: line 20:43 Table not found 'drivers'

Step 18: As you can see the error: no table found, go to /user/testdemomay1301mailinator/new_demo/drivers.csv and the data can be still seen there

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/ 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
25,Jean-Philippe Playe,913310051,P.O. Box 812- 6238 Ac Rd.,Y,hours
```