

# Apache Hive

by Sumit Mittal



#### IMPORTANT

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# Hive External Table



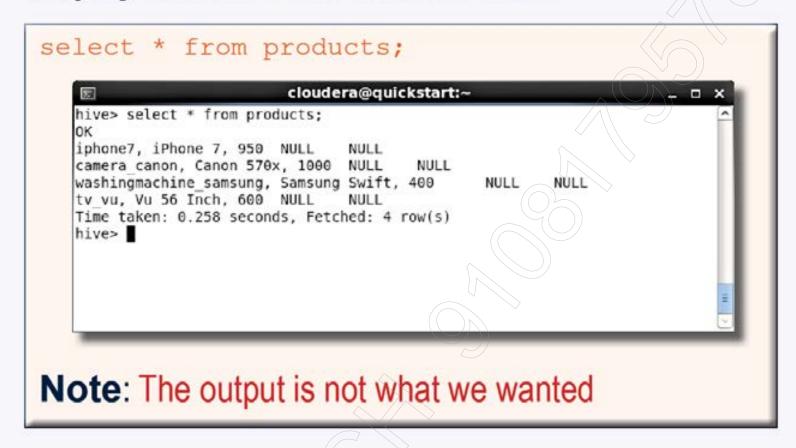
#### **External Table**

In External table, data not fully managed by Hive:

- Share the underlying data across other applications (Hadoop, Pig, HBase, etc)
- Deleting an external table deletes only the metadata

#### Create an external table in Hive:

#### Display records of an external table:



#### Open a new terminal and enter to Beeline:

beeline -u jdbc:hive2://

```
File Edit View Search Terminal Help

[cloudera@quickstart ~]$ beeline -u jdbc:hive2://
scan complete in 7ms
Connecting to jdbc:hive2://
Connected to: Apache Hive (version 1.1.0-cdh5.13.0)
Driver: Hive JDBC (version 1.1.0-cdh5.13.0)
Transaction isolation: TRANSACTION REPEATABLE READ
Beeline version 1.1.0-cdh5.13.0 by Apache Hive
0: jdbc:hive2://>
```

# Display the same records of *products* external table using Beeline:

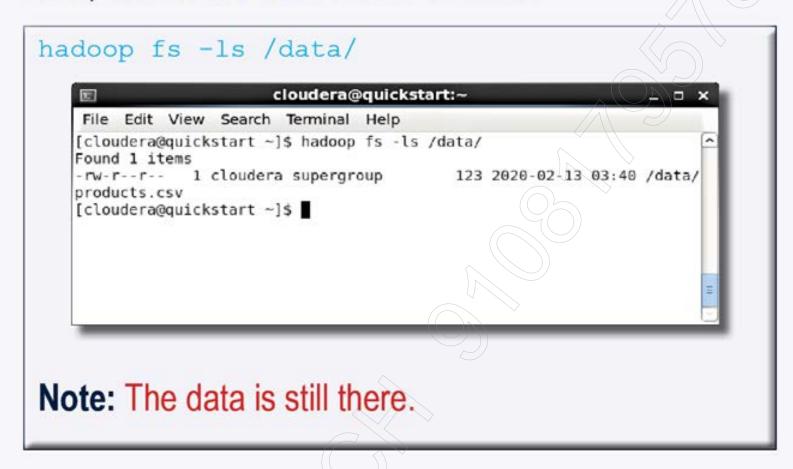
select \* from products;

```
cloudera@quickstart:~
File Edit View Search Terminal Help
0: jdbc:hive2://> select * from products;
                  products.id
 iphone7, iPhone 7, 950
                                                NULL
 camera canon, Canon 570x, 1000
                                                NULL
                                                                  NULL
 washingmachine_samsung, Samsung Swift, 400
                                                NULL
 tv vu, Vu 56 Inch, 600
                                                NULL
                                                                  NULL
                                                NULL
                                                                  NULL
                                                NULL
6 rows selected (0.301 seconds)
0: jdbc:hive2://>
```

#### Drop an external table:

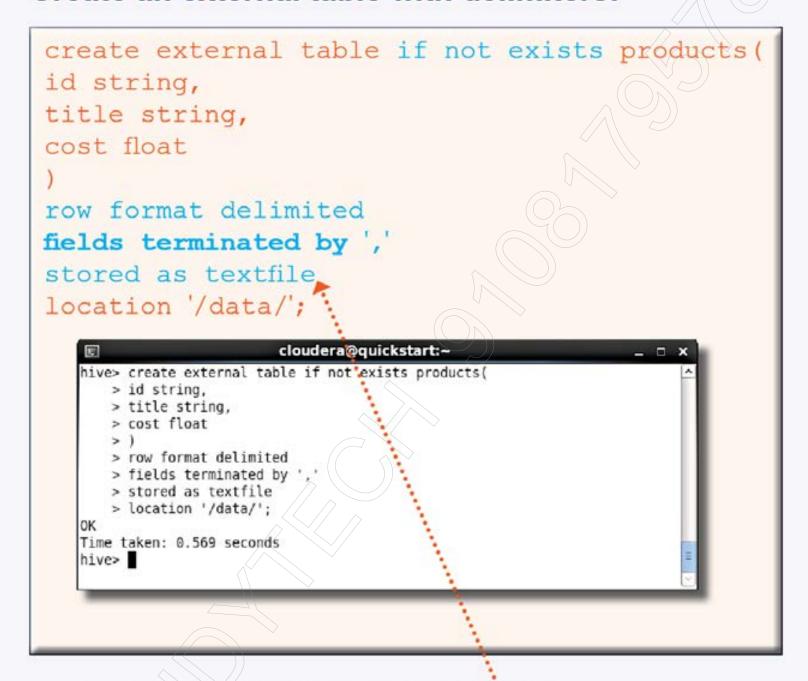
```
cloudera@quickstart:~
hive> drop table products;
OK
Time taken: 5.54 seconds
hive>
```

#### Now, check the data folder in hdfs:



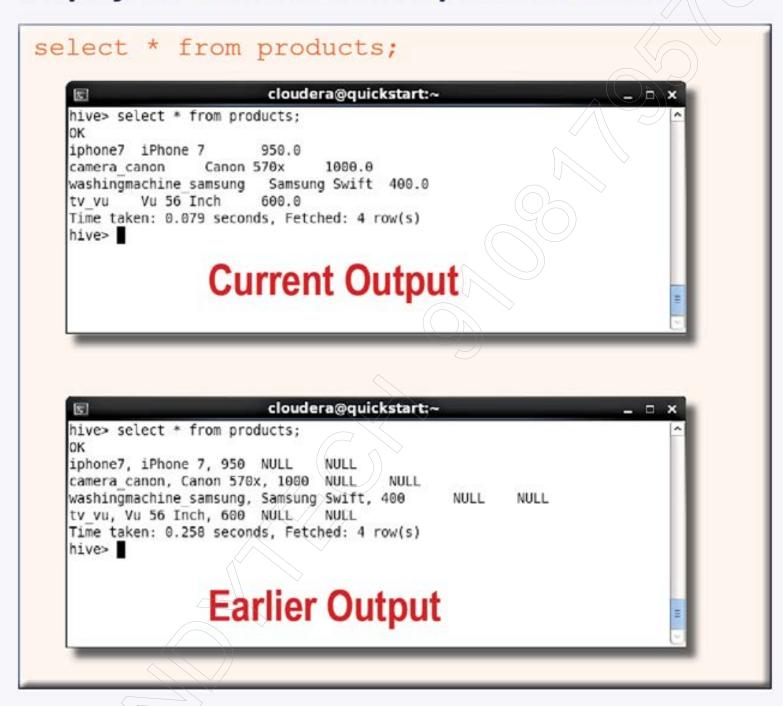
**Note:** In Hive External table, data not fully managed by Hive and exists outside the warehouse directory.

#### Create an external table with delimiters:



Note: Hive by default takes **text** file format [We can skip this line also].

#### Display the contents of new products table:

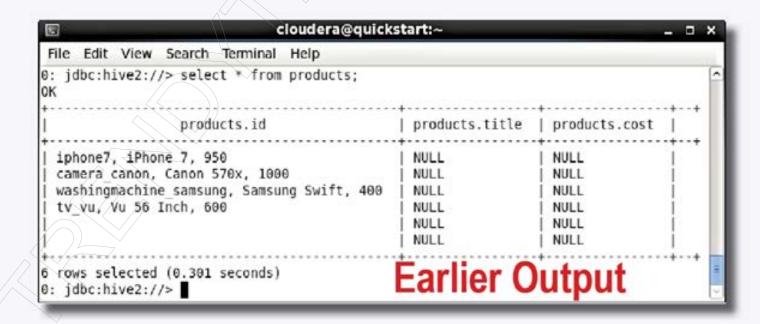


# Display the same records (*products*) external table using Beeline:

beeline -u jdbc:hive2:// - 1st enter beeline

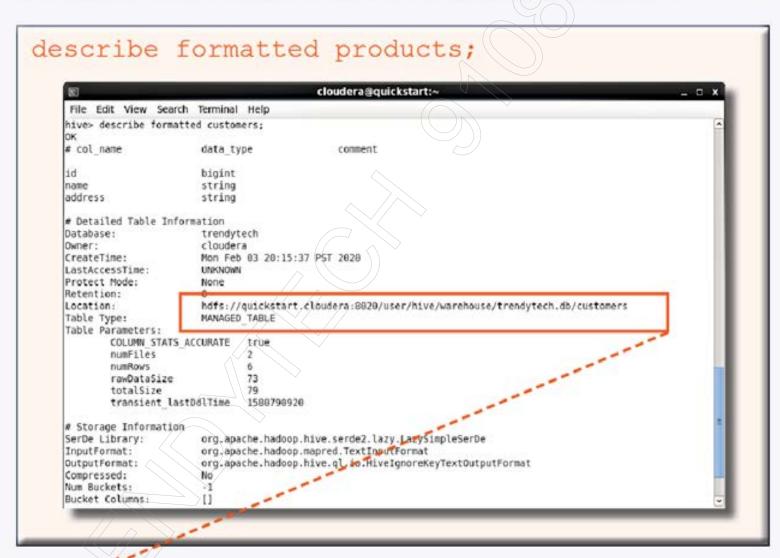
select \* from products;

```
cloudera@quickstart:~
File Edit View Search Terminal Help
0: jdbc:hive2://> select * from products;
0K
                        | products.title | products.cost
       products.id
                          iPhone 7
                                          950.0
 iphone7
                           Canon 570x
                                          1000.0
 camera canon
 washingmachine samsung
                         Samsung Swift
                                          400.0
                          Vu 56 Inch
                                           600.0
 rows selected (3.473 seconds)
                                 Current Output
0: jdbc:hive2://>
```



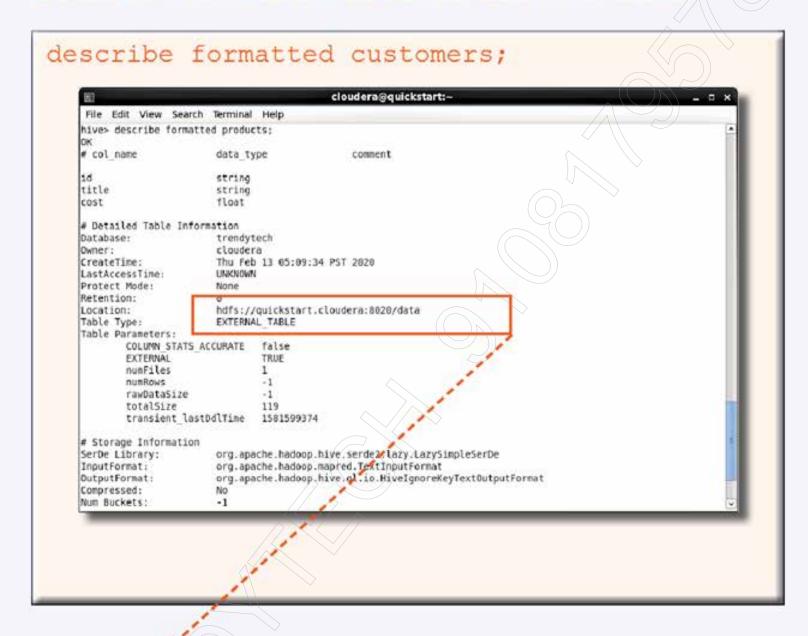
## How to know a table is Managed or External in Hive:

#### Detailed information about a Managed table:



Note: Location should be Warehouse directory and Table Type must be MANAGED TABLE

#### Detailed information about an External table:



Note: Location should be HDFS and Table Type must be EXTERNAL TABLE



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Trainer Mr. Sumit Mittal

LinkedIn https://www.linkedin.com/in/bigdatabysumit/

Website https://trendytech.in/courses/big-data-online-training/

Phone 9108179578

Email trendytech.sumit@gmail.com

Youtube TrendyTech

Twitter @BigdataBySumit

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