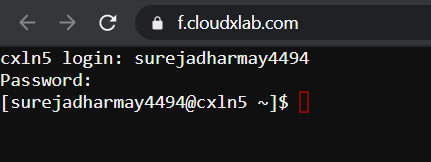
Practical-12

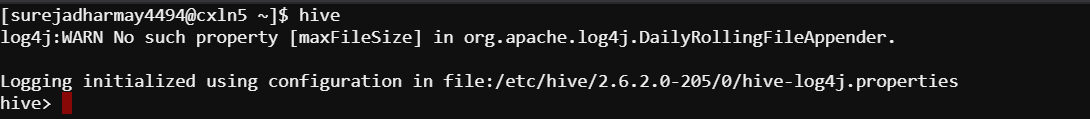
**Apache Hive**

**STEPS :**

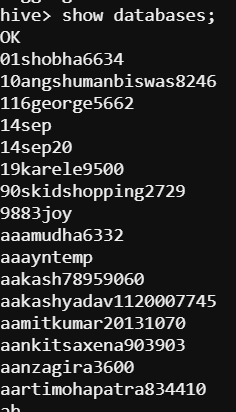
* Login to the web console using your CloudXLab Username & password .



* Launch Hive by Typing hive in the Web console

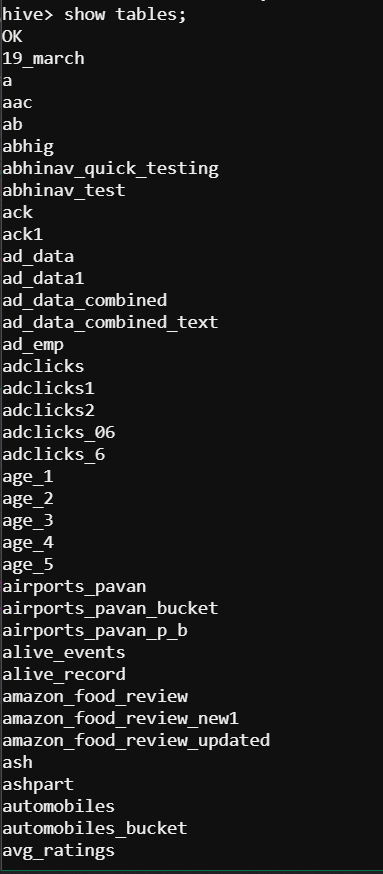
****

* TO see the list of all databases type command .

**show databases ;**

* To see the list of all tables type command .

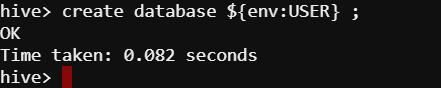
**show tables ;**



* To create your own database run below command .

${enc:USER} gets replaced by your username automatically

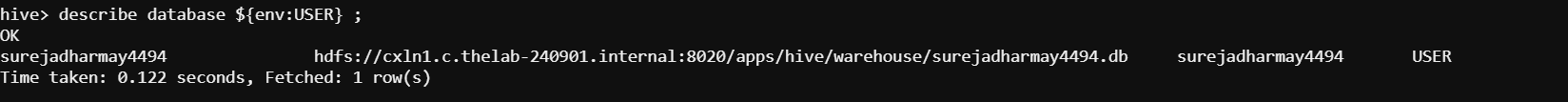
**create database ${env:USER} ;**

****

* To see metadata of your database run below commands .

${enc:USER} gets replaced by your username automatically

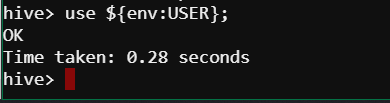
**describe database ${env:USER} ;**

****

* To use your database run below commands .

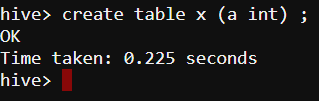
${enc:USER} gets replaced by your username automatically

**use ${env:USER} ;**



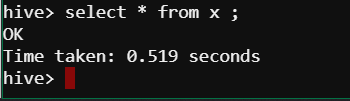
* To create a table x in your database type commands .

**create table x (a int) ;**

****

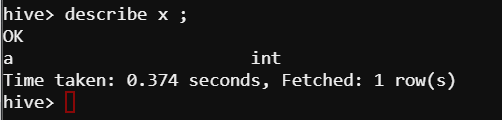
* To view the data of table x type commands .

**select \* from x ;**



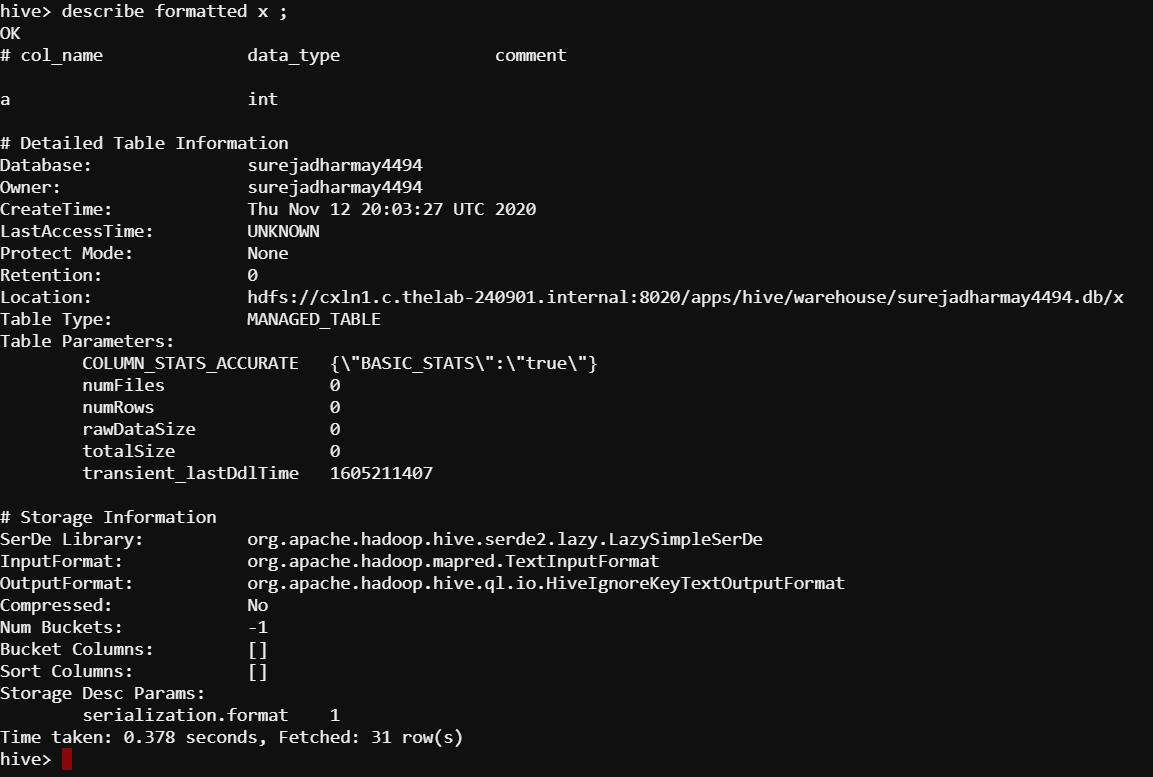
* To view the metadata(structure) of table type commands .

**describe x ;**



* To see the metadata and low-level details type commands .

**describe formatted x ;**

****

**Create a table called nyse in hive and load data from your home folder in**

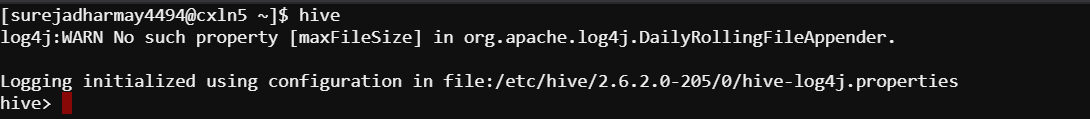
**The web console**

* Login to the web console using your CloudXLab Username & password .
* Copy NYSE data from HDFS to your local.

**hadoop fs -copyToLocal /data/NYSE\_daily**

****

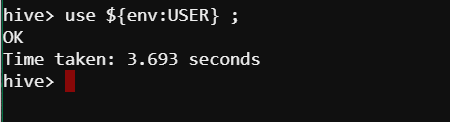
* Launch Hive with typing in hive on the console. Run the below command in Hive

****

* Use your database by using below command .

${enc:USER} gets replaced by your username automatically

**use ${env:USER} ;**



* Create table nyse using below command

**CREATE TABLE nyse(**

**exchange1 STRING,**

**symbol1 STRING,**

**ymd STRING,**

**price\_open FLOAT,**

**price\_high FLOAT,**

**price\_low FLOAT,**

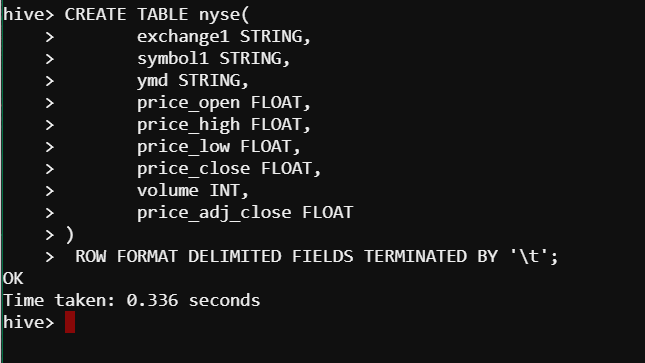
**price\_close FLOAT,**

**volume INT,**

**price\_adj\_close FLOAT**

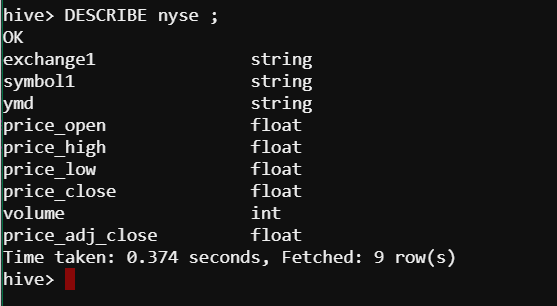
**)**

**ROW FORMAT DELIMITED FIELDS TERMINATED BY '\t';**



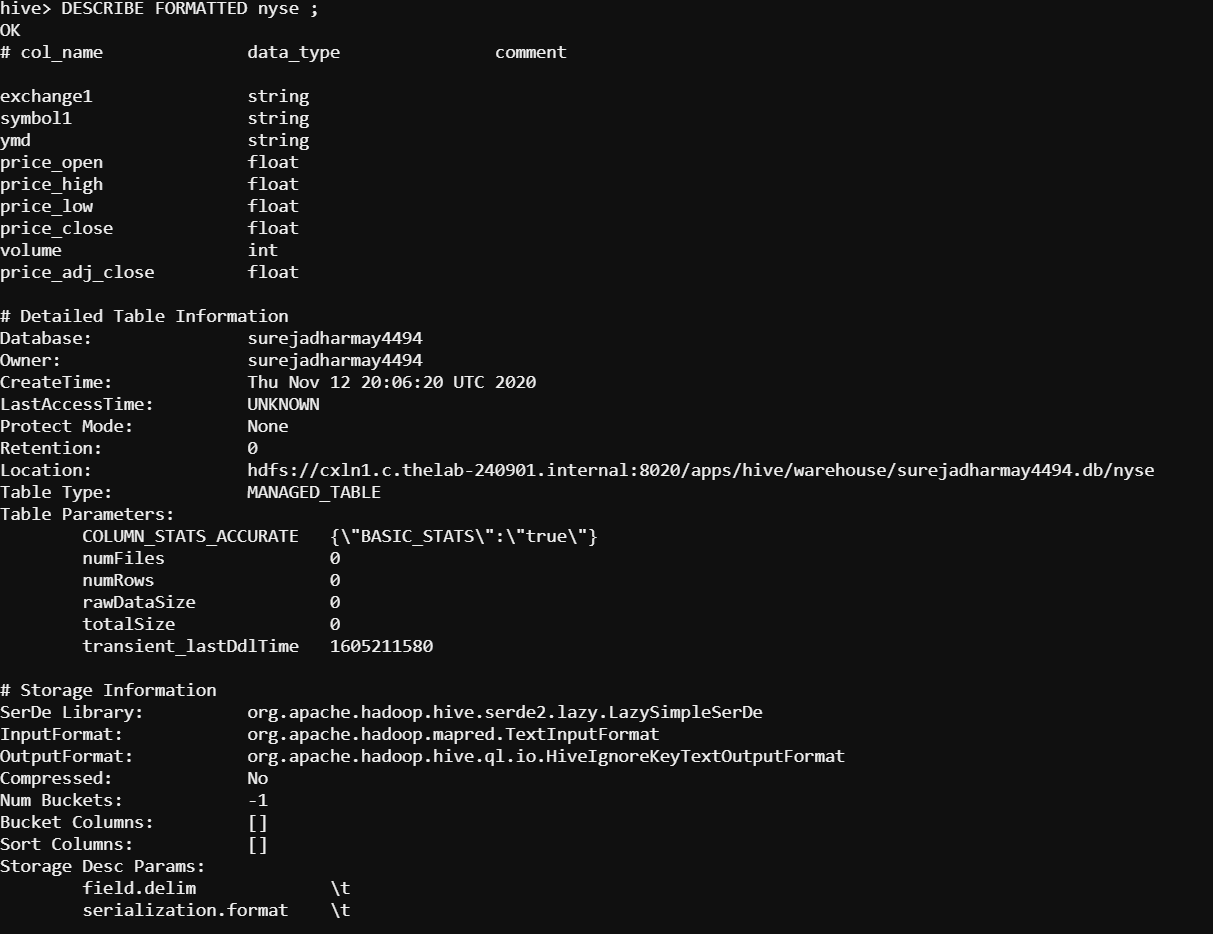
* See metadata of table using below command

**DESCRIBE nyse ;**



* To See more low-level details , type below command .

**DESCRIBE FORMATTED nyse ;**

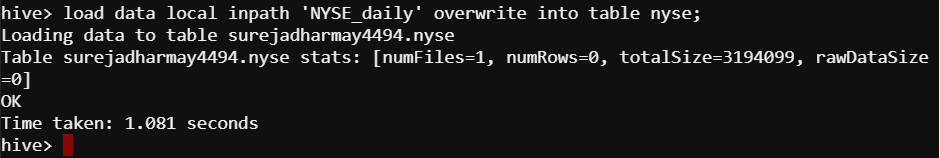
****



* Load data to your nyse table

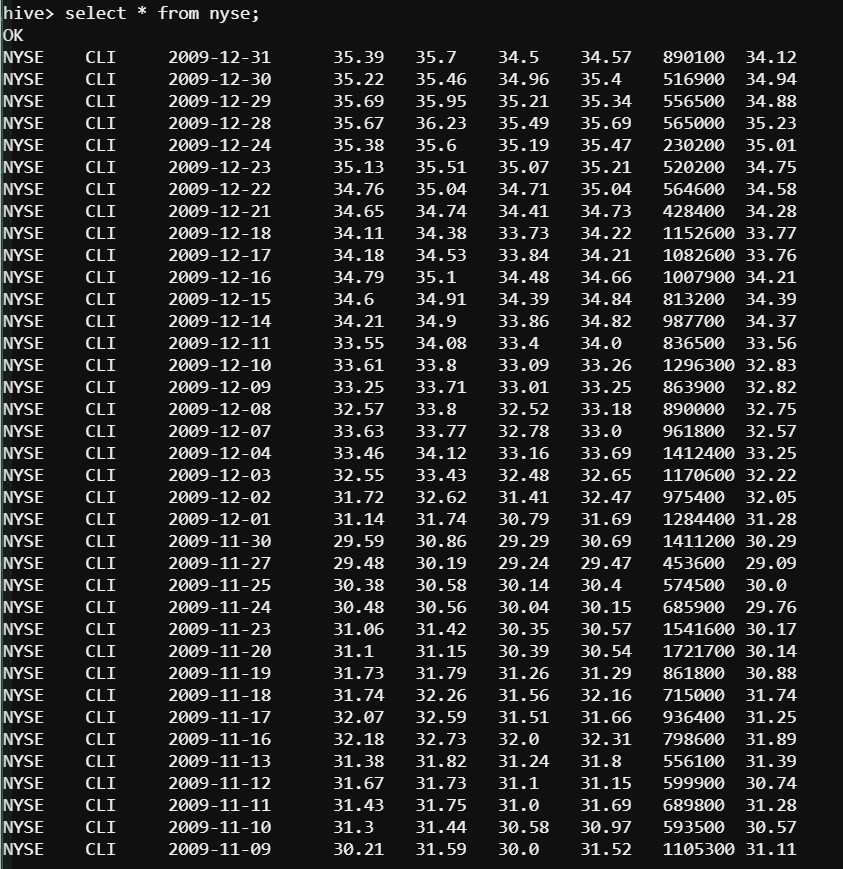
**use ${env:USER} ;**

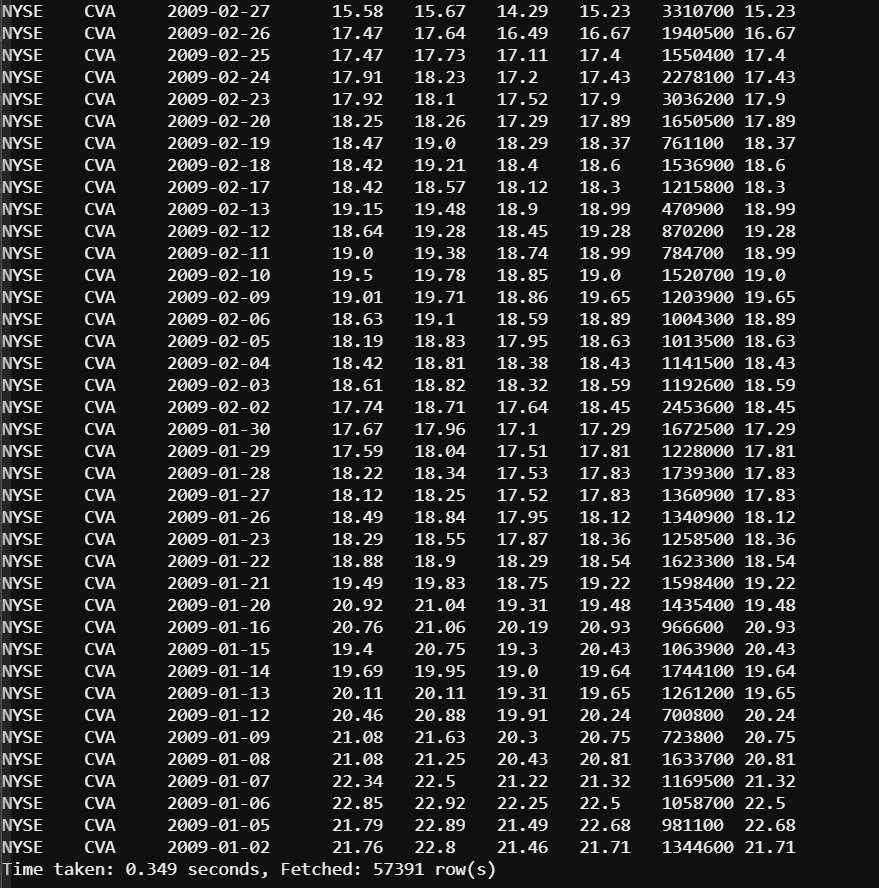
**load data local inpath ‘ NYSE\_daily ’ overwrite into table nyse ;**

****

* Select rows from the table ( in HIVE console ) .

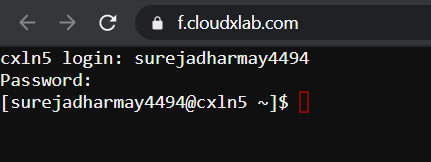
**select \* from nyse ;**





**Extra Practice :**

* Login to the web console using your CloudXLab Username & password .

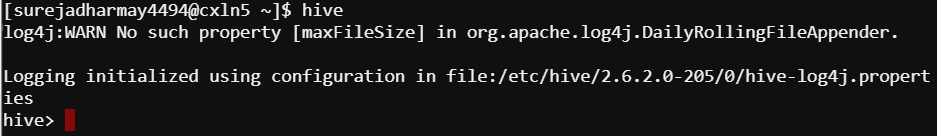


* Copy NYSE data from HDFS to your local.

**hadoop fs -cp /data/NYSE\_daily**

****

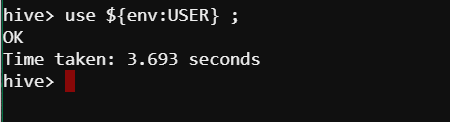
* Launch Hive with typing in hive on console .

****

* Use your own database by using below command .

${enc:USER} gets replaced by your username automatically

**use ${env:USER} ;**



* Create table nyse using below command

**CREATE TABLE nyse\_external(**

**exchange1 STRING,**

**symbol1 STRING,**

**ymd STRING,**

**price\_open FLOAT,**

**price\_high FLOAT,**

**price\_low FLOAT,**

**price\_close FLOAT,**

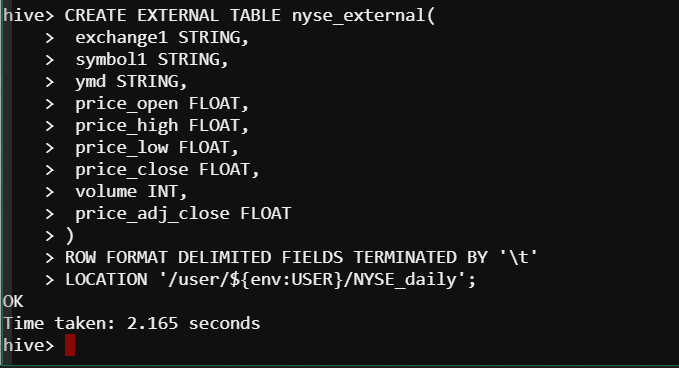
**volume INT,**

**price\_adj\_close FLOAT**

**)**

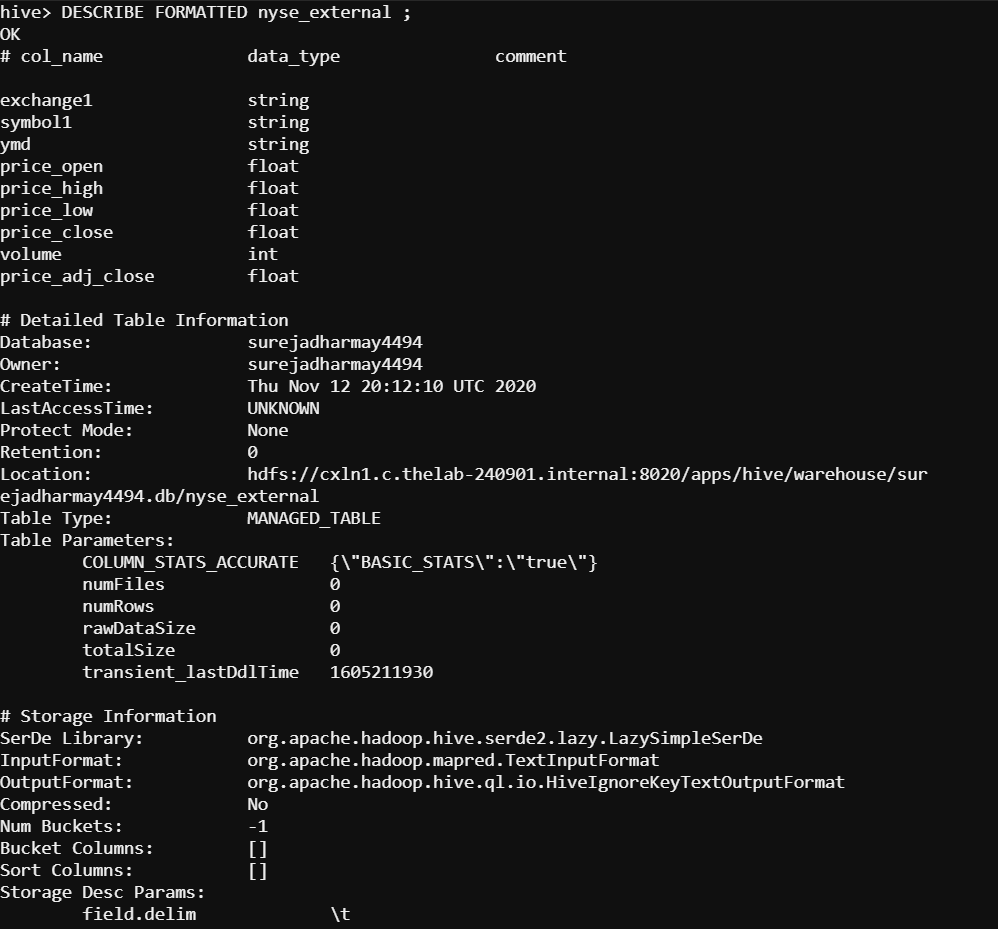
**ROW FORMAT DELIMITED FIELDS TERMINATED BY '\t';**

**LOCATION ‘/user/${env:USER}/NYSE\_daily’ ;**



* To See more low-level details , type below command .

**DESCRIBE FORMATTED nyse\_external ;**

****

* Check the warehouse directory in HDFS by typing below command in unix console

( press ctrl+c to exit hive console ) .

**hadoop fs -ls NYSE\_daily ;**

****

* To drop the external table type in unix console

**DROP TABLE nyse\_external ;**

