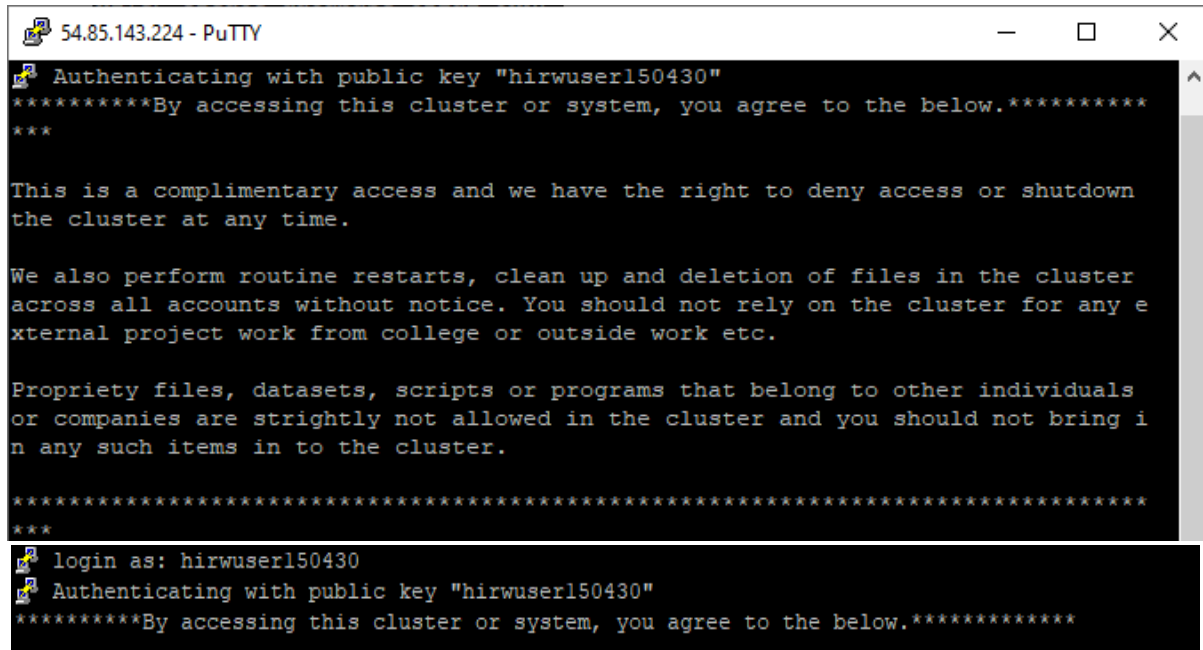


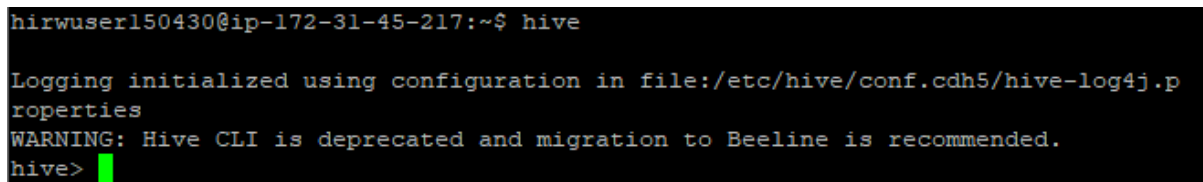
# Big Data Tools: Hive Practice HQL

## 1. Login: hirwuser150430



```
54.85.143.224 - PuTTY
Authenticating with public key "hirwuser150430"
*****By accessing this cluster or system, you agree to the below.*****
***
This is a complimentary access and we have the right to deny access or shutdown
the cluster at any time.
We also perform routine restarts, clean up and deletion of files in the cluster
across all accounts without notice. You should not rely on the cluster for any e
xternal project work from college or outside work etc.
Propriety files, datasets, scripts or programs that belong to other individuals
or companies are strightly not allowed in the cluster and you should not bring i
n any such items in to the cluster.
*****
***
login as: hirwuser150430
Authenticating with public key "hirwuser150430"
*****By accessing this cluster or system, you agree to the below.*****
```

## 2. Enter into hive shell



```
hirwuser150430@ip-172-31-45-217:~$ hive
Logging initialized using configuration in file:/etc/hive/conf.cdh5/hive-log4j.p
roperties
WARNING: Hive CLI is deprecated and migration to Beeline is recommended.
hive>
```

### 3. Display existing databases

```
WARNING: Hive CLI is deprecated and migration to Beeline is recommended.
hive> show databases;
OK
abhi
ansh
aparna
ayushi
bends
default
demo_hive
devansh
devansh_demo
hirwuser2074
hirwuser2093
kickstarter
mitali
parth
sagar
sagar_78019
stockmarket
stocks_db
stocks_db1
stocks_db2
stocks_db3
stocks_db_vbt
stocks_db_vr
student_zeel
trial_123
trial_jhr
trial_vbt
user2055
user_cluster
Time taken: 0.682 seconds, Fetched: 29 row(s)
hive>
```

### 4. Create a database

```
hive> create database trial_pk;
OK
Time taken: 0.664 seconds
hive>
```

### 5. use that database

```
hive> use trial_pk;
OK
Time taken: 0.016 seconds
hive>
```

## 6. Create a table stocks\_db

```
hive> CREATE EXTERNAL TABLE IF NOT EXISTS stocks_db (exchng STRING, SYMBOL STRING, YMD STRING, PRICE_
OPN FLOAT, PRICE_HIGH FLOAT, PRICE_LOW FLOAT, PRICE_CLOSE FLOAT, VOLUME INT, OTHER_PRICE FLOAT) ROW FO
RMAT DELIMITED FIELDS TERMINATED BY ',' LOCATION '/user/hirw/input/stocks';
OK
Time taken: 0.029 seconds
hive>
```

## 7. Display existing tables in that database

```
hive> show tables;
OK
stocks_db
Time taken: 0.092 seconds, Fetched: 1 row(s)
hive>
```

## 8. Display records of that table (up to 100 records)

```
hive> SELECT * FROM STOCKS_DB LIMIT 10;
OK
ABCSE  B7J      2010-02-08      8.63    8.7      8.57    8.64    78900    8.64
ABCSE  B7J      2010-02-05      8.63    8.71    8.31    8.58    218700   8.58
ABCSE  B7J      2010-02-04      8.88    8.88    8.59    8.66    89900    8.66
ABCSE  B7J      2010-02-03      8.83    8.92    8.8     8.89    119000   8.89
ABCSE  B7J      2010-02-02      8.77    8.9     8.73    8.87    51900    8.87
ABCSE  B7J      2010-02-01      8.69    8.77    8.66    8.75    38600    8.75
ABCSE  B7J      2010-01-29      8.81    8.81    8.56    8.57    91700    8.57
ABCSE  B7J      2010-01-28      8.9     8.9     8.6     8.69    92100    8.69
ABCSE  B7J      2010-01-27      8.87    8.87    8.68    8.79    82400    8.79
ABCSE  B7J      2010-01-26      8.83    8.92    8.71    8.82    106000   8.82
Time taken: 0.28 seconds, Fetched: 10 row(s)
hive>
```

## 9. Describe the structure of that table

```
hive> DESC STOCKS_DB;
OK
exchng      string
symbol      string
ymd         string
price_opn   float
price_high  float
price_low   float
price_close float
volume      int
other_price float
Time taken: 0.028 seconds, Fetched: 9 row(s)
hive>
```