Hive 1 Commands---DDL, Create,datatypes (SQL), string,int,varchar,date

open terminal and type hive

>hive

1. To display the existing databases:

show databases;

2. To create a new database: (Database name is "demo")

create database demo; create database student_163;

3. To select a required database: (Selected database is "demo")

use demo;

4. To create a table in the selected database: (Table name is "student")

create table student(name string,rollno string,age int)row format delimited fields terminated by ',';

5. To insert data into table "student" from a file "Student1" that is stored in local file system:

load data local inpath '/home/training/Desktop/Student1' into table student;

select * from student;

converted to mapreduce jobs

6. To insert some more data into table "student" from a file "Student2" that is stored in local file system:

load data local inpath '/home/training/Desktop/Student2' into table student;

7. To insert some more data into table "student" from a file "Student3" that is stored in local file system: (Student 3 has some field types different from what the schema is defined)

load data local inpath '/home/training/Desktop/Student3' into table student;

8. To display metadata about the table:

describe student;

9. To display detailed metadata about the table:

describe extended student;

10. To insert data into table "student" from a file "Student4" that is stored in hdfs:

First load the data from local file sytem into hdfs. This can be done using the following command:

$ cd desktop

$ hadoop dfs -put stu4 /student4.txt

Then load the data from hdfs into hive table:

load data inpath '/student4.txt' into table student;

Note: once loaded the file "Student4" will be moved from its path into given hive table "student"

11. To display the contents of table "student":

```
select count(*) from student;
```

12. To display the name "Akash" in uppercase:

```
select upper(name)
from student
where name='Akash';
```

13. To create external table "studextern" in the path "/hivedata":

```
create external table studextern(
name string,
rollno string,
age int
)row format delimited
fields terminated by ','
location '/hivedata';
```

14. To insert data into external table "studextern":

hadoop dfs -put Student1 /hivedata

Note: Just load the file into "/hivedata". All the contents of the file will be inserted into the table "studextern"

15. To display the contents of table "studextern"

```
select * from studextern;
```

Note: Internal table will be in "/user/hive/warehouse"

Note: External table will be in the path where the data is stored.

16. To remove internal table "student":

```
drop table student;
```

17. To remove external table "studextern"

```
drop table studextern;
```

18. To remove database

```
drop database demo;
```

Note: When external table is dropped its schema is dropped but data still exists. Can be checked in browser.

Note: When internal table is dropped its schema and also data is deleted.