**BIG DATA LAB-08**

**5) Extract facts using Hive :**

1)Create and Drop Databases

2)Create, Alter , Drop Table

3)Built-in Operators

4)Built-in function

5)Views and Index

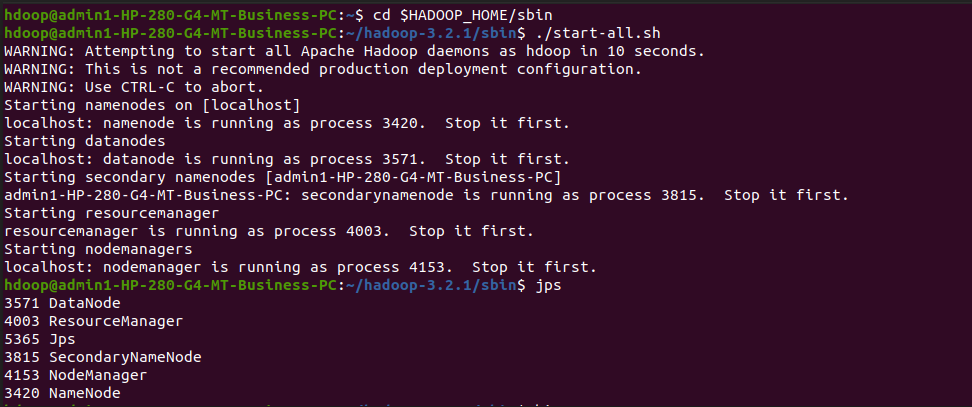
6)HIVEQL(select where , Select Order by, Select group by , Select Joins )

**>Performing basic Hadoop commands**

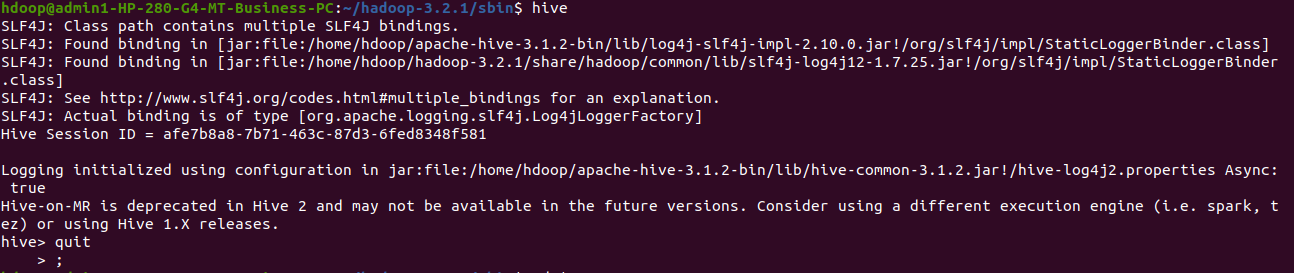
cd $HADOOP\_HOME/sbin

./start-all.sh

jps



**>Performing basic hive commands**

****

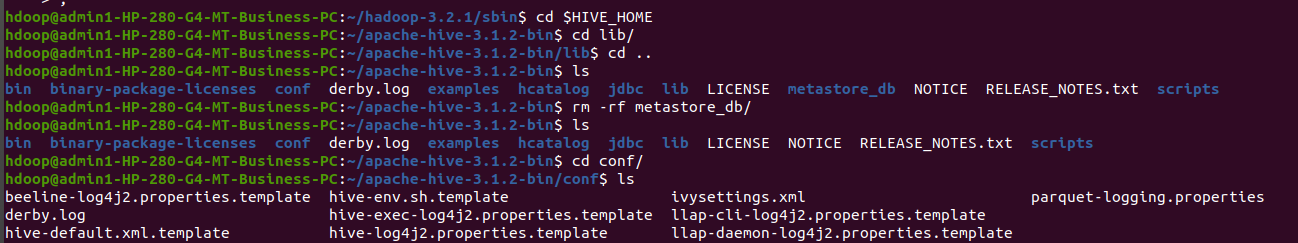
cd $HIVE\_HOME

cd lib/

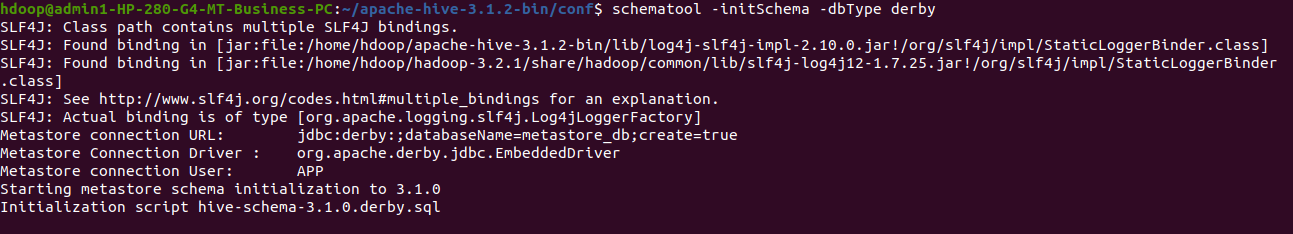
ls

rm –rf metastore\_db/ //to remove metastore data

ls

****

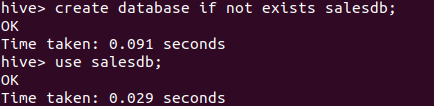
Schematool –initSchema –dbType derby

****

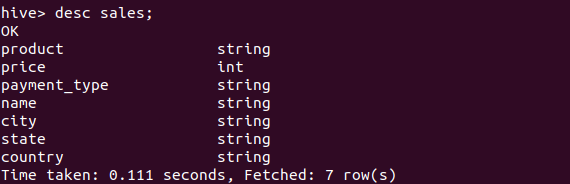
hive

****

**>Creating a databases**

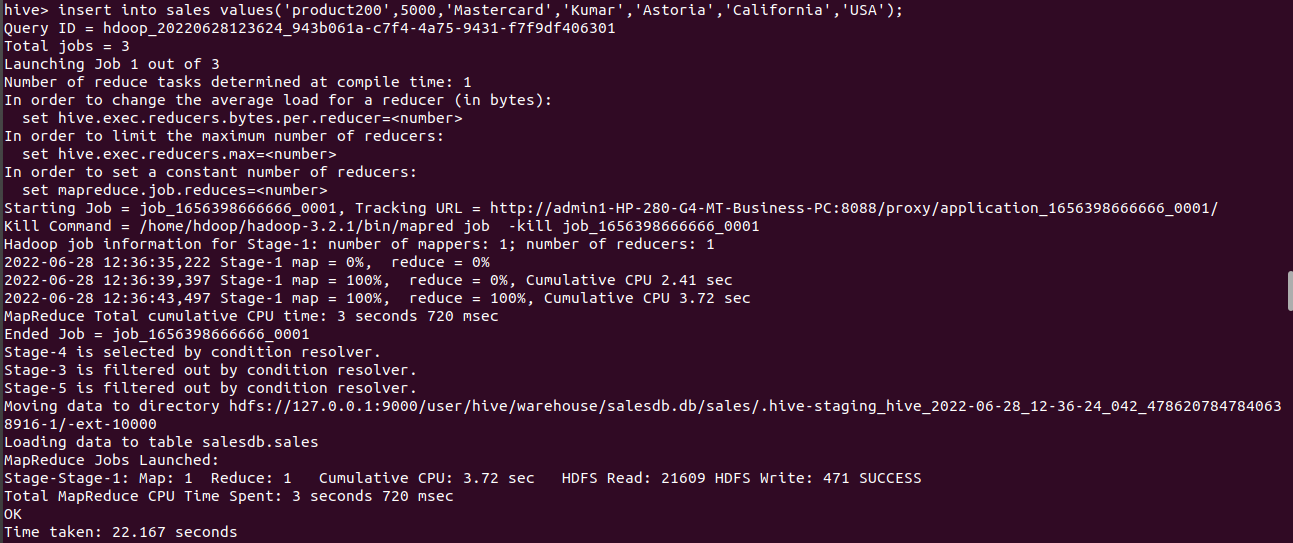
****

**>Creating a tables and displaying it**

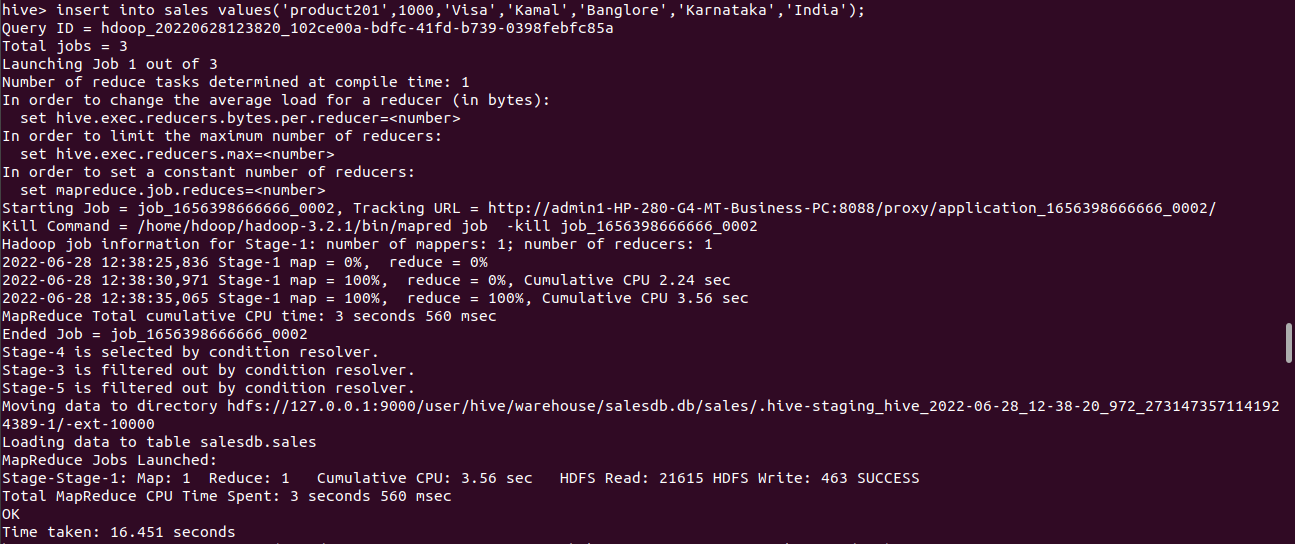
****

**>Inserting values into to the table**

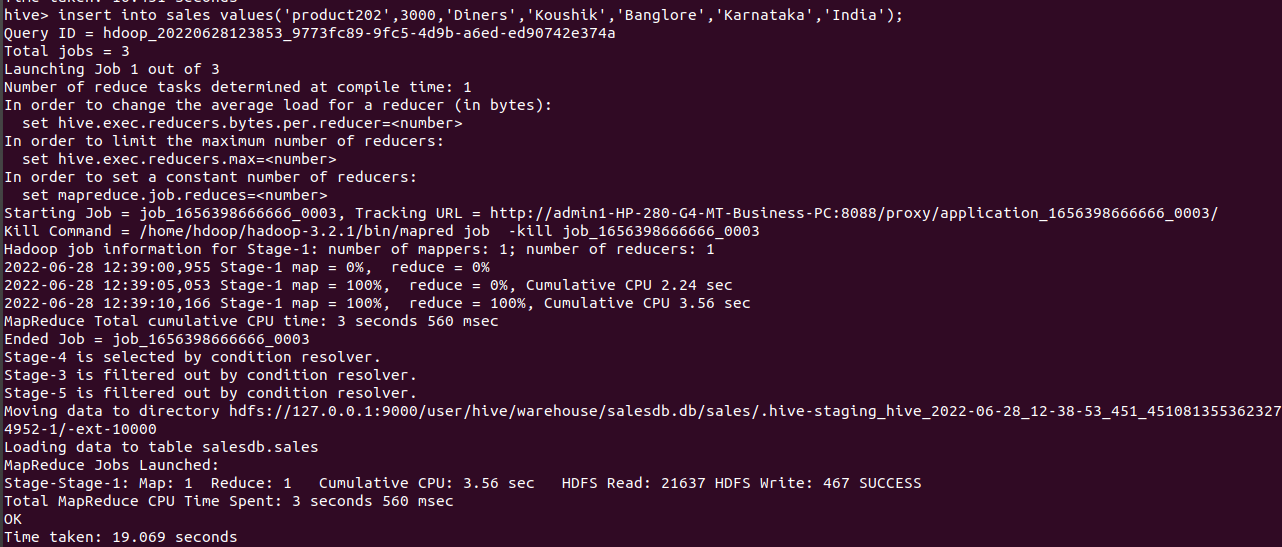
insert into sales values('product200',5000,'Mastercard','Kumar','Astoria','California','USA');

****

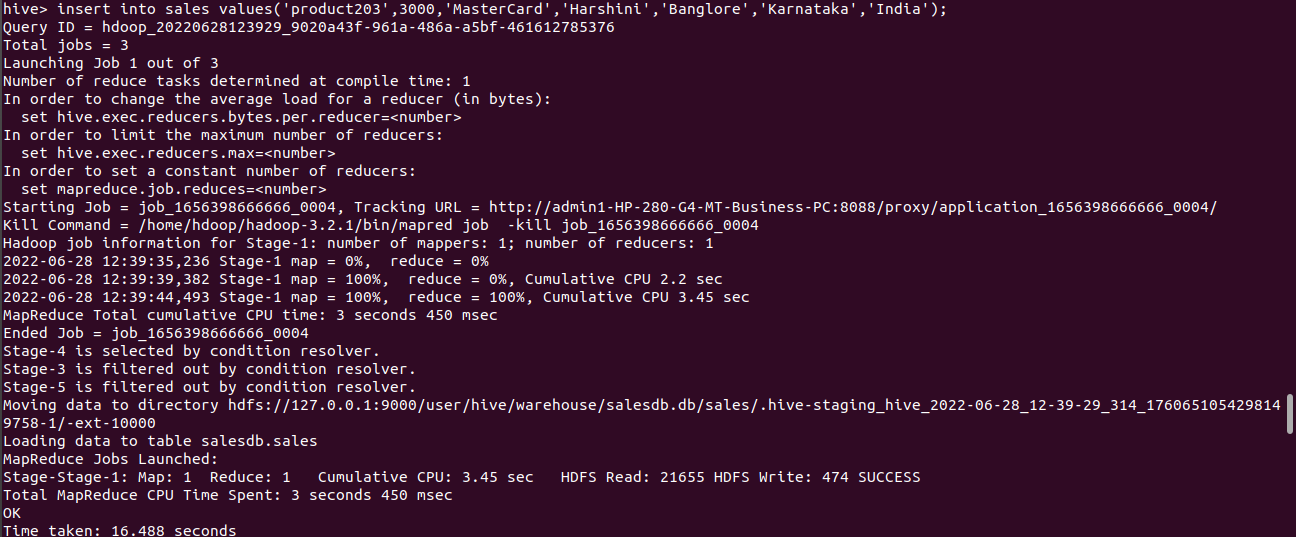
insert into sales values('product201',1000,'Visa','Kamal','Banglore','Karnataka','India');

****

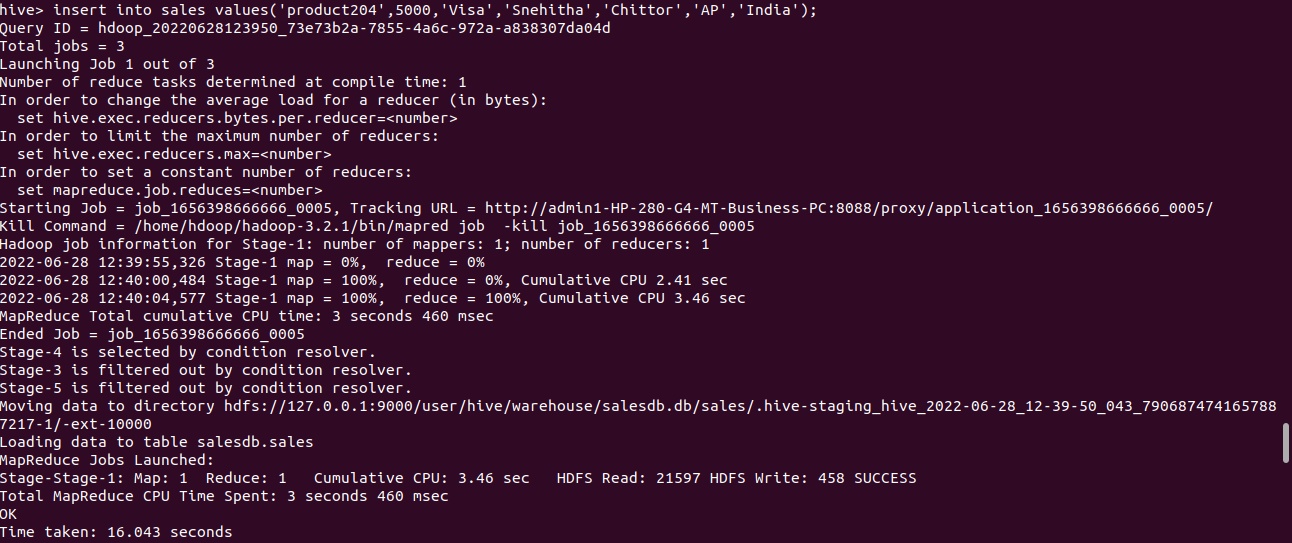
insert into sales values('product202',3000,'Diners','Koushik','Banglore','Karnataka','India');

****

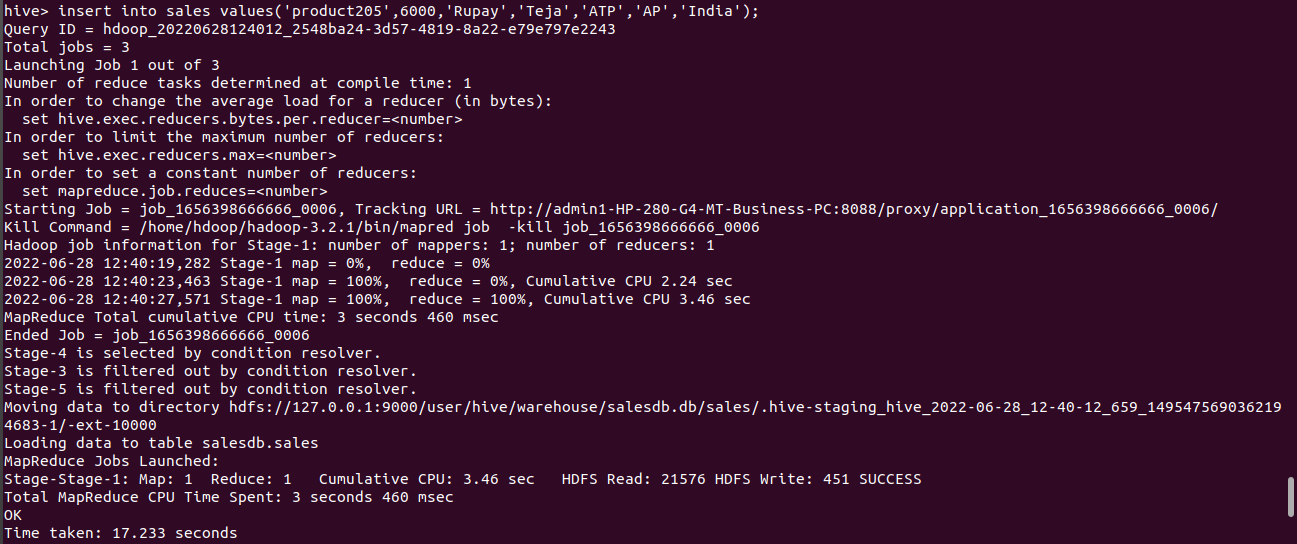
insert into sales values('product203',3000,'MasterCard','Harshini','Banglore','Karnataka','India');

****

insert into sales values('product204',5000,'Visa','Snehitha','Chittor','AP','India');

****

insert into sales values('product205',6000,'Rupay','Teja','ATP','AP','India');

****

**Displaying all the inserted values**

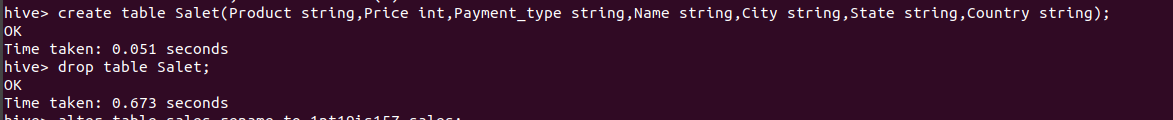
select \* from sales;

****

**Creating a new table and droping it**

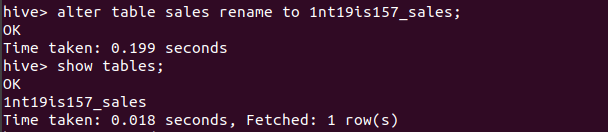
create table Salet(Product string,Price int,Payment\_type string,Name string,City string,State string,Country string)

drop table Salet;

****

**Altering table**

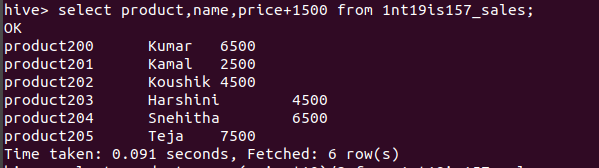
alter table sales rename to 1nt19is157\_sales;

****

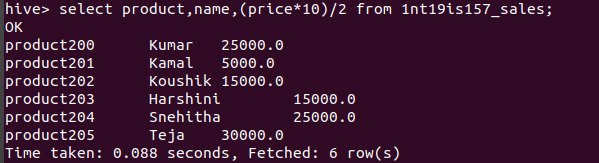
**>BUILD IN OPERATOR**

**Arthematic operator in hive**

select product,name,price+1500 from 1nt19is157\_sales;

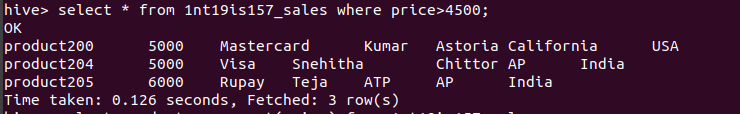
****

select product,name,(price\*10)/2 from 1nt19is157\_sales;

****

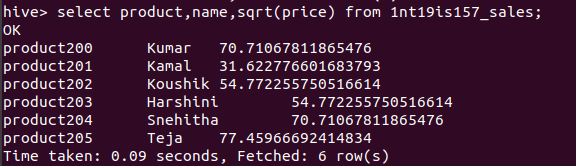
**Relational operator in hive**

select \* from 1nt19is157\_sales where price>4500;

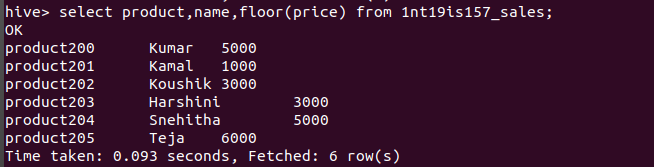
****

**>BUILT IN FUNCTION**

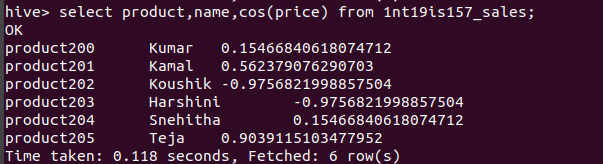
**Mathematical function in hive**

select product,name,sqrt(price) from 1nt19is157\_sales;****

select product,name,floor(price) from 1nt19is157\_sales;

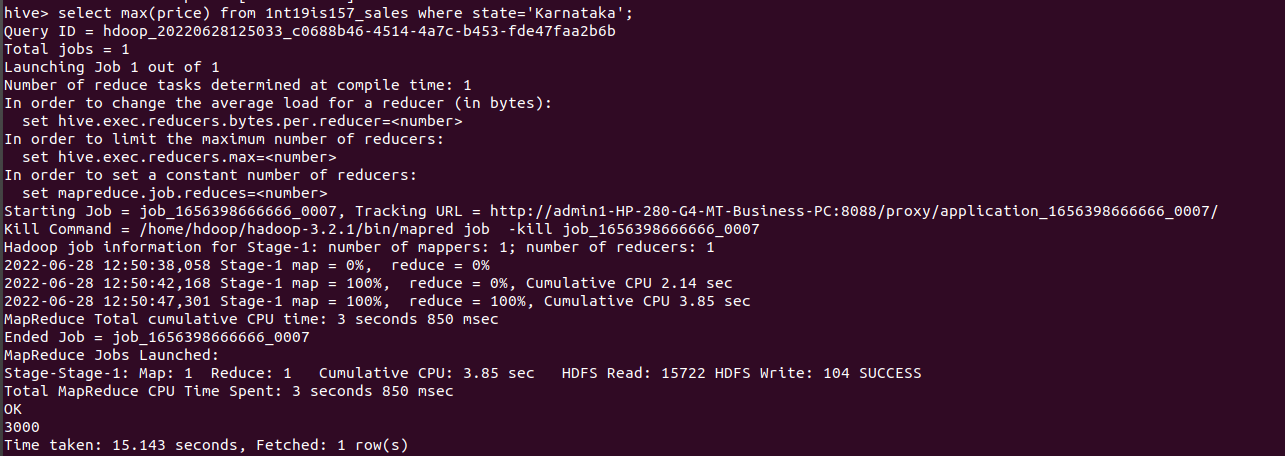
****

select product,name,cos(price) from 1nt19is157\_sales;

****

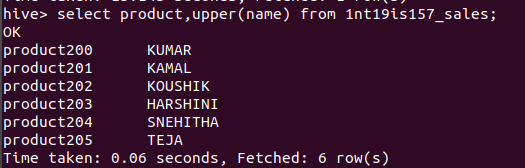
**Aggreagate Function in hive**

select max(price) from 1nt19is157\_sales where state='Karnataka';

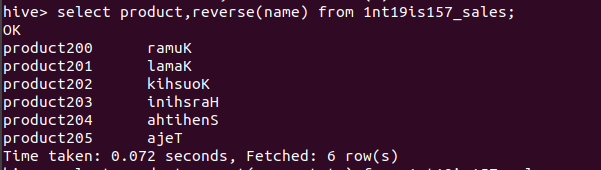
****

**Other built in function**

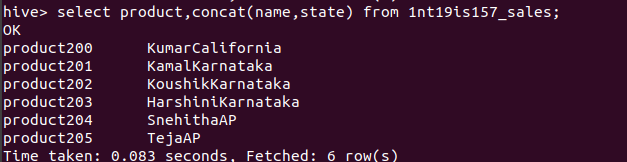
select product, upper(name) from 1nt19is157\_sales;

****

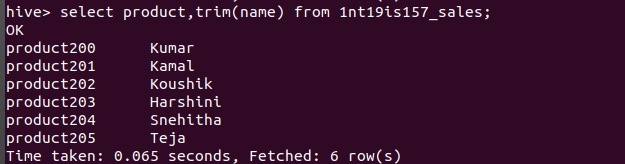
select product, reverse(name) from 1nt19is157\_sales;

****

select product, concat(name,state) from 1nt19is157\_sales;

****

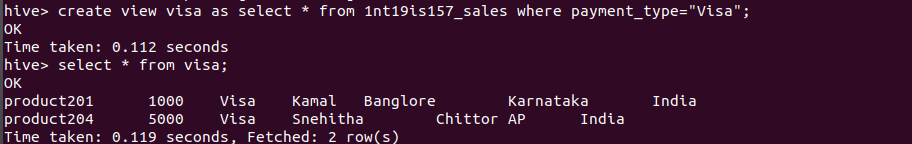
select product, trim(name) from 1nt19is157\_sales;

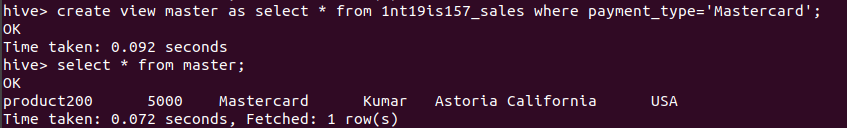
****

**>VIEWS**

create view visa as select \* from 1nt19is157\_sales where payment\_type="Visa";

select \* from visa;

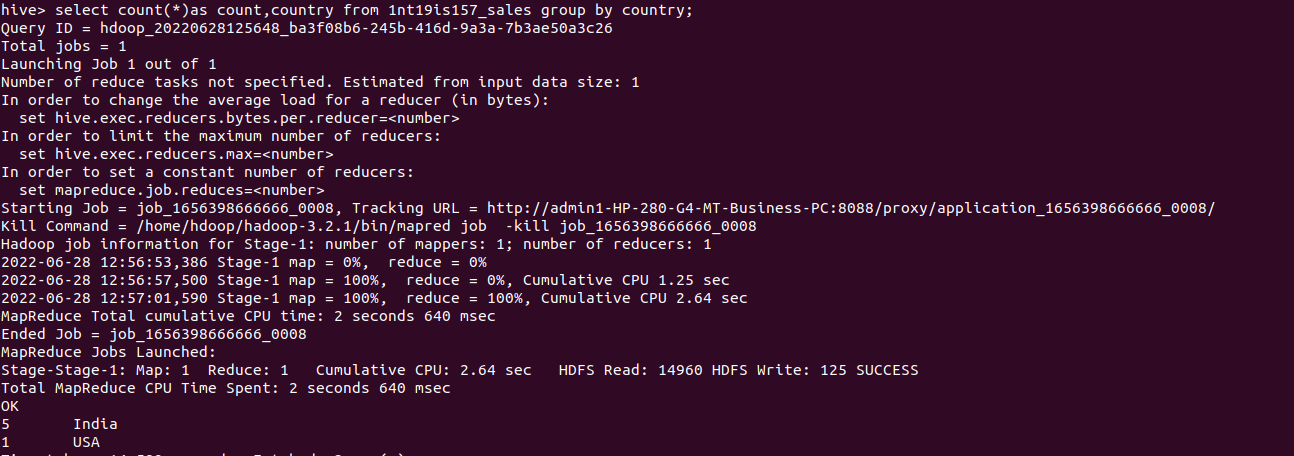
****

****

**>HIVEQL**

**Group by**

select count(\*)as count,country from 1nt19is157\_sales group by country;

****

**Where**

Select \* from sales where state=’karnataka’;



**Order by**

Select \* from sales order by price;

