Lab Exercise 06: Analysis the Supermarket Sales data using Hive Query Language

This exercise try to Analysis the Supermarket Sales data using Hive Query Language.

Step 01: Display Available Database

>show databases;

```
Logging initialized using configuration in file:/etc/hive/conf.dist/hive-log4j.properties wANDSING: Hive CLI is deprecated and migration to Beeline is recommended.

See Show databases.

Gefault
Time taken: 8.582 seconds, Fetched: 1 row(s)
```

Step 02: Create Database as "SuperMarket"

>create database SuperMarket;



Step 03: Use "SuperMarket" Database

>use SuperMarket;



Step 04: Display available Tables

>describe Sales;



Step 05: Create Table "Sales" with following scheme

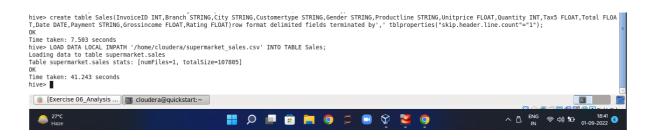
>create table Sales(InvoiceID STRING,Branch STRING,City STRING,Customertype STRING,GENDER STRING,Productline STRING,UnitPrice FLOAT,Quantity INT,Tax5 FLOAT,Total FLOAT,Date DATE,Payment STRING,Grossincome FLOAT,Rating FLOAT)row format delimited fields terminated by',' tblproperties("skip.header.line.count"="1");

hive> create table Sales(InvoiceID STRING,Branch STRING,City STRING,Customertype STRING,Gender STRING,Productline STRING,Unitprice FLOAT,Quantity INT,Tax5 FLOAT,Total F	
LOAT,Date DATE,Payment STRING,Grossincome FLOAT,Rating FLOAT)row format delimited fields terminated by',' tblproperties("skip.header.line.count"="1");	
OK	
Time taken: 1.958 seconds	

Step 06: Copy 'supermarket_sales.csv' into Hadoop local (/home/cloudera/)

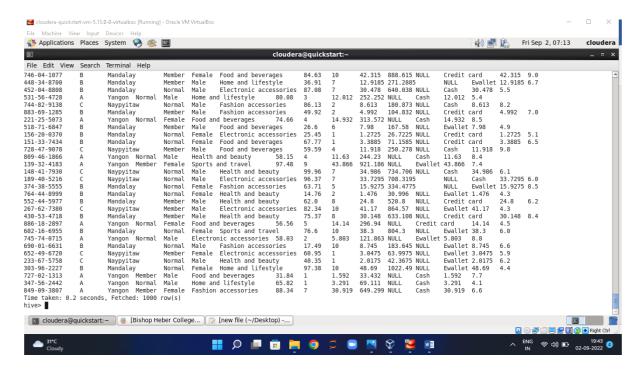
>LOAD DATA LOCAL INPATH

'/home/cloudera/supermarket_sales.csv' INTO TABLE Sales;



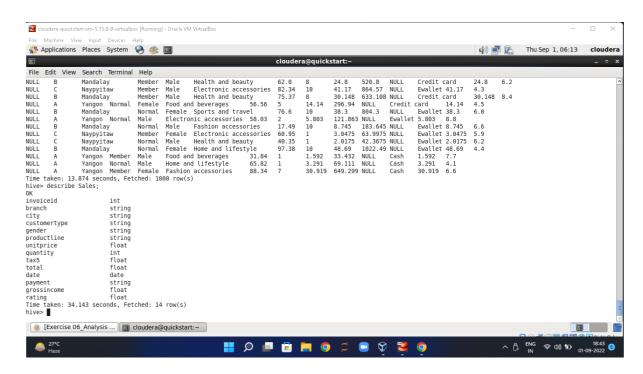
Step 07: Load 'supermarket_sales.csv' data into table 'Sales'

>select * from Sales;



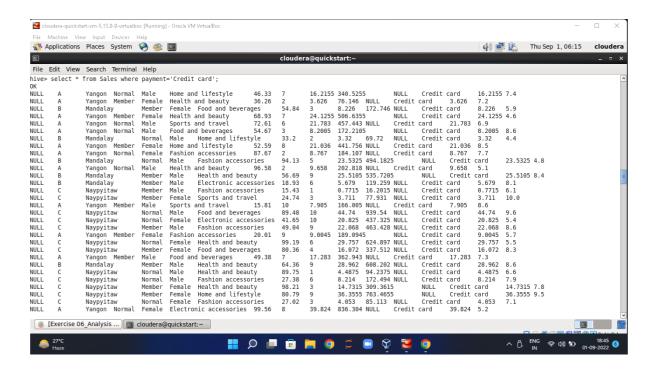
Step 08: Display the content in table 'Sales'

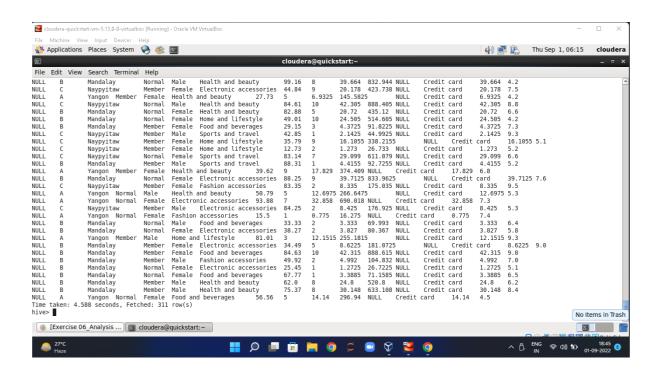
>Describe Sales;



Q01: Display records who paid money through credit card?

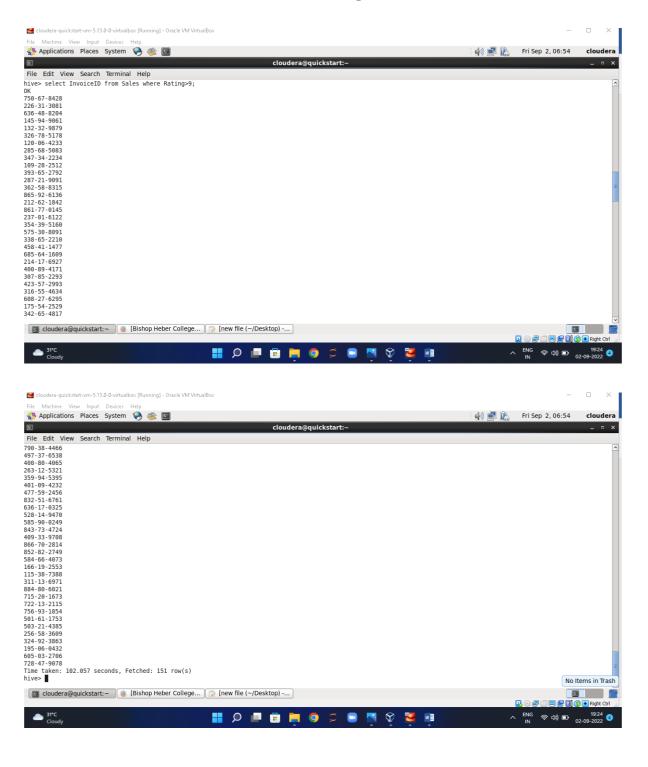
>select * from Sales where Payment='Credit card";





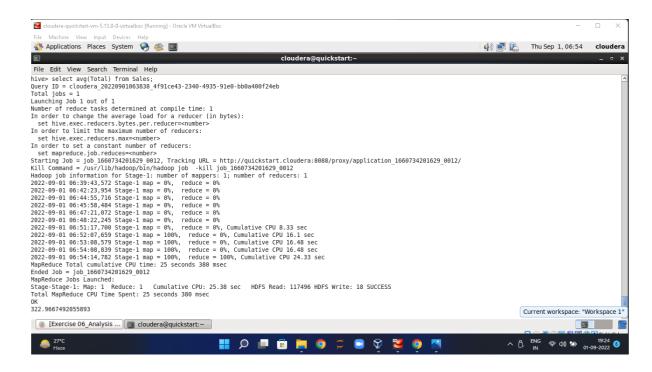
Q02: Show all Invoice ID which table entry in has more than 9 rating.

>select InvoiceID from Sales where Rating>9;



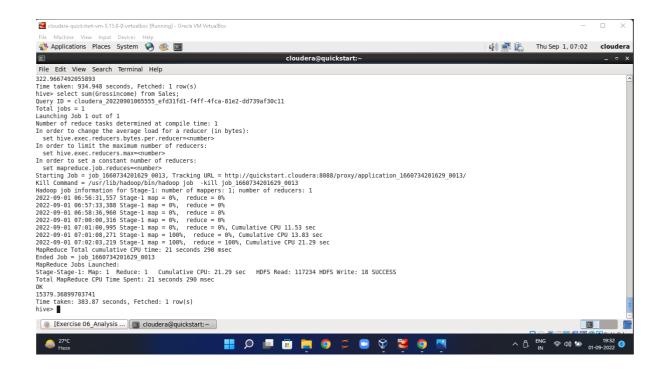
Q03: Find Average sale amount in the data set.

>select avg(Total) from Sales;



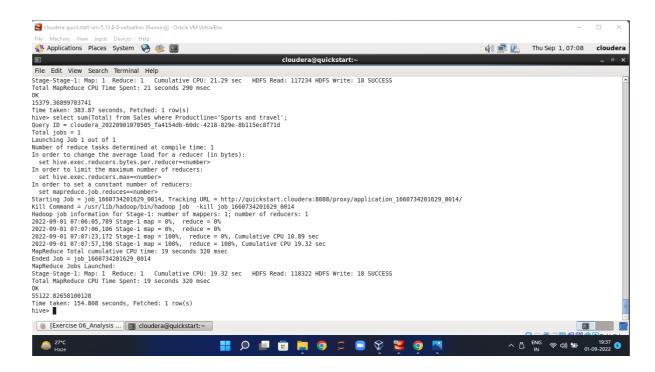
Q04: Calculate total gross income in the data set.

>select sum(Grossincome) from Sales;



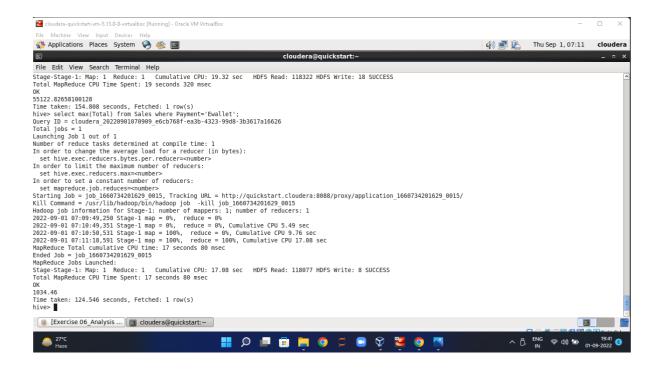
Q05: Find total sale amount under 'Sports and travel' product line.

>select sum(Total) from Sales where Productline="Sports and travel";



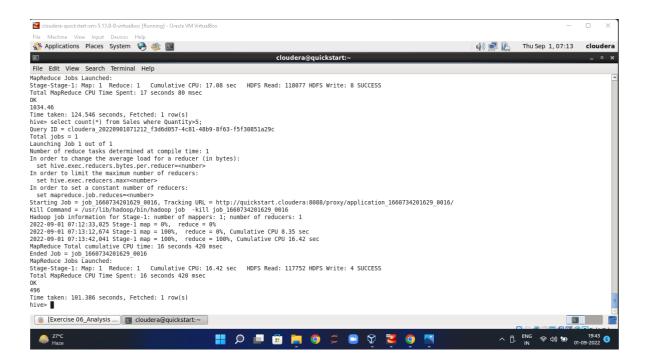
Q06: Find maximum sales amount in which payment in 'Ewallet' payment

>select max(Total) from Sales where Payment="EWallet";



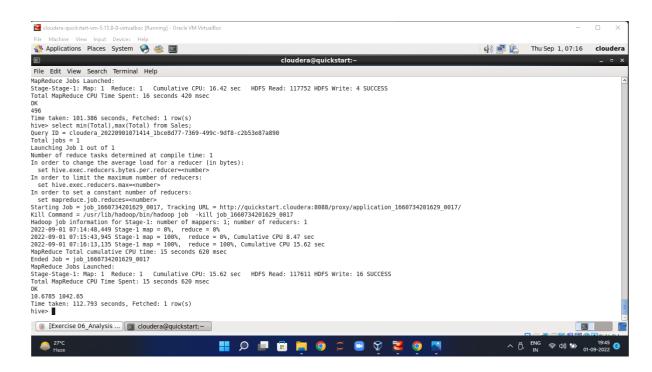
Q07: Count number of sales which is has >5 quantity.

>select count(*) from Sales where Quantity>5;



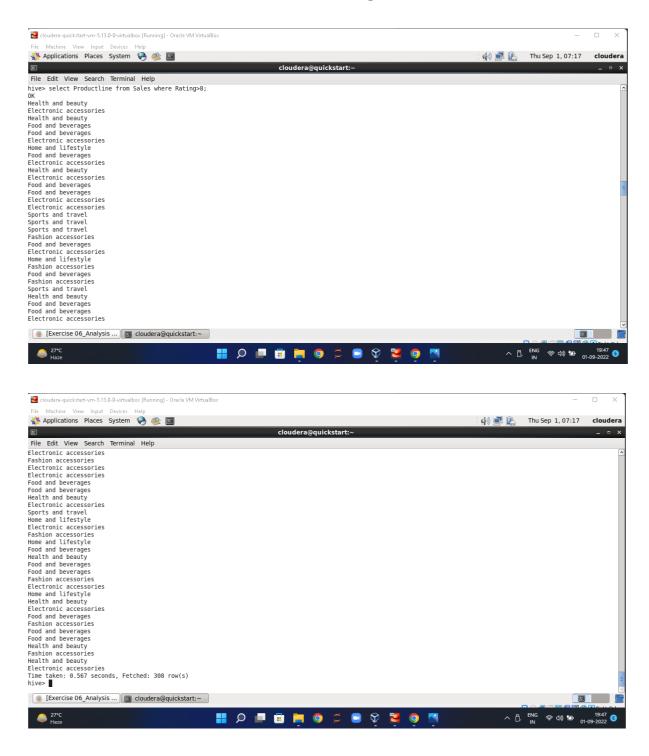
Q08: Find minimum and maximum sale total amount

>select min(Total),max(Total) from Sales;



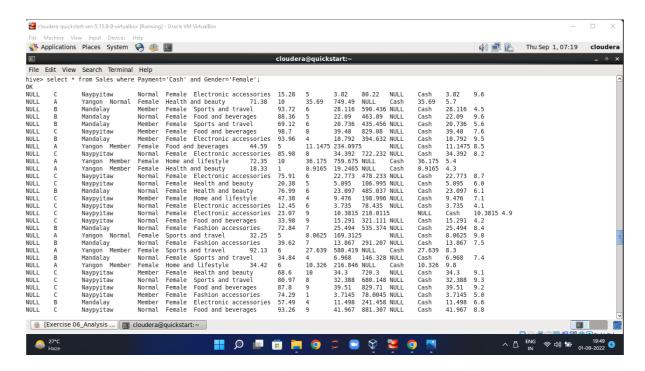
Q09: List the product line which has more than 8 rating

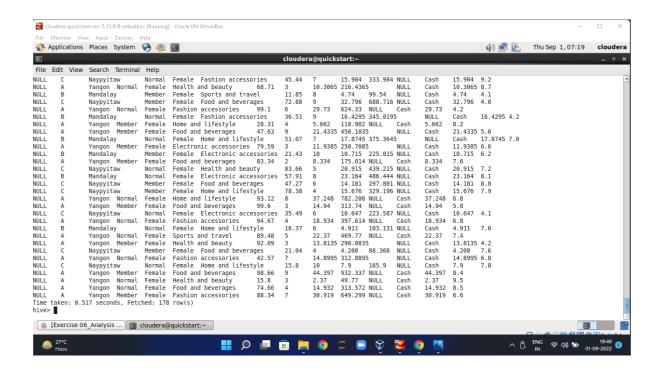
>select Productline from Sales where Rating>8;



Q10: Display the records who has paid through cash and female customer.

>select * from Sales where Payment="Cash" and Gender="Female";





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