**MySql Assignment Practice**

mysql> create table Customer(customer\_Id int(10) primary key,DOB date,Gender char(1),city\_code int(10));

mysql> create table prod\_cat\_info(prod\_cat\_code int(10) ,prod\_cat varchar(30),prod\_sub\_cat\_code int(10),prod\_subcat varchar(50));

mysql> create table Transactions(transaction\_id int(20) ,cust\_id int(10),tran\_date date,prod\_subcat\_code int(10),prod\_cat\_code int(10),Qty int(10),Rate int(10),Tax double(20,8),total\_amt double(20,8),Store\_type varchar(10));

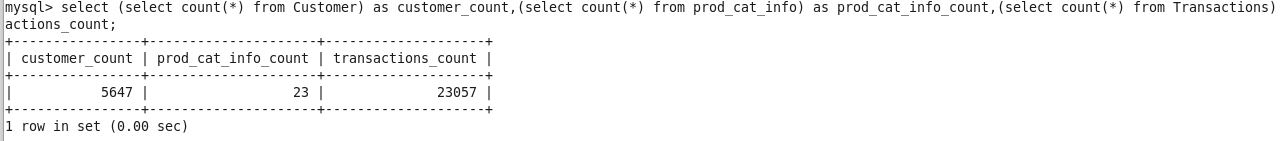
mysql> LOAD DATA LOCAL INFILE "/home/cloudera/Jyoti/MySqlAssignment/Customer.csv" INTO TABLE Customer FIELDS TERMINATED BY ',' LINES TERMINATED BY '\n' IGNORE 1 LINES (customer\_Id, @datevar, Gender,city\_code) set DOB = STR\_TO\_DATE(@datevar,'%Y-%m-%d');

mysql> LOAD DATA LOCAL INFILE "/home/cloudera/Jyoti/MySqlAssignment/prod\_cat\_info.csv" INTO TABLE prod\_cat\_info FIELDS TERMINATED BY ',' LINES TERMINATED BY '\n' IGNORE 1 LINES (prod\_cat\_code,prod\_cat,prod\_sub\_cat\_code,prod\_subcat);

mysql> LOAD DATA LOCAL INFILE "/home/cloudera/Jyoti/MySqlAssignment/Transactions.csv" INTO TABLE Transactions FIELDS TERMINATED BY ',' LINES TERMINATED BY '\n' IGNORE 1 LINES (transaction\_id,cust\_id,@datevar, prod\_subcat\_code,prod\_cat\_code,Qty,Rate,Tax,total\_amt,Store\_type) set tran\_date = STR\_TO\_DATE(@datevar,'%Y-%m-%d');

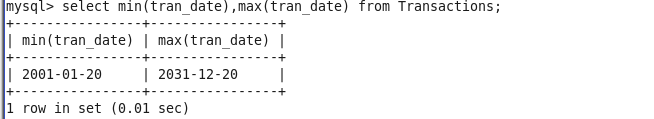
1.

mysql> select (select count(\*) from Customer) as customer\_count,(select count(\*) from prod\_cat\_info) as prod\_cat\_info\_count,(select count(\*) from Transactions) as transactions\_count;



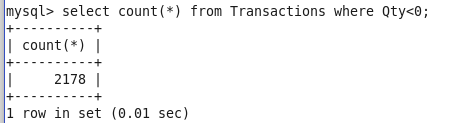
2.

mysql> select min(tran\_date),max(tran\_date) from Transactions;



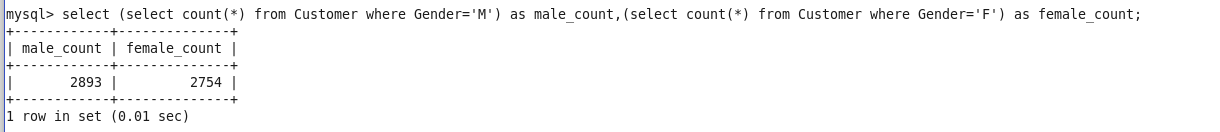
3.

mysql> select count(\*) from Transactions where Qty<0;



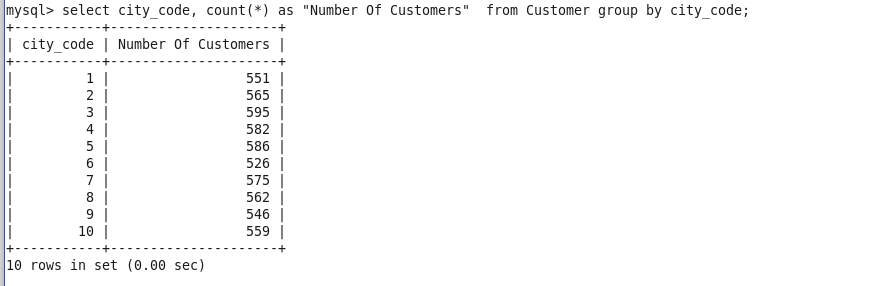
4.

mysql> select (select count(\*) from Customer where Gender='M') as male\_count,(select count(\*) from Customer where Gender='F') as female\_count;



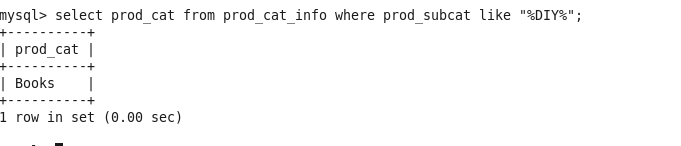
5.

mysql> select city\_code, count(\*) as "Number Of Customers" from Customer group by city\_code;



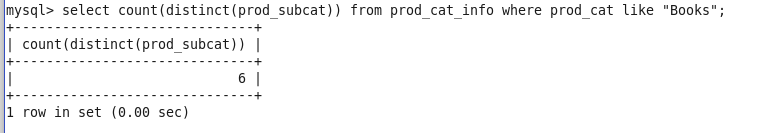
6.

mysql> select prod\_cat from prod\_cat\_info where prod\_subcat like "%DIY%";



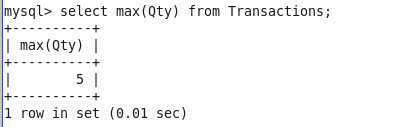
7.

mysql> select count(distinct(prod\_subcat)) from prod\_cat\_info where prod\_cat like "Books";



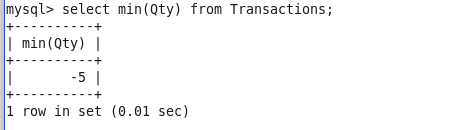
8.

mysql> select max(Qty) from Transactions;



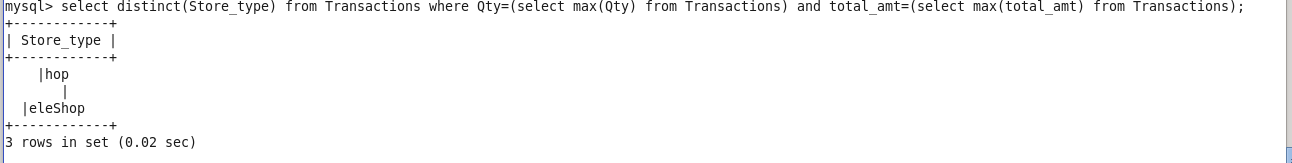
9.

mysql> select min(Qty) from Transactions;



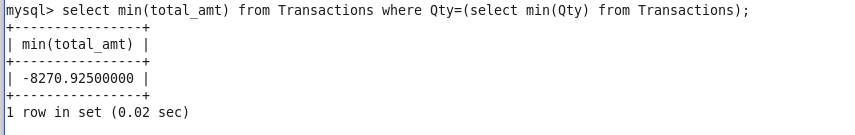
10.

mysql> select distinct(Store\_type) from Transactions where Qty=(select max(Qty) from Transactions) and total\_amt=(select max(total\_amt) from Transactions);



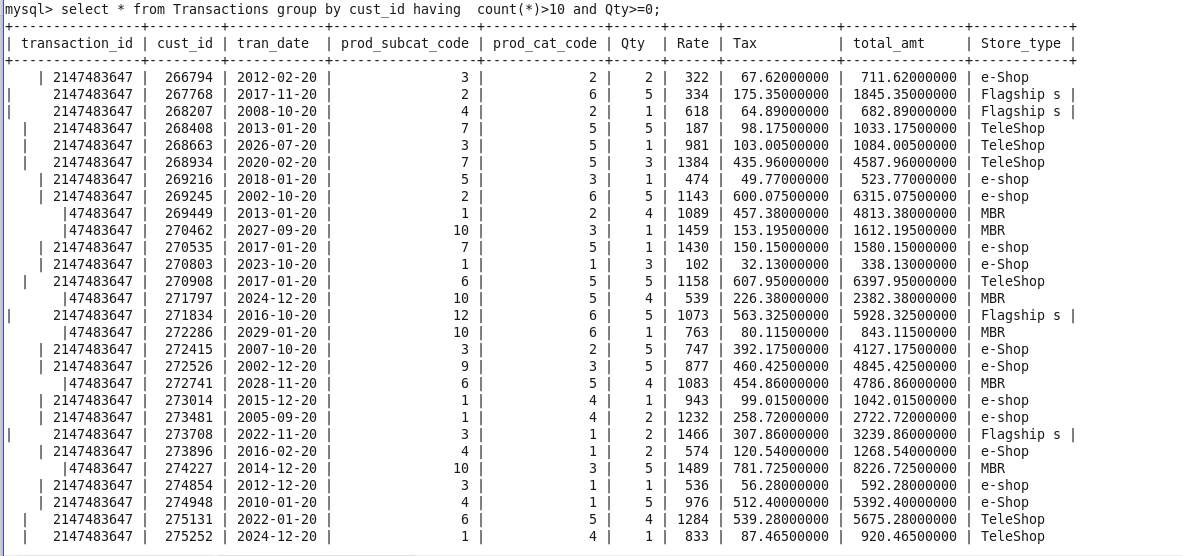
11.

mysql> select min(total\_amt) from Transactions where Qty=(select min(Qty) from Transactions);



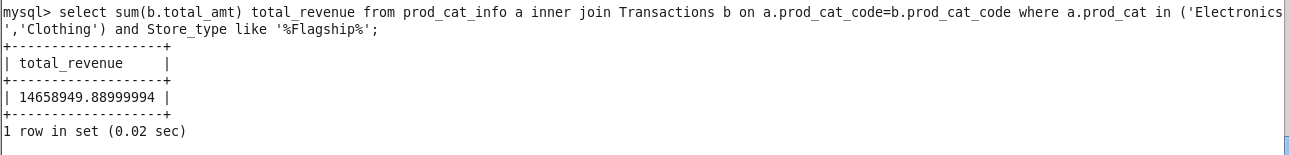
12.

mysql> select \* from Transactions group by cust\_id having count(\*)>10 and Qty>=0;



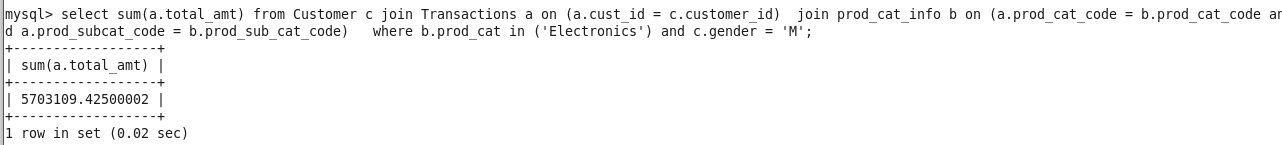
13.

mysql> select sum(b.total\_amt) total\_revenue from prod\_cat\_info a inner join Transactions b on a.prod\_cat\_code=b.prod\_cat\_code where a.prod\_cat in ('Electronics','Clothing') and Store\_type like '%Flagship%';



14.

mysql> select sum(a.total\_amt) from Customer c join Transactions a on (a.cust\_id = c.customer\_id) join prod\_cat\_info b on (a.prod\_cat\_code = b.prod\_cat\_code and a.prod\_subcat\_code = b.prod\_sub\_cat\_code) where b.prod\_cat in ('Electronics') and c.gender = 'M';



15.

mysql> select b.prod\_subcat,sum(abs(a.total\_amt)) as total,sum(case when a.Qty >0 then a.total\_amt else 0 end) as sales\_amt,sum(case when a.Qty <0 then abs(a.total\_amt) else 0 end) as return\_amt,sum(case when a.Qty >0 then a.total\_amt else 0 end)/sum(abs(a.total\_amt))\*100 as sales\_perc,sum(case when a.Qty <0 then abs(a.total\_amt) else 0 end)/sum(abs(a.total\_amt))\*100 as return\_perc from Transactions a join prod\_cat\_info b on (a.prod\_cat\_code = b.prod\_cat\_code and a.prod\_subcat\_code = b.prod\_sub\_cat\_code) group by b.prod\_subcat order by sales\_amt desc limit 5;

