**Report on DBMS Project**

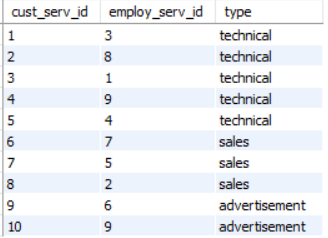
**The Telecommunication Management System**

Tables :

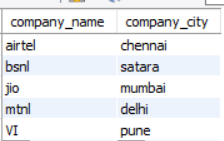
Employee:



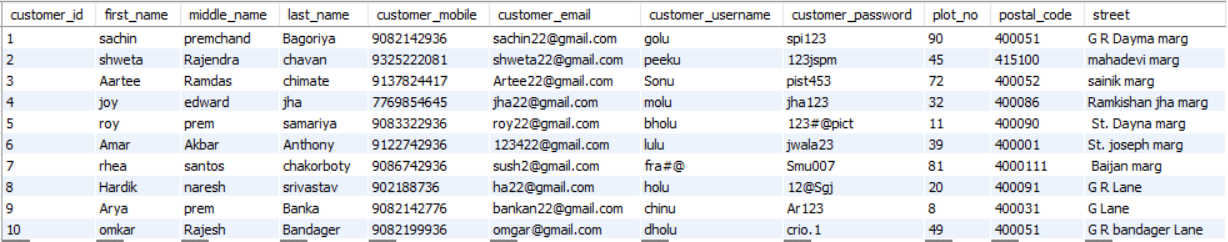
Customer-Service:



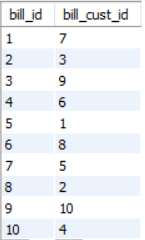
Company:



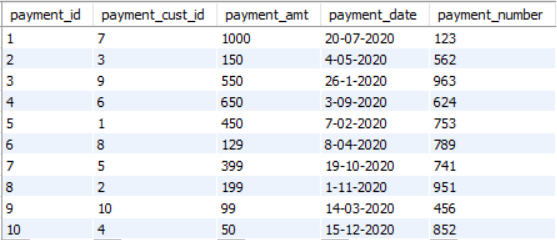
Customer:



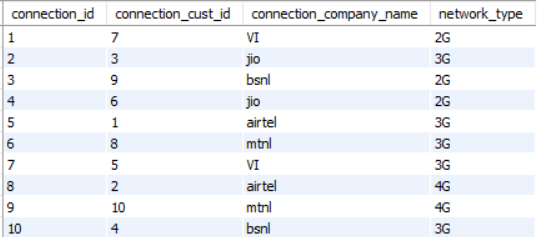
Bill:



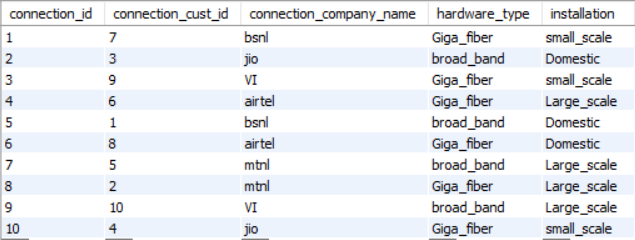
Payment:



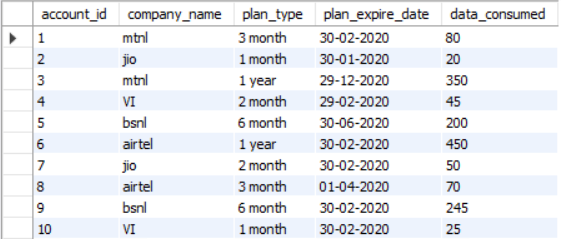
Network-Connection:



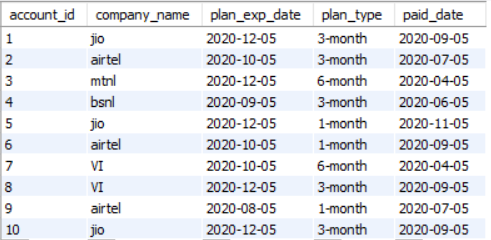
Hardware-Connection:



Post-paid Account:



Pre-Paid Account:



**Queries:**

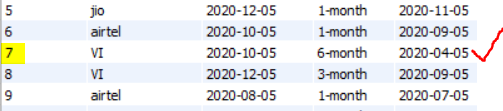
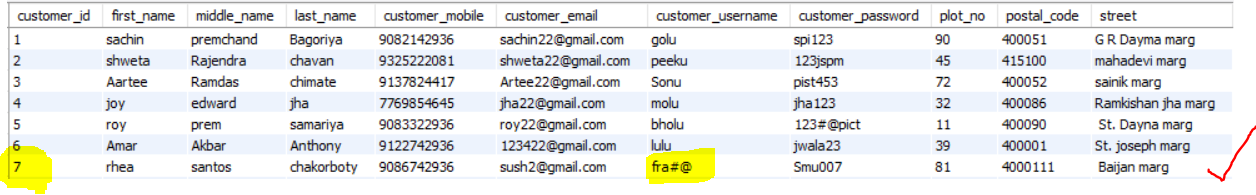
**[Query .1]** Find the pre-paid account details of customer whose username is fra#@ .

**Solution:**

select account\_id,company\_name,plan\_type,plan\_exp\_date,paid\_date

from prepaid\_account,customer

where account\_id = customer\_id and customer\_username ='fra#@';



**Output:**



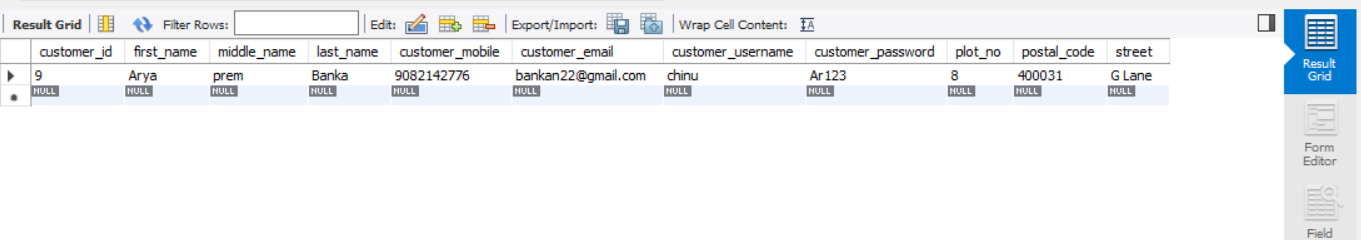
**[Query .2]** Display the details of customer whose customer id=9

**Solution:**

select \* from customer

where customer\_id=9;

**Output:**



**[Query .3]** Create a view of customer that have airtel connection and display there hardware connection details.

**Solution:**

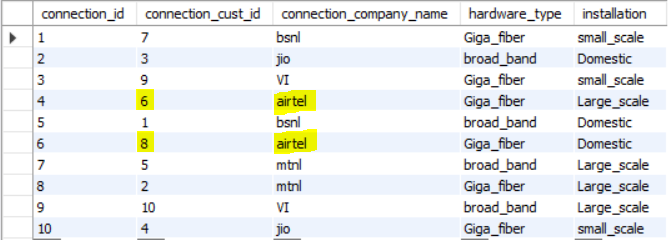
create view airtel\_user AS

select first\_name,middle\_name,last\_name,customer\_username,connection\_company\_name,hardware\_type,installation

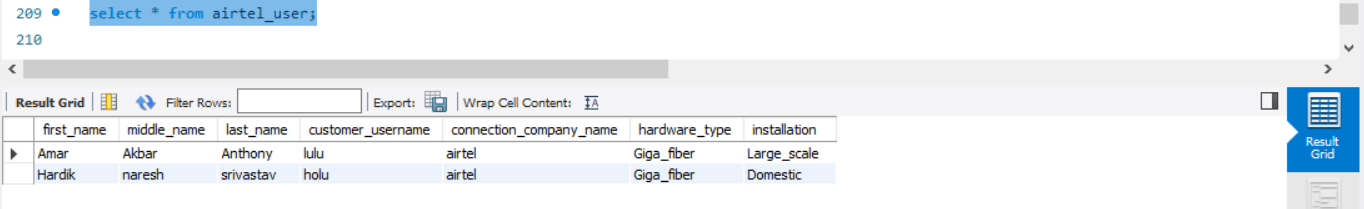
from customer,hardware\_connection

where customer\_id=connection\_cust\_id and connection\_company\_name='airtel';

select \* from airtel\_user;



**Output:**



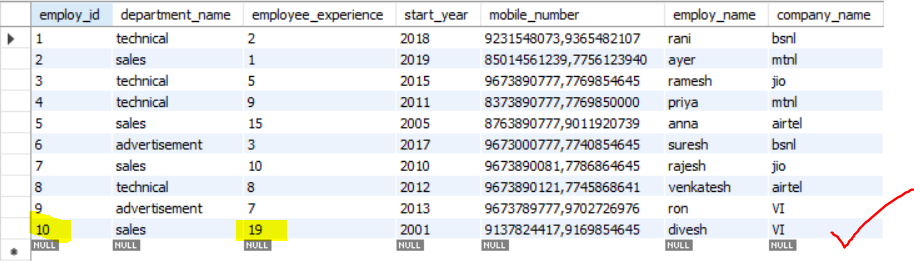
**[Query .4]** Display the details of Employee that has the highest experience.

**Solution:**

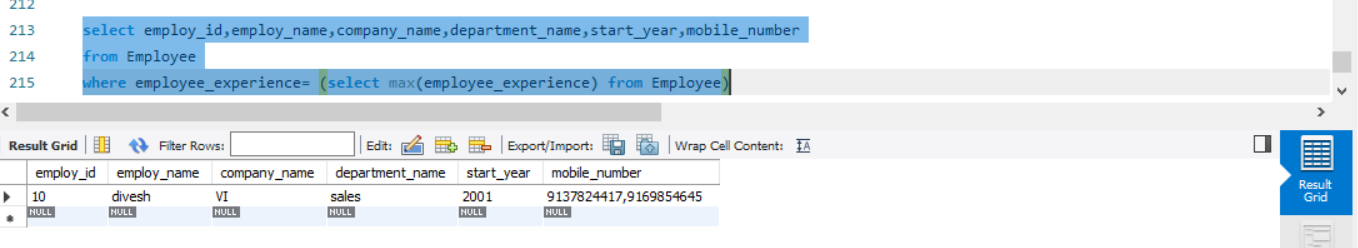
Select employ\_id,employ\_name,company\_name,department\_name,start\_year,mobile\_number

from Employee

where employee\_experience= (select max(employee\_experience) from Employee)



**Output:**



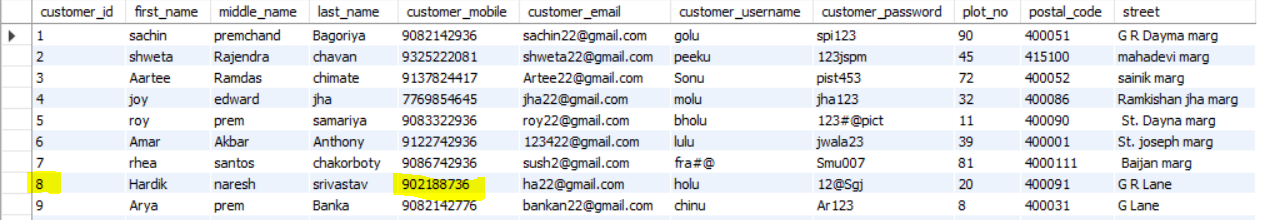
**[Query .5]** Display payment details of customer whose mobile number is 902188736.

**Solution:**

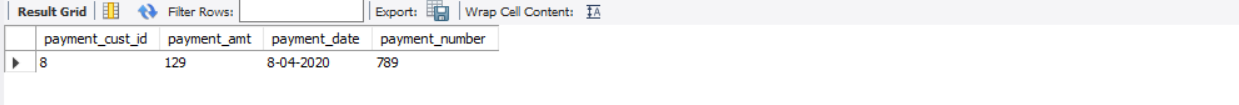
select payment\_cust\_id,payment\_amt,payment\_date,payment\_number

from payment,customer

where payment\_cust\_id=customer\_id and customer\_mobile='902188736';



**Output:**



**[Query .6]** before deleting any record form company table.

**Solution:**

Create or replace trigger remove\_name

Before delete On company

For each row

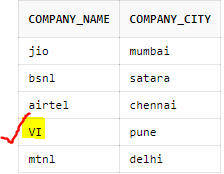
Begin

DBMS\_OUTPUT.PUT\_LINE('Are u want to remove the name from company ');

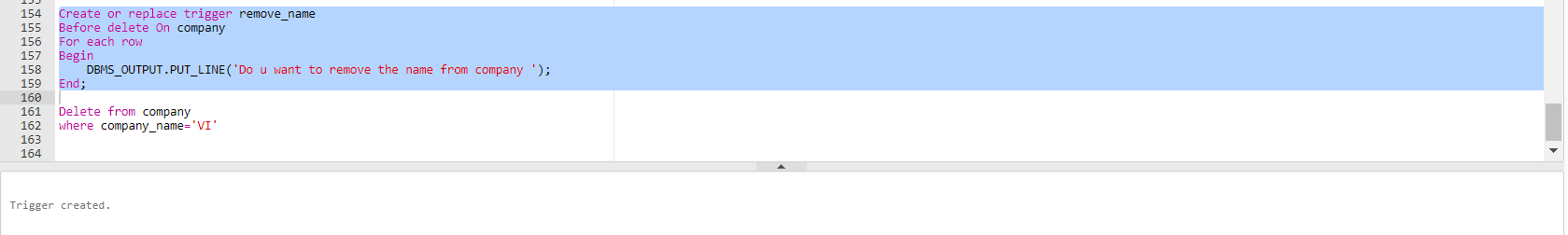
End;

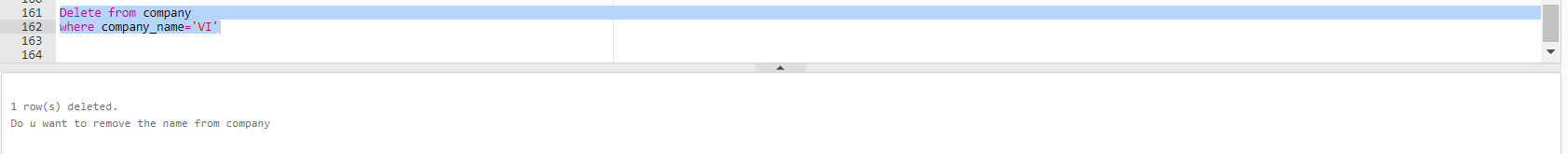
Delete from company

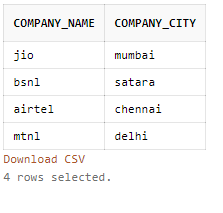
where company\_name='VI'



**Output:**







As seen from the company table company name VI (record) has been deleted.

**[Query .7]** after update on payment table

**Solution:**

Create or replace trigger pay\_check

after update

On payment

For each row

When(new.payment\_amt=1000)

Begin

DBMS\_OUTPUT.PUT\_LINE('sucessfull');

End;

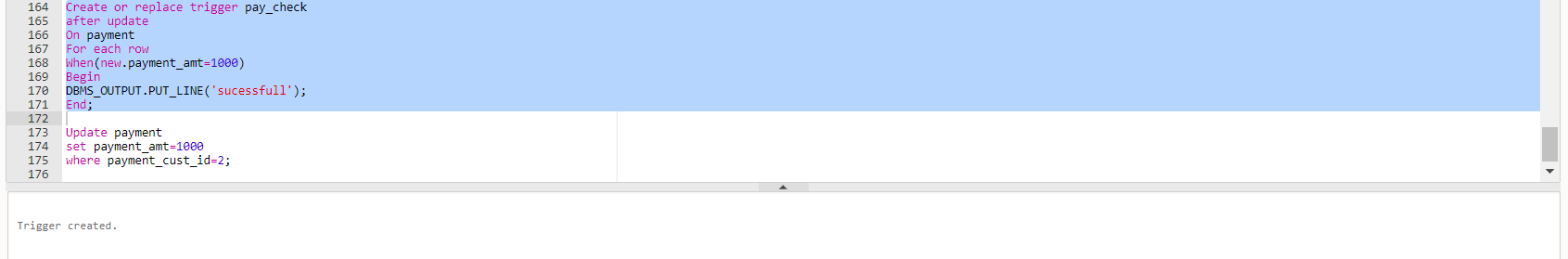
Update payment

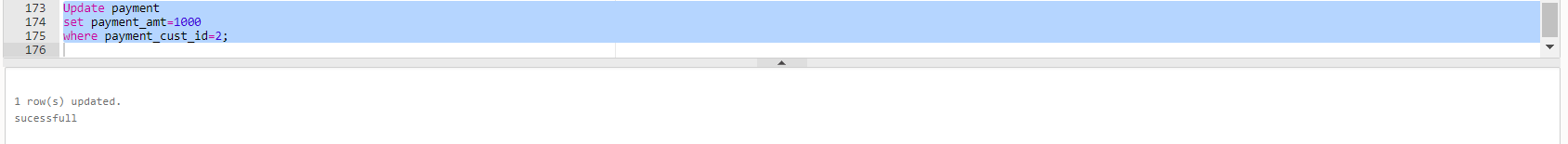
set payment\_amt=1000

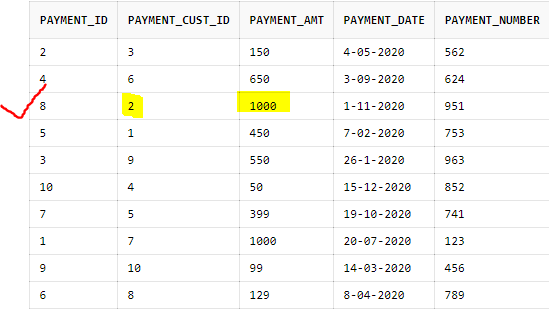
where payment\_cust\_id=2;



**Output:**







As observed the payment amount is updated to 1000 from 199.

**[Query .8]** After insert on bill table.

**Solution:**

Create or replace trigger insert\_succesfully

After insert

On bill

For each row

Begin

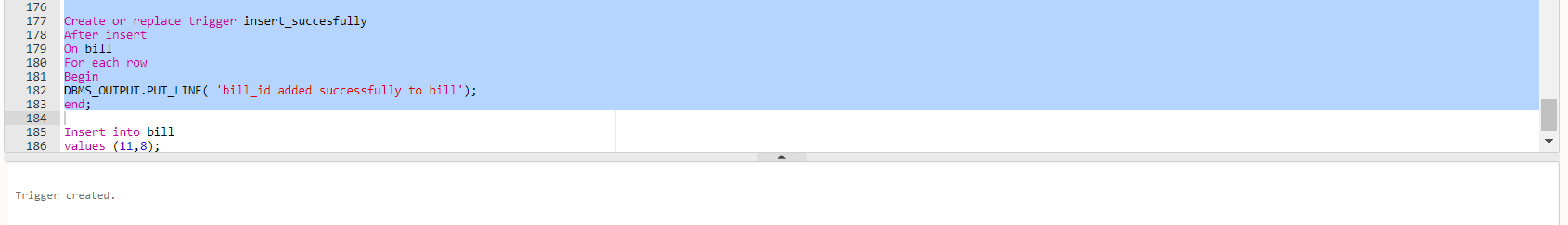
DBMS\_OUTPUT.PUT\_LINE( 'bill\_id added successfully to bill');

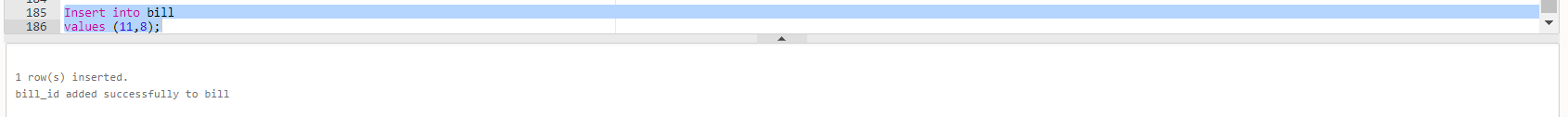
end;

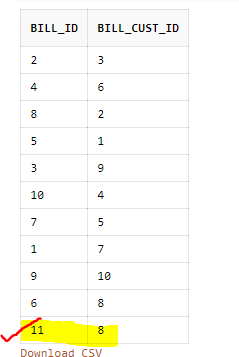
Insert into bill

values (11,8);

**Output:**





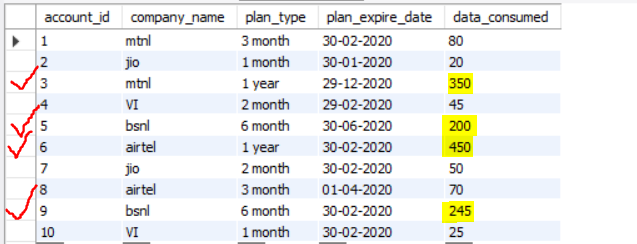


As Observed (11,8) is inserted.

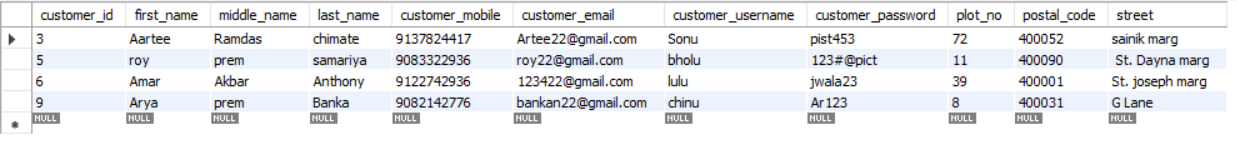
**[Query .9]** Display all the customer who consume more than 100 GB data in postpaid account.

**Solution:**

select \* from customer where customer\_id in (select account\_id from post\_paid\_account where data\_consumed>100);



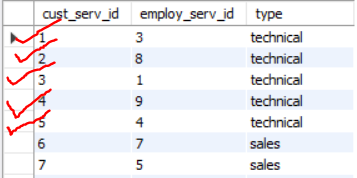
**Output:**



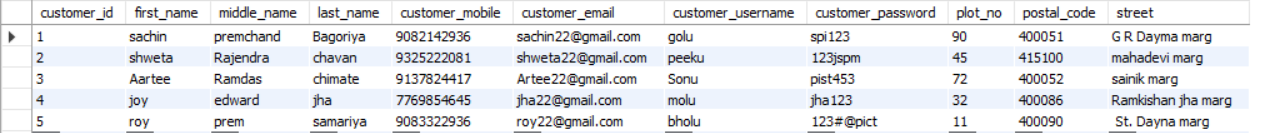
**[Query .10]** Display the customer details seeking customer-service from Employee who works in technical department.

**Solution:**

select \* from customer where customer\_id in (select cust\_serv\_id from cust\_service where type='technical');



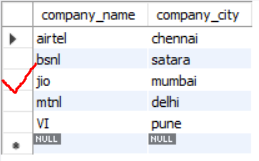
**Output:**



**[Query .11]** Write a query to display all the employee for the company who belong to the city='mumbai'?

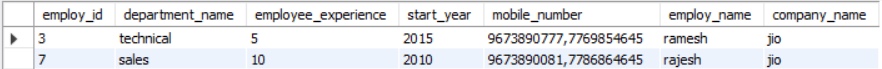
**Solution:**

select \* from employee where company\_name in (select company\_name from company where company\_city='mumbai')





**Output:**



**[Query .12]** Create a customer view table and perform insert, delete and update operations.

**Solution:**

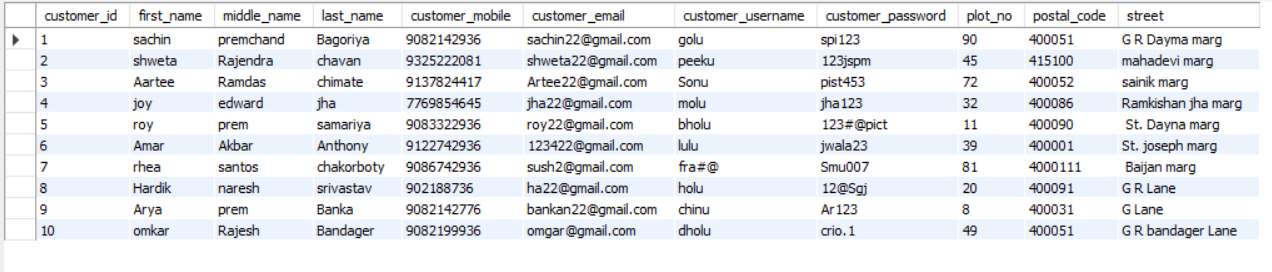
create view customer\_view\_table as

select customer\_id,first\_name,middle\_name,last\_name,customer\_mobile,customer\_email,customer\_username,customer\_password,plot\_no,postal\_code,street

from customer;

select \* from customer\_view\_table;

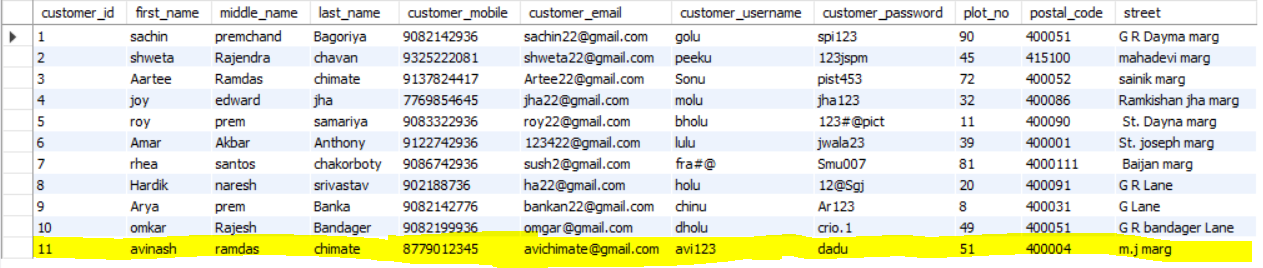
**Output:**



insert into customer\_view\_table(customer\_id,first\_name,middle\_name,last\_name,customer\_mobile,customer\_email,customer\_username,customer\_password,plot\_no,postal\_code,street)

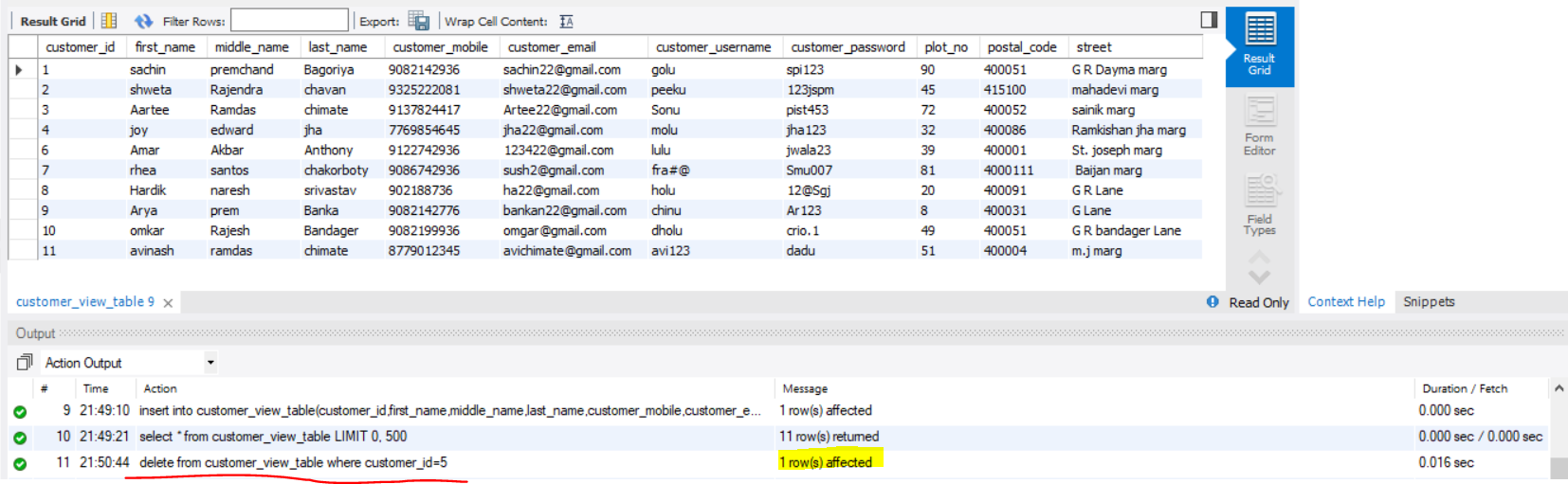
values (11,'avinash','ramdas','chimate',8779012345,'avichimate@gmail.com','avi123','dadu',51,400004,'m.j marg');

**Output:**



delete from customer\_view\_table where customer\_id=5;

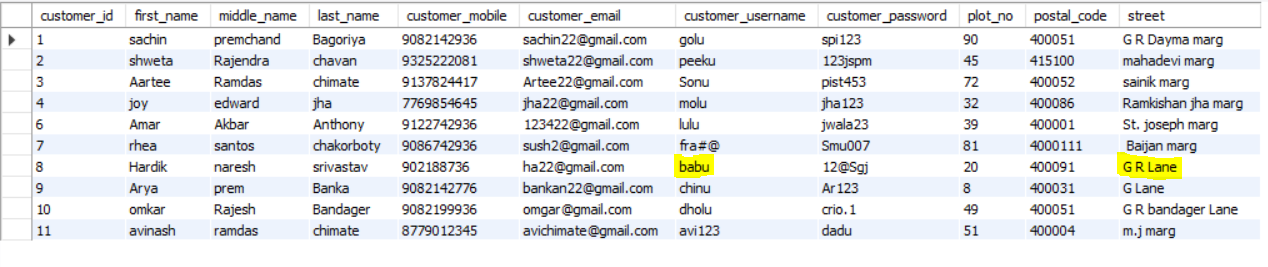
**Output:**



No record with customer-id = 5 is present.

update customer\_view\_table set customer\_username='babu' where street='G R Lane';

**Output:**



Customer-username is changed to babu from holu where street is G R Lane.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\****Thank You!!!*** \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*