20MCA134-ADVANCED DBMS LAB

EXPERIMENTS

SUBMITTED BY,

VIVIN V. ABRAHAM

R MCA-2020-S2

ROLL NO : 42

SUBMITTED TO ,

LISHA MISS

EXPERIMENT NO.4 : DATE, NUMBER AND CHARACTER FUNCTIONS

1. Using the customer table , create a select statement to display the results as shown in the table Customer name formatted

**** ANIL #### ANIL ****

**** MEHUL #### MEHUL ****

**** SUNIL #### SUNIL *****

****MADHURI #### MADHURI ****

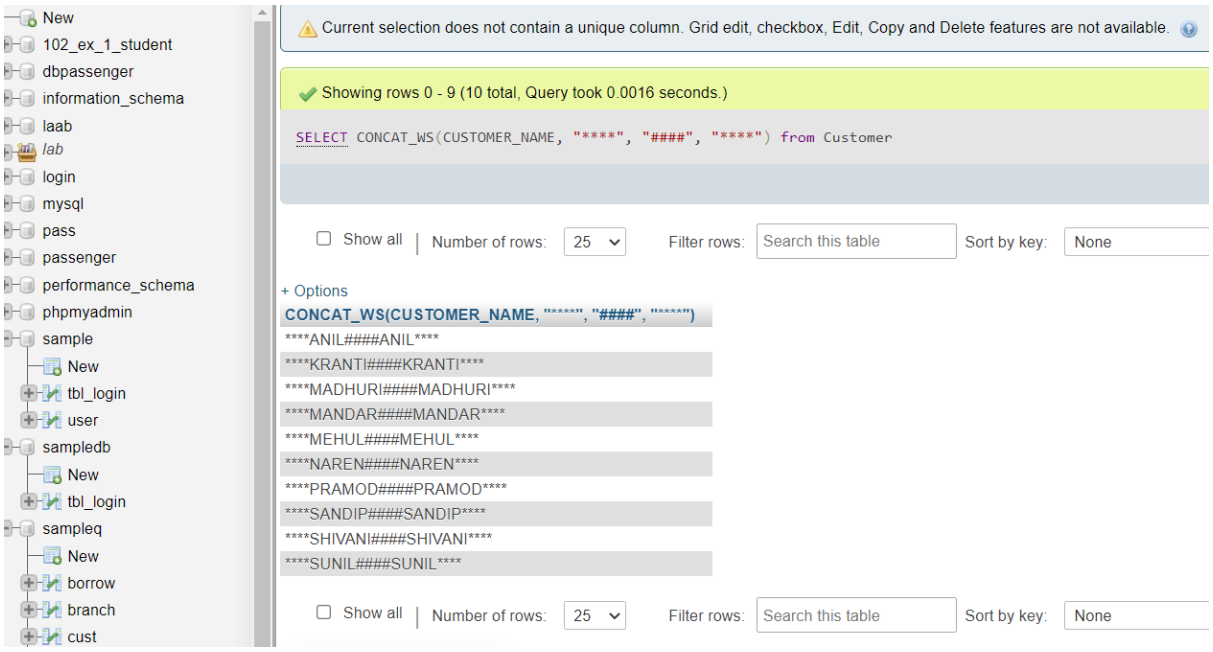
****PRAMOD#### PRAMOD****

**** KRANTI #### KRANTI ****

QUERY

```
SELECT CONCAT_WS(CUSTOMER_NAME, "****", "####", "****") from Customer
```

OUTPUT



EXPERIMENT NO.5 : 10/05/2021

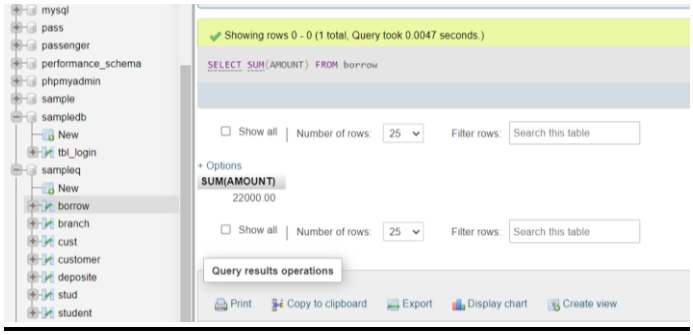
AGGREGATE FUNCTIONS

1.List total loan

QUERY

```
SELECT SUM(AMOUNT) FROM borrow
```

OUTPUT

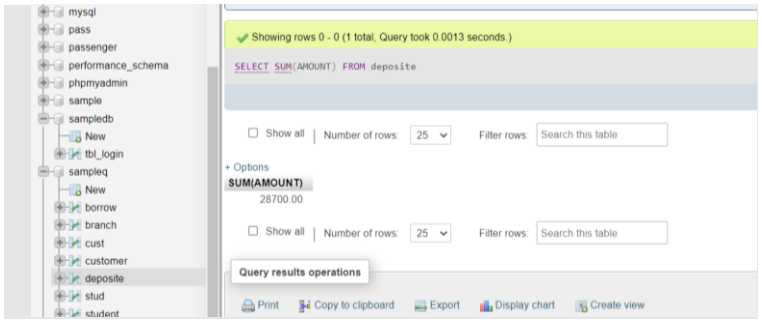


2.List total deposit

QUERY

```
SELECT SUM(AMOUNT) FROM deposite
```

OUTPUT

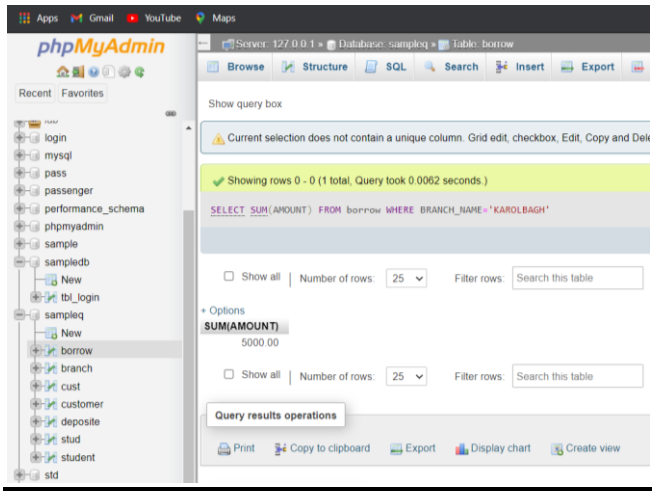


3.List total loan taken from KAROLBAGH branch

QUERY

```
SELECT SUM(AMOUNT) FROM borrow WHERE BRANCH_NAME='KAROLBAGH'
```

OUTPUT

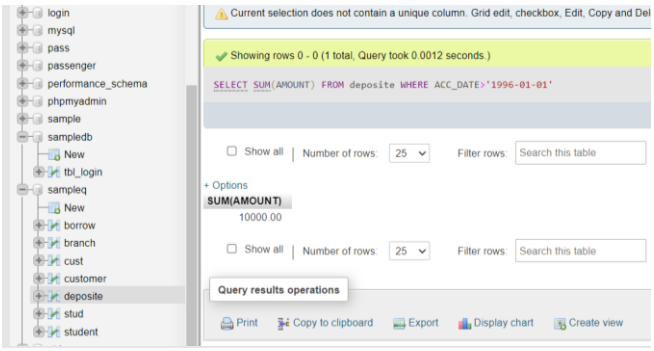


4.List total deposit of customers having account date later than 1-Jan-96

QUERY

```
SELECT SUM(AMOUNT) FROM deposite WHERE ACC_DATE>'1996-01-01'
```

OUTPUT

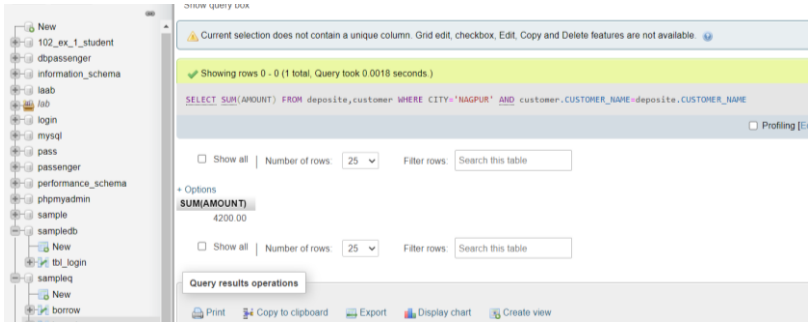


5.List total deposit of customers living in city NAGPUR

QUERY

```
SELECT SUM(AMOUNT) FROM deposite,customer WHERE CITY='NAGPUR' AND customer.CUSTOMER_NAME=deposite.CUSTOMER_NAME
```

OUTPUT

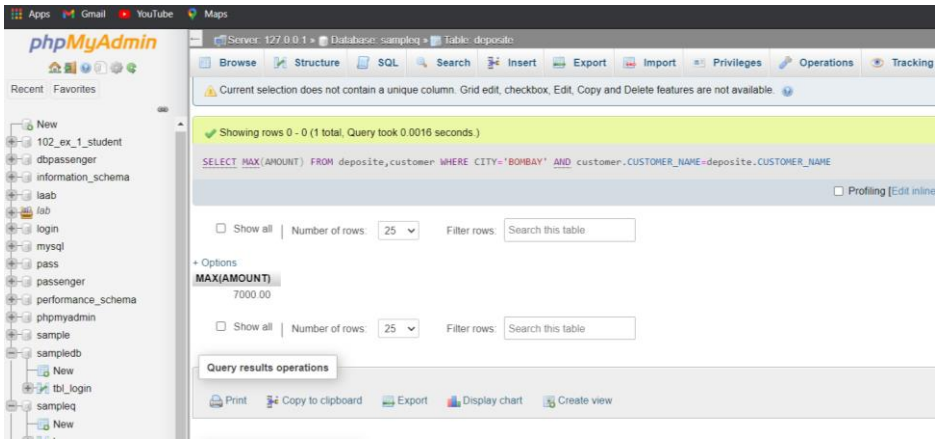


6.List maximum deposit of customer living in Bombay

QUERY

```
SELECT MAX(AMOUNT) FROM deposite,customer WHERE CITY='BOMBAY' AND customer.
CUSTOMER_NAME=deposite.CUSTOMER_NAME
```

OUTPUT

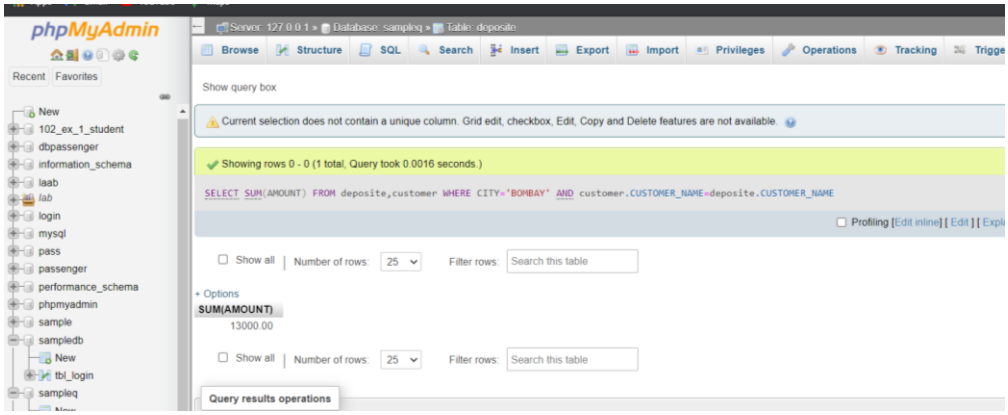


7.List total deposit of customer having branch in BOMBAY

QUERY

```
SELECT SUM(AMOUNT) FROM deposite,customer WHERE CITY='BOMBAY' AND customer.
CUSTOMER_NAME=deposite.CUSTOMER_NAME
```

OUTPUT

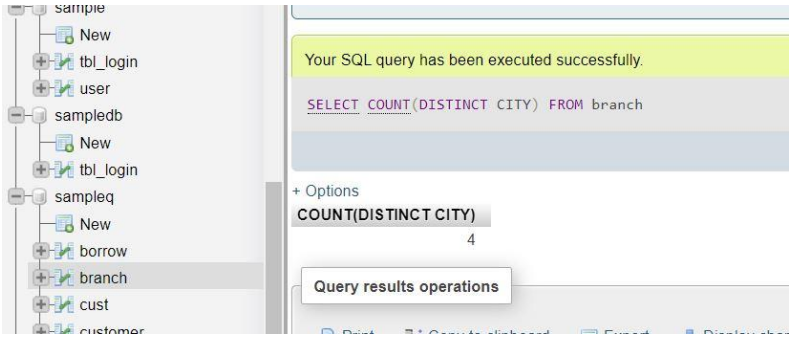


8.Count total number of branch cities

QUERY

```
SELECT COUNT(DISTINCT CITY) FROM branch
```

OUTPUT

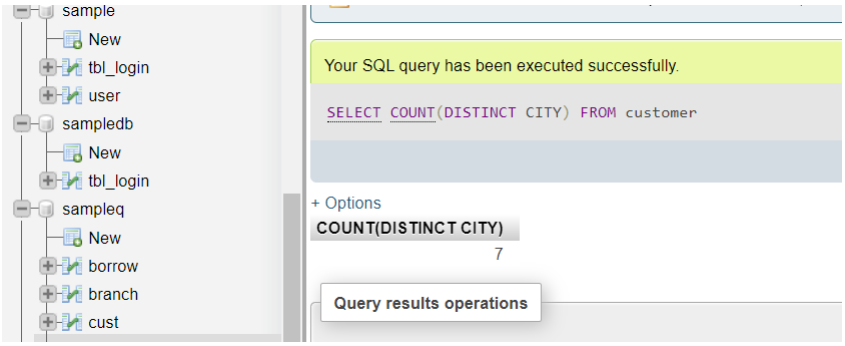


9.Count total number of customers cities

QUERY

```
SELECT COUNT(DISTINCT CITY) FROM customer
```

OUTPUT

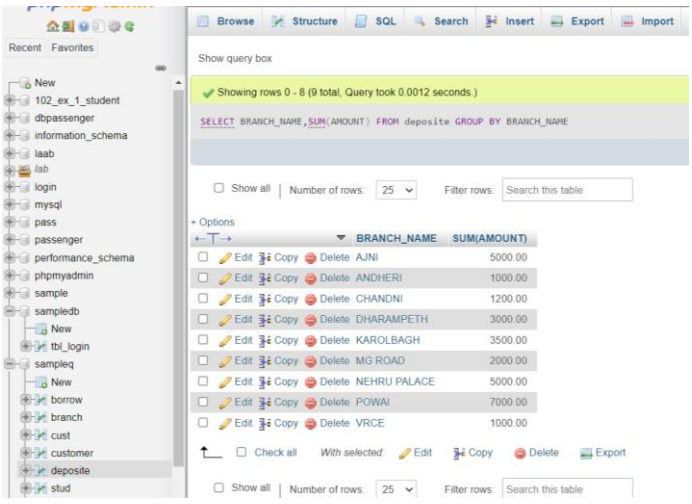


10.Give branch names and branch wise deposit

QUERY

```
SELECT BRANCH_NAME,SUM(AMOUNT) FROM deposite GROUP BY BRANCH_NAME
```

OUTPUT

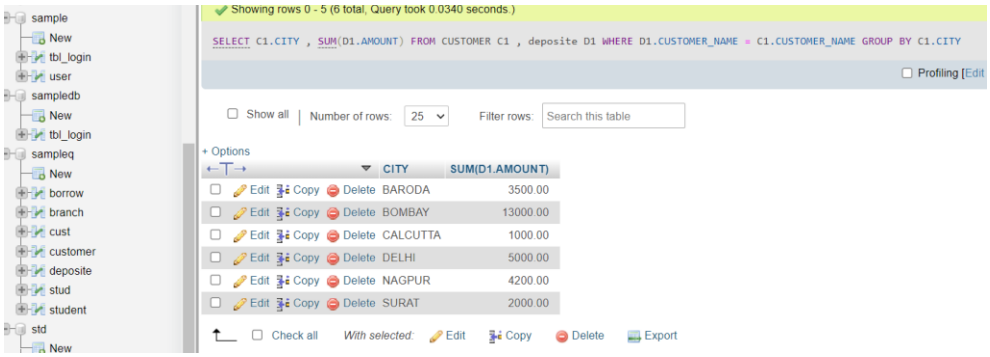


11.Give city wise name and branch wise deposit

QUERY

```
SELECT C1.CITY , SUM(D1.AMOUNT) FROM CUSTOMER C1 , deposite D1 WHERE D1.CUSTOMER_NAME = C1.CUSTOMER_NAME GROUP BY C1.CITY
```

OUTPUT

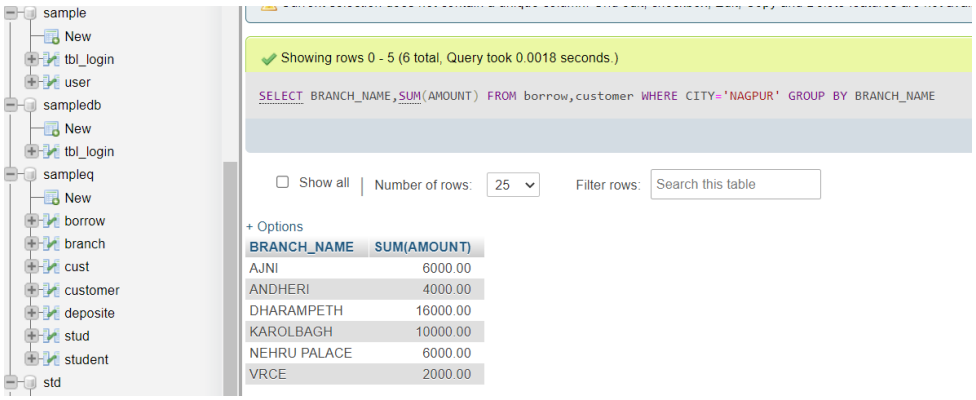


12.Give the branch wise loan of customer living in NAGPUR

QUERY

```
SELECT BRANCH_NAME,SUM(AMOUNT) FROM borrow,customer WHERE CITY='NAGPUR' GROUP BY BRANCH_NAME
```

OUTPUT

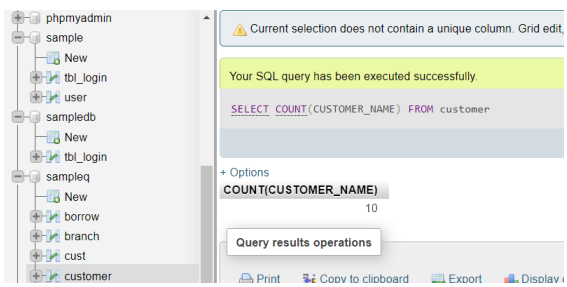


13.Count total number of customers

QUERY

```
SELECT COUNT(CUSTOMER_NAME) FROM customer
```

OUTPUT

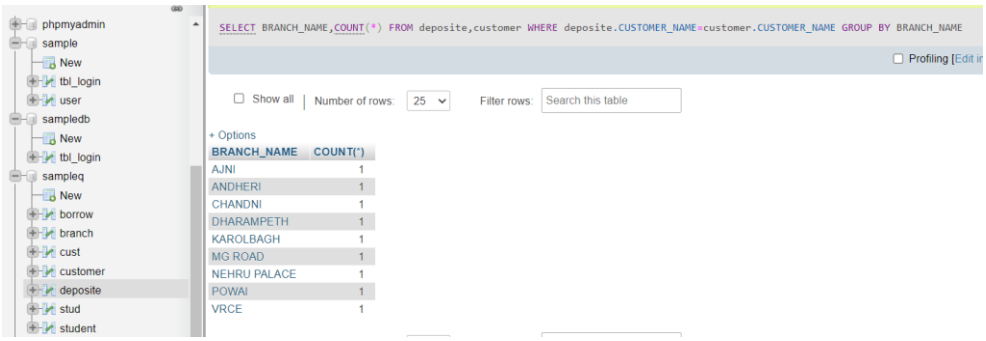


14.Count total number of depositors branch wise

QUERY

```
SELECT BRANCH_NAME,COUNT(*) FROM deposite,customer WHERE deposite.CUSTOMER_NAME=customer.CUSTOMER_NAME GROUP BY BRANCH_NAME
```

OUTPUT

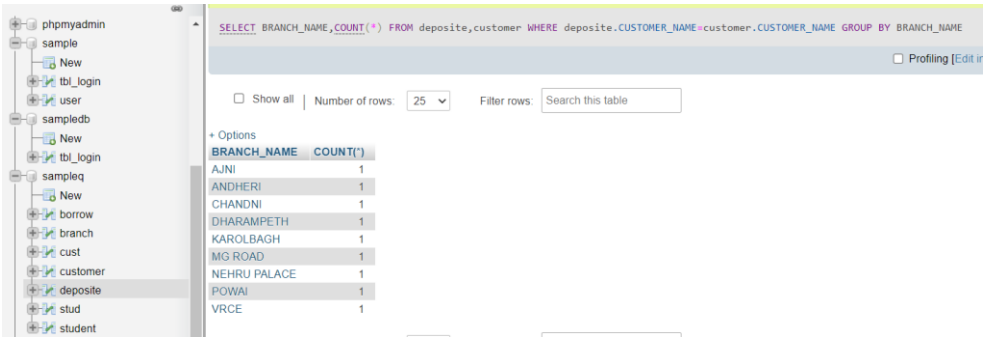


15.Count total number of depositors branch wise

QUERY

```
SELECT BRANCH_NAME,COUNT(*) FROM deposite,customer WHERE deposite.CUSTOMER_NAME=customer.CUSTOMER_NAME GROUP BY BRANCH_NAME
```

OUTPUT

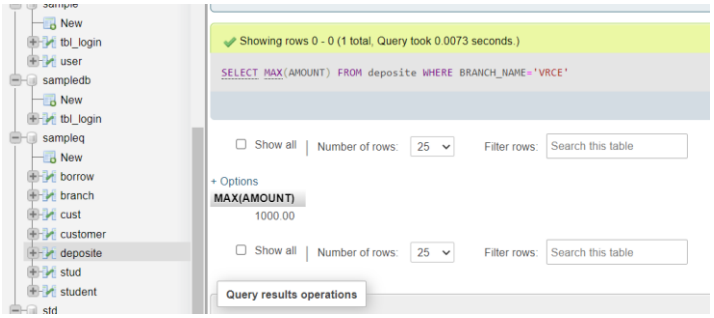


16.Give maximum loan from branch VRCE

QUERY

```
SELECT MAX(AMOUNT) FROM deposite WHERE BRANCH_NAME='VRCE'
```

OUTPUT

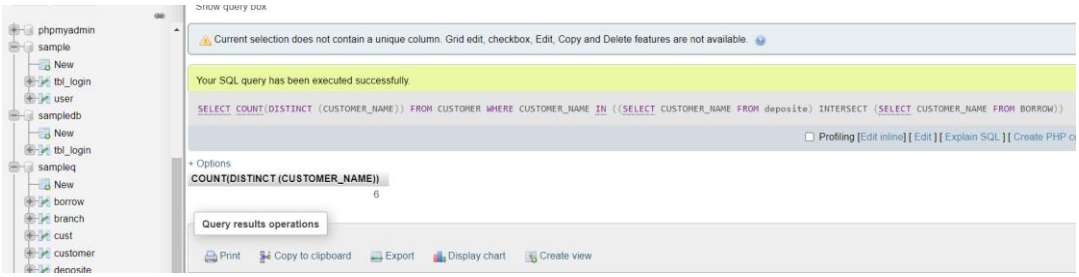


17.Give the number of customers who are depositors as well as borrowers

QUERY

```
SELECT COUNT(DISTINCT (CUSTOMER_NAME)) FROM CUSTOMER WHERE CUSTOMER_NAME IN
 ((SELECT CUSTOMER_NAME FROM deposite) INTERSECT (SELECT CUSTOMER_NAME FROM
 BORROW))
```

OUTPUT



EXPERIMENT NO.6 : 10/05/2021

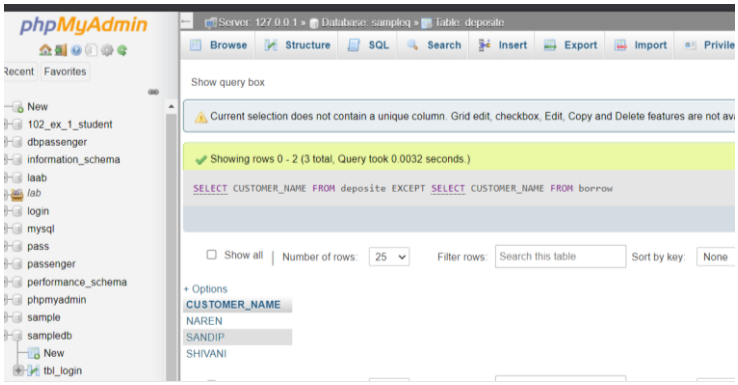
SET OPERATIONS

1. List all the customers who are depositors but not borrowers.

QUERY

```
SELECT CUSTOMER_NAME FROM deposite EXCEPT SELECT CUSTOMER_NAME FROM borr
OW
```

OUTPUT

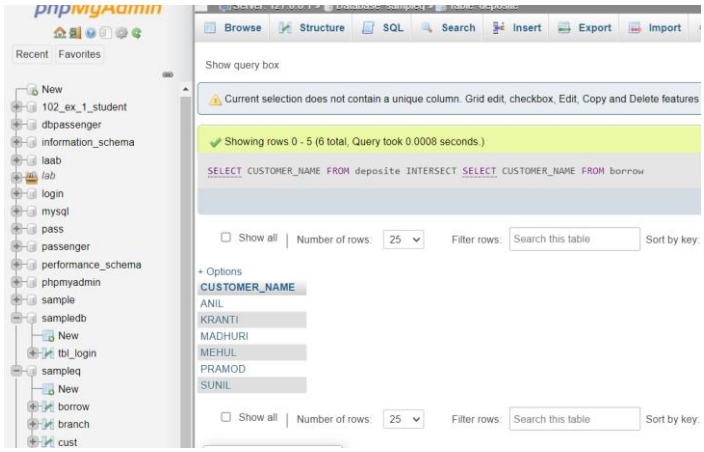


2. List all the customers who are both depositors and borrowers

QUERY

```
SELECT CUSTOMER_NAME FROM deposite INTERSECT SELECT CUSTOMER_NAME FROM b
orrow
```

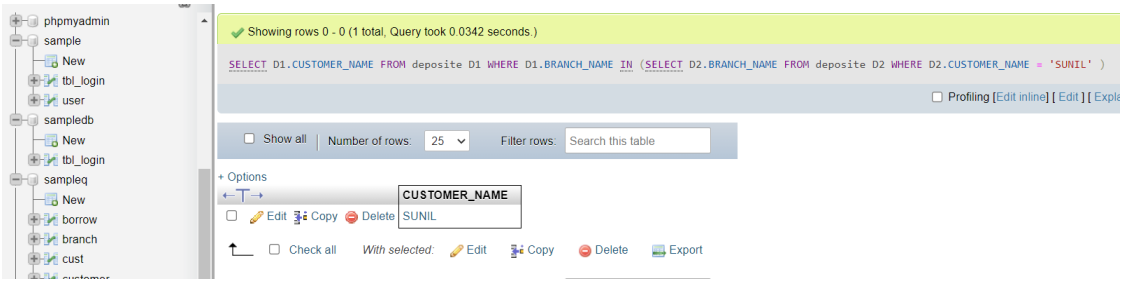
OUTPUT



3. List all the depositors having deposit in all the branches where Sunil is having Account

QUERY

```
SELECT D1.CUSTOMER_NAME FROM deposite D1 WHERE D1.BRANCH_NAME IN (SELECT
   D2.BRANCH_NAME FROM deposite D2 WHERE D2.CUSTOMER_NAME = 'SUNIL' )
```



4.List all the customers living in city NAGPUR and having branch city BOMBAY or DELHI

QUERY

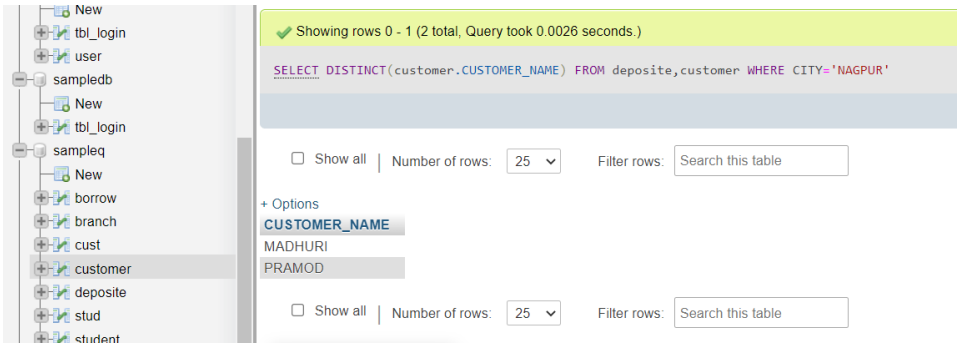
```
SELECT C1.CUSTOMER_NAME FROM customer C1,deposite D1, branch B1 WHERE C1
.CITY = 'NAGPUR' AND C1.CUSTOMER_NAME = D1.CUSTOMER_NAME AND D1.BRANCH_N
AME = B1.BRANCH_NAME AND B1.CITY IN ('BOMBAY','DELHI')
```

OUTPUT

5.List all the depositors living in city NAGPUR

QUERY

```
SELECT DISTINCT(customer.CUSTOMER_NAME) FROM deposite,customer WHERE
CITY='NAGPUR'
```

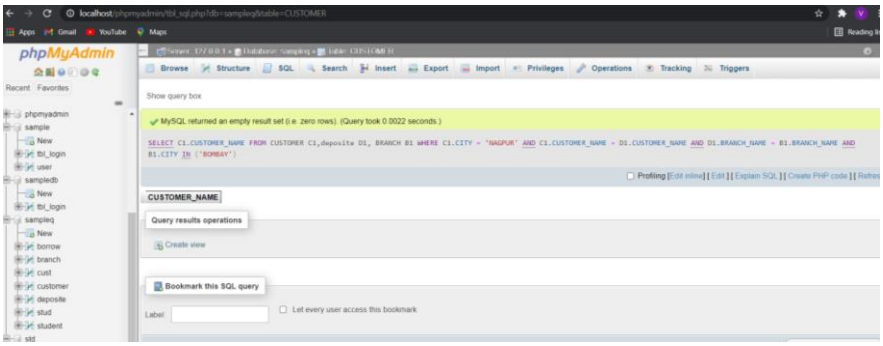


6. List all the depositors living in the city NAGPUR and having branch in city BOMBAY

QUERY

```
SELECT C1.CUSTOMER_NAME FROM CUSTOMER C1,deposite D1, BRANCH B1 WHERE
 C1.CITY = 'NAGPUR' AND C1.CUSTOMER_NAME = D1.CUSTOMER_NAME AND D1.BR
ANCH_NAME = B1.BRANCH_NAME AND B1.CITY IN ('BOMBAY')
```

OUTPUT

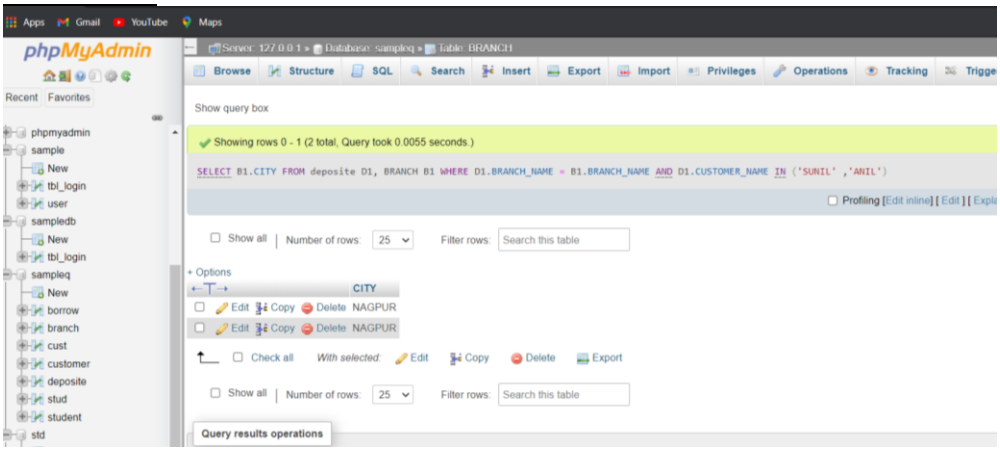


7. List the branch cities of Anil and Sunil

QUERY

```
SELECT B1.CITY FROM deposite D1, BRANCH B1 WHERE D1.BRANCH_NAME = B1.
BRANCH_NAME AND D1.CUSTOMER_NAME IN ('SUNIL' ,'ANIL')
```

OUTPUT

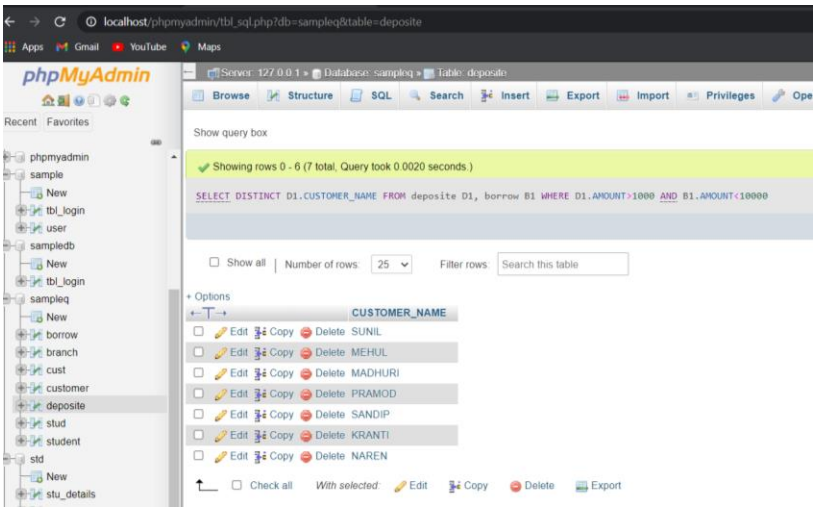


8. List the customers having deposit greater than 1000 and loan less than 10000.

QUERY

```
SELECT DISTINCT D1.CUSTOMER_NAME FROM deposite D1, borrow B1 WHERE D1
.AMOUNT>1000 AND B1.AMOUNT<10000
```

OUTPUT

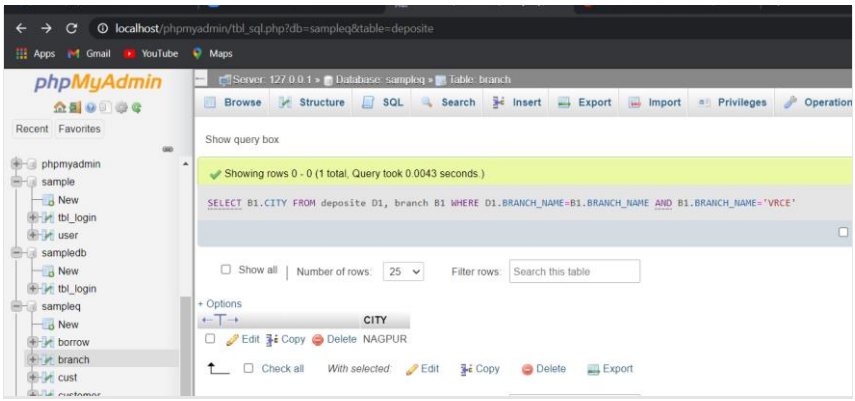


9. List the cities of depositors having branch VRCE.

QUERY

```
SELECT B1.CITY FROM deposite D1, branch B1 WHERE D1.BRANCH_NAME=B1.BR
ANCH_NAME AND B1.BRANCH_NAME='VRCE'
```

OUTPUT

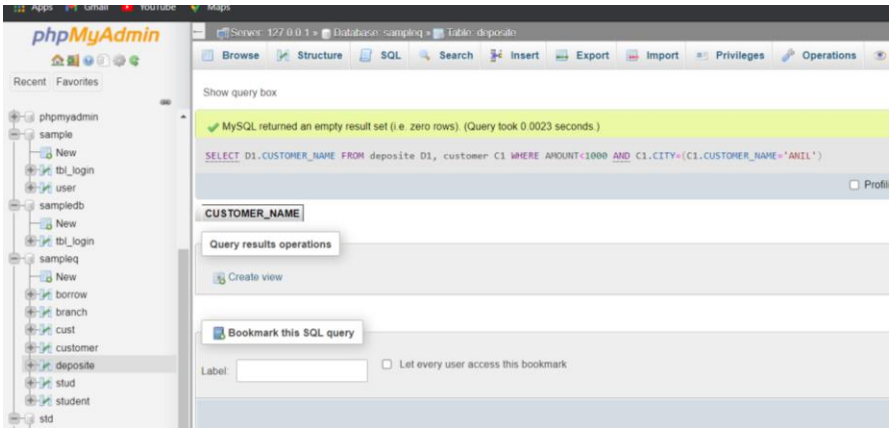


10. List the depositors having amount less than 1000 and living in the same city as Anil

QUERY

```
SELECT D1.CUSTOMER_NAME FROM deposite D1, customer C1 WHERE AMOUNT<10
00 AND C1.CITY=(C1.CUSTOMER_NAME='ANIL')
```

OUTPUT

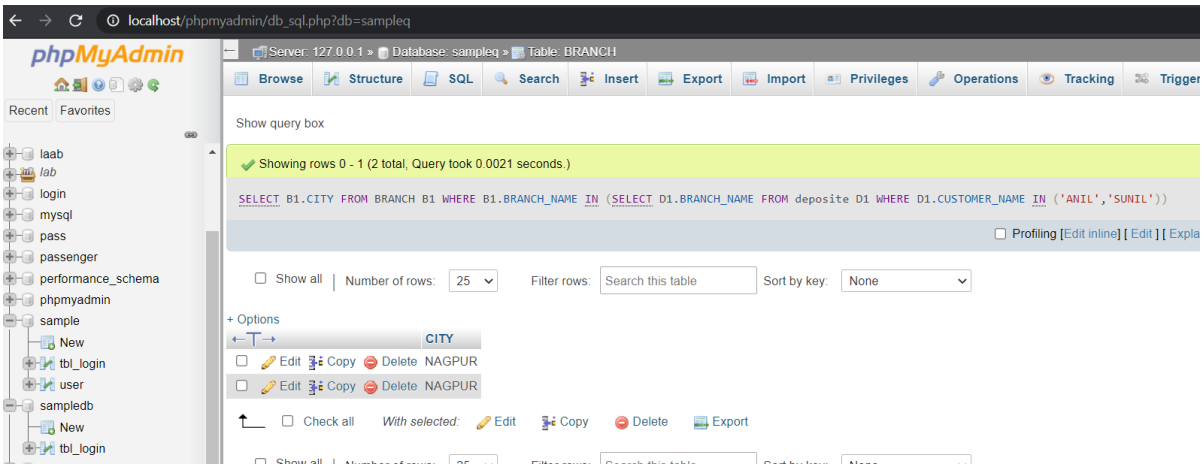


11. List all the cities where branches of Anil and Sunil are locate

QUERY

```
SELECT B1.CITY FROM BRANCH B1 WHERE B1.BRANCH_NAME IN (SELECT D1.BRAN
CH_NAME FROM deposite D1 WHERE D1.CUSTOMER_NAME IN ('ANIL','SUNIL'))
```

OUTPUT

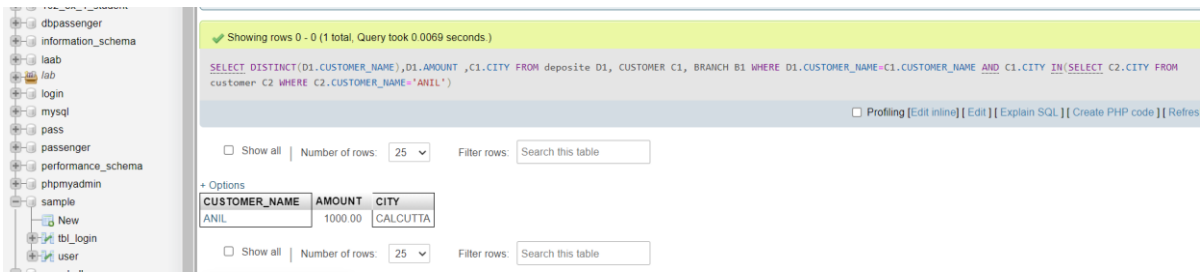


12. List the amount for the depositors living in the city where Anil is living

QUERY

```
SELECT DISTINCT(D1.CUSTOMER_NAME),D1.AMOUNT ,C1.CITY FROM deposite D1
, CUSTOMER C1, BRANCH B1 WHERE D1.CUSTOMER_NAME=C1.CUSTOMER_NAME AND
C1.CITY IN(SELECT C2.CITY FROM customer C2 WHERE C2.CUSTOMER_NAME='AN
IL')
```

OUTPUT



EXPERIMENT NO.7 : 10/05/2021

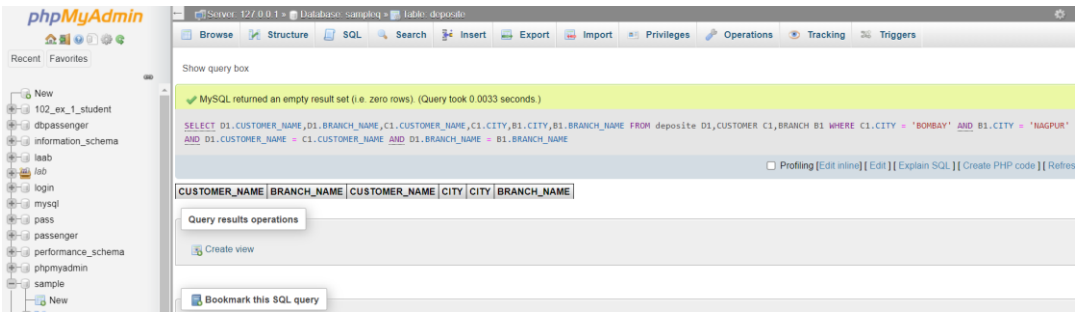
JOIN OR CARTESIAN PRODUCT

1. Give name of customers having living city BOMBAY and branch city NAGPUR

QUERY

```
SELECT D1.CUSTOMER_NAME,D1.BRANCH_NAME,C1.CUSTOMER_NAME,C1.CITY,B1.CITY,
B1.BRANCH_NAME FROM deposite D1,CUSTOMER C1,BRANCH B1 WHERE C1.CITY = 'B
OMBAY' AND B1.CITY = 'NAGPUR' AND D1.CUSTOMER_NAME = C1.CUSTOMER_NAME AN
D D1.BRANCH_NAME = B1.BRANCH_NAME
```

OUTPUT

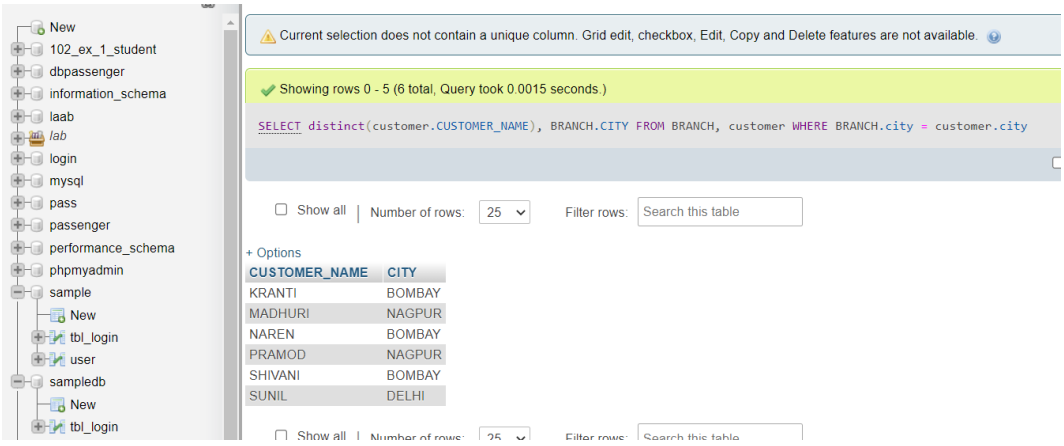


2. Give names of customers having the same living city as their branch city

QUERY

```
SELECT distinct(customer.CUSTOMER_NAME), BRANCH.CITY FROM BRANCH, custom
er WHERE BRANCH.city = customer.city
```

OUTPUT

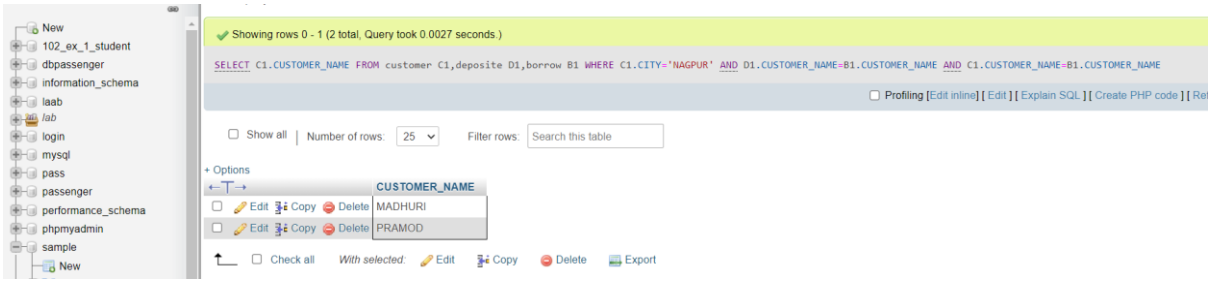


3. Give names of customers who are borrowers as well as depositors and having city NAGPUR.

QUERY

```
SELECT C1.CUSTOMER_NAME FROM customer C1,deposite D1,borrow B1 WHERE C1.CITY='NAGPUR' AND D1.CUSTOMER_NAME=B1.CUSTOMER_NAME AND C1.CUSTOMER_NAME=B1.CUSTOMER_NAME
```

OUTPUT

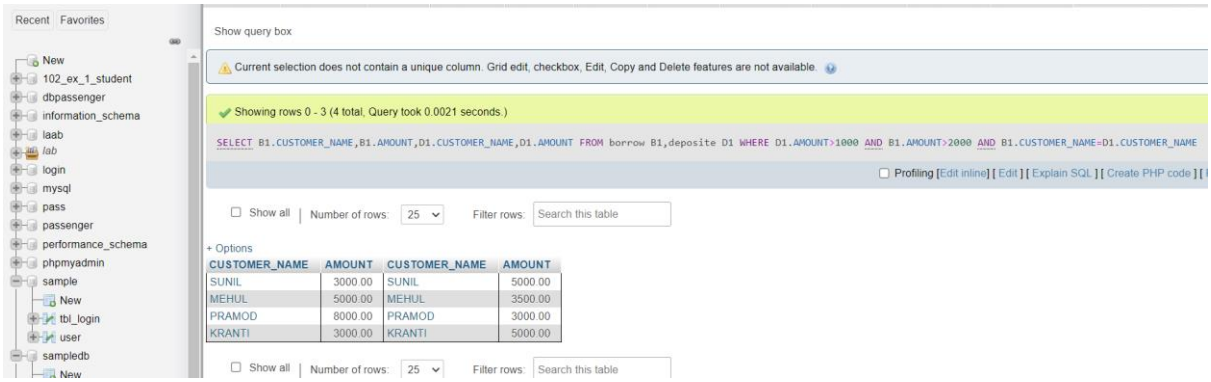


4. Give names of borrowers having deposit amount greater than 1000 and loan amount greater than 2000.

QUERY

```
SELECT B1.CUSTOMER_NAME,B1.AMOUNT,D1.CUSTOMER_NAME,D1.AMOUNT FROM borrow B1,deposite D1 WHERE D1.AMOUNT>1000 AND B1.AMOUNT>2000 AND B1.CUSTOMER_NAME=D1.CUSTOMER_NAME
```

OUTPUT

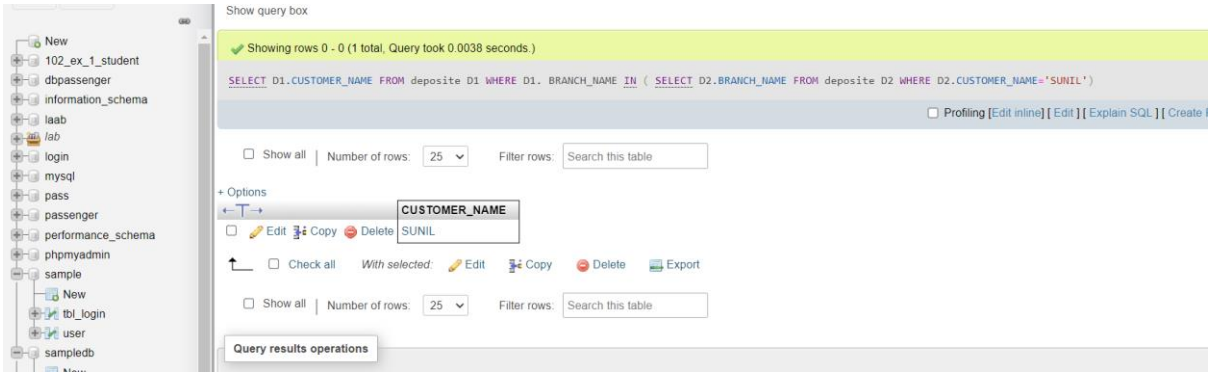


5. Give names of depositors having the same branch as the branch of Sunil

QUERY

```
SELECT D1.CUSTOMER_NAME FROM deposite D1 WHERE D1. BRANCH_NAME IN ( SELECT D2.BRANCH_NAME FROM deposite D2 WHERE D2.CUSTOMER_NAME='SUNIL')
```

OUTPUT

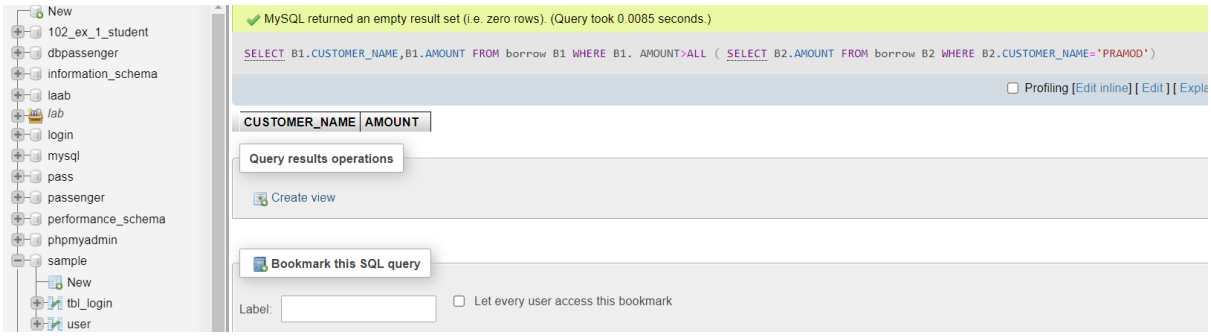


6. Give names of borrowers having loan amount greater than the loan amount of Pramod

QUERY

```
SELECT B1.CUSTOMER_NAME,B1.AMOUNT FROM borrow B1 WHERE B1. AMOUNT>ALL
 ( SELECT B2.AMOUNT FROM borrow B2 WHERE B2.CUSTOMER_NAME='PRAMOD')
```

OUTPUT



7. Give the name of the customer living in the city where branch of depositor Sunil is located.

QUERY

```
SELECT C1.CUSTOMER_NAME FROM CUSTOMER C1 WHERE C1.CITY IN (SELECT B1.
CITY FROM BRANCH B1 WHERE B1.BRANCH_NAME IN (SELECT D1.BRANCH_NAME FR
OM deposite D1 WHERE D1.CUSTOMER_NAME='SUNIL'))
```

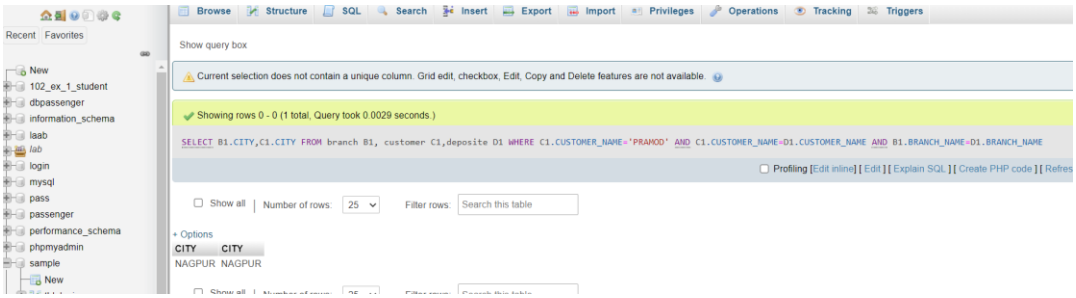
OUTPUT

8. Give branch city and living city of Pramod

QUERY

```
SELECT B1.CITY,C1.CITY FROM branch B1, customer C1,deposite D1 WHERE
C1.CUSTOMER_NAME='PRAMOD' AND C1.CUSTOMER_NAME=D1.CUSTOMER_NAME AND B
1.BRANCH_NAME=D1.BRANCH_NAME
```

OUTPUT



9. Give branch city of Sunil and branch city of Anil

QUERY

```
SELECT B1.CITY FROM DEPOSITE D1, BRANCH B1 WHERE D1.BRANCH_NAME = B1.
BRANCH_NAME AND D1.CUSTOMER_NAME IN ('SUNIL' ,'ANIL')
```

OUTPUT

10. Give the living city of Anil and the living city of Sunil

QUERY

```
SELECT C1.CUSTOMER_NAME,C1.CITY FROM customer C1 WHERE C1.CUSTOMER_NA
ME IN ('SUNIL' ,'ANIL')
```

OUTPUT