# DIVYASHREE K 1BM19CS054 CSE-4A

Question:-Program 2:

Consider the following database for a banking enterprise. Branch (branch-name: String, branch-city: String, assets: real) BankAccount(accno: int, branch-name: String, balance: real) BankCustomer (customer-name: String, customer-street: String, customer-city: String) Depositer(customer-name: String, accno: int) Loan (loan-number: int, branchname: String, amount: real) i. Create the above tables by properly specifying the primary keys and the foreign keys. ii. Enter at least five tuples for each relation. iii. Find all the customers who have at least two accounts at the Main branch (ex. SBI\_ResidencyRoad). iv. Find all the customers who have an account at all the branches located in a specific city (Ex. Delhi). v. Demonstrate how you delete all account tuples at every branch located in a specific city (Ex. Bombay).

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Program 2:
create database sample2;
use sample2;
```

CREATE TABLE branch
( branch\_name VARCHAR(20),
branch\_city VARCHAR(20),
assets REAL,
PRIMARY KEY(branch\_name)
);

CREATE TABLE accounts

( acc\_no INT,

branch\_name VARCHAR(50),

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balance REAL,
PRIMARY KEY(acc_no),
FOREIGN KEY(branch_name)
REFERENCES branch(branch_name)
ON UPDATE CASCADE ON DELETE
CASCADE
);
```

```
CREATE TABLE customer
( customer_name VARCHAR(20),
customer_street VARCHAR(50),
customer_city VARCHAR(20),
PRIMARY KEY(customer_name)
);
```

```
CREATE TABLE depositor
(customer name VARCHAR(20),
acc_no INT,
PRIMARY KEY(customer_name,
acc_no),
FOREIGN KEY(customer name)
REFERENCES
customer(customer_name)
ON UPDATE CASCADE ON DELETE
CASCADE,
FOREIGN KEY(acc_no) REFERENCES
accounts(acc_no)
ON UPDATE CASCADE ON DELETE
CASCADE
);
```

```
CREATE TABLE Ioan
(loan_numberINT,
branch name VARCHAR(50),
amount REAL,
PRIMARY KEY(loan_number),
FOREIGN KEY(branch name)
REFERENCES branch(branch_name)
ON UPDATE CASCADE ON DELETE
CASCADE
);
```

INSERT INTO branch(branch\_name,branch\_city,asset s) VALUES ('SBI\_Chamrajpet','Bangalore',50000),('

SBI\_ResidencyRoad','Bangalore',10000),('SBI\_ShivajiRoad','Bombay',20000),('SBI\_ParlimentRoad','Delhi',10000),('SBI\_Jantarmantar','Delhi',20000);

## **INSERT INTO**

accounts(acc\_no,branch\_name,balance) VALUES

(1,'SBI\_Chamrajpet',2000),(2,'SBI\_Resid encyRoad',5000),(3,'SBI\_ShivajiRoad',6 000),(4,'SBI\_ParlimentRoad',9000),(5,'S BI\_Jantarmantar',8000),(6,'SBI\_ShivajiR oad',4000),(8,'SBI\_ResidencyRoad',400 0),(9,'SBI\_ParlimentRoad',3000),(10,'SBI\_ResidencyRoad',5000),(11,'SBI\_Jantar mantar',2000);

## **INSERT INTO**

customer(customer\_name,customer\_st reet,customer\_city) VALUES ('Avinash','Bull\_Temple\_Road','Bangalo re'),('Dinesh','Bannergatta\_Road','Bang alore'),('Mohan','NationalCollege\_Road','Bangalore'),('Nikil','Akbar\_Road','Delhi'),('Ravi','Prithviraj\_Road','Delhi');

## **INSERT INTO**

depositor(customer\_name,acc\_no)
VALUES
('Avinash',1),('Dinesh',2),('Nikil',4),('Ravi',5),('Avinash',8),('Nikil',9),('Dinesh',10),('Nikil',11);

#### **INSERT INTO**

loan(loan\_number,branch\_name,amou

nt) VALUES (1,'SBI\_Chamrajpet',1000),(2,'SBI\_Resid encyRoad',2000),(3,'SBI\_ShivajiRoad',3 000),(4,'SBI\_ParlimentRoad',4000),(5,'S BI\_Jantarmantar',5000);

SELECT \* FROM branch;

SELECT \* FROM accounts;

SELECT \* FROM customer;

SELECT \* FROM depositor;

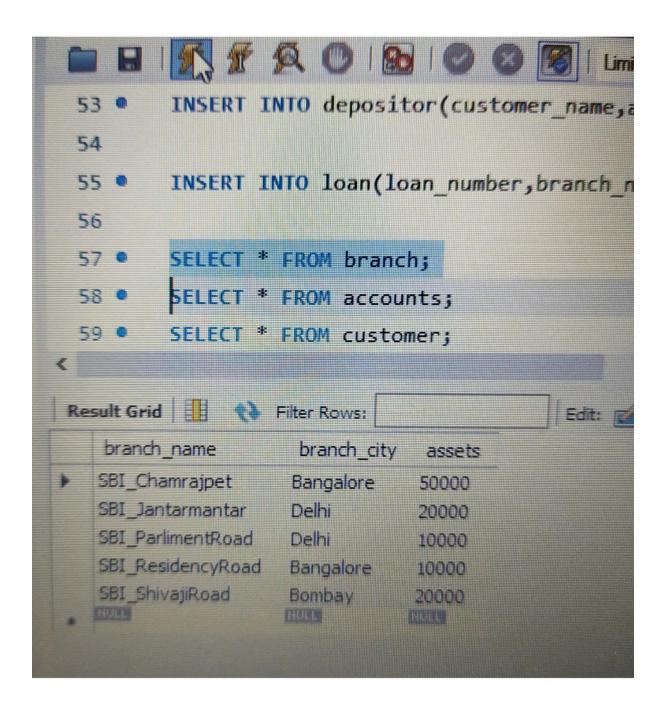
SELECT \* FROM loan;

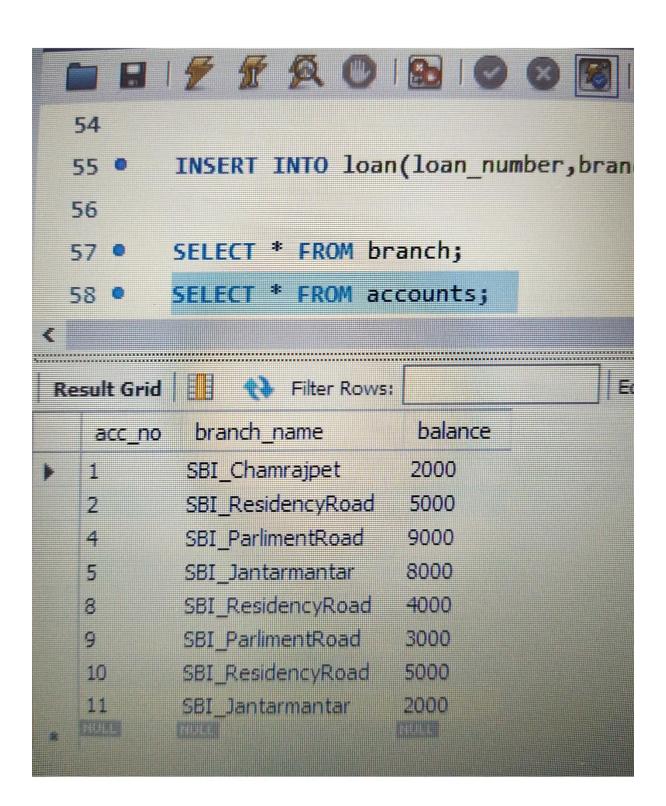
SELECT \* FROM customer WHERE customer\_name IN(SELECT customer\_name FROM depositor group by customer\_name having COUNT(customer\_name)>=2);

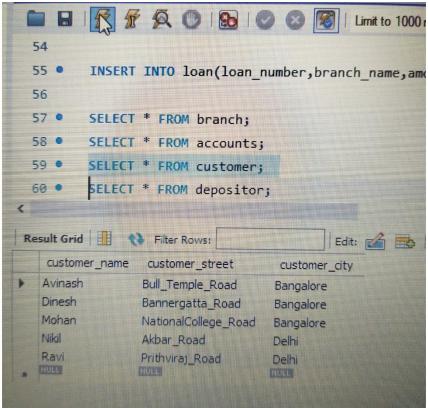
SELECT d.customer\_name FROM accounts a, depositor d,branch b
WHERE d.acc\_no=a.acc\_no AND b.branch\_name=a.branch\_name AND b.branch\_city="Delhi" GROUP BY d.customer\_name having count(distinct b.branch\_name)=(SELECT COUNT(branch\_name) FROM branch WHERE branch\_city="Delhi");

DELETE FROM ACCOUNTS WHERE branch\_name IN(SELECT branch\_name FROM BRANCH WHERE branch city='Bombay');

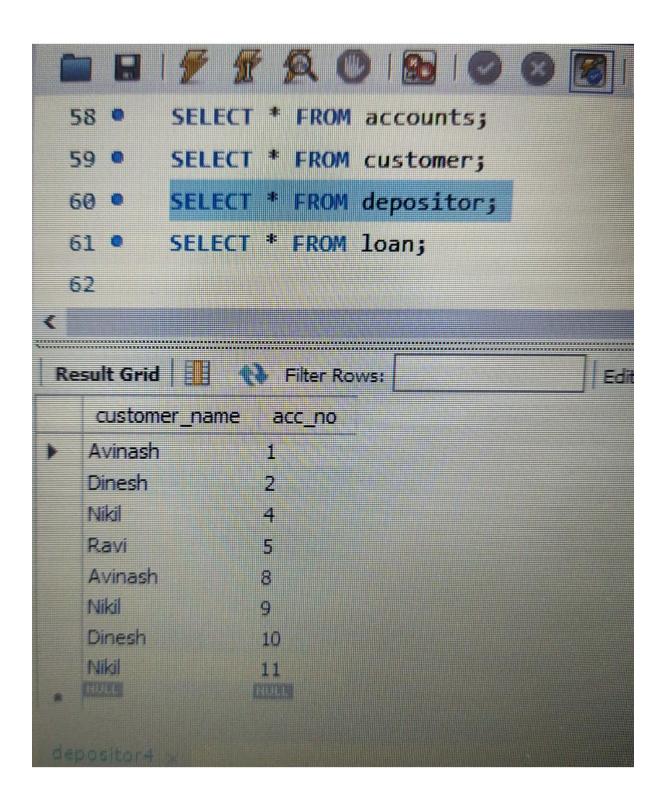
**Output:** 

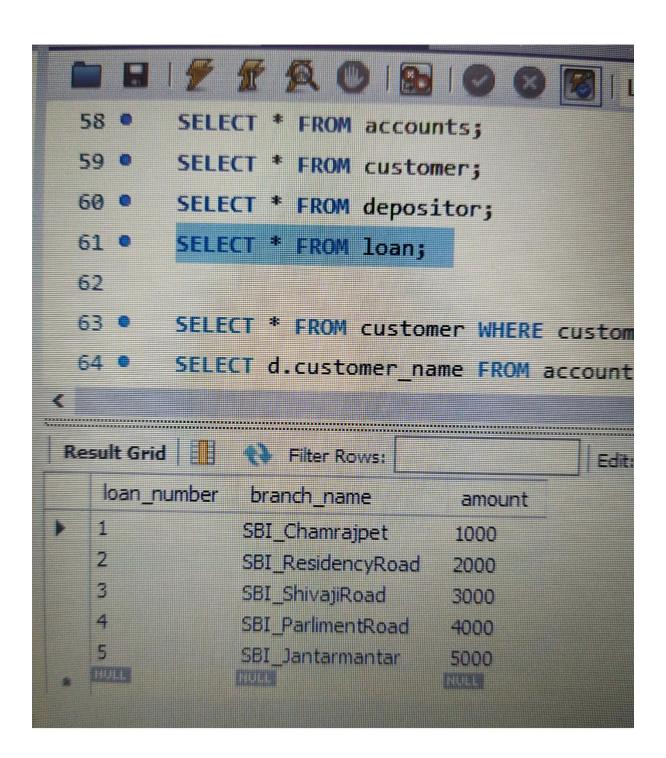


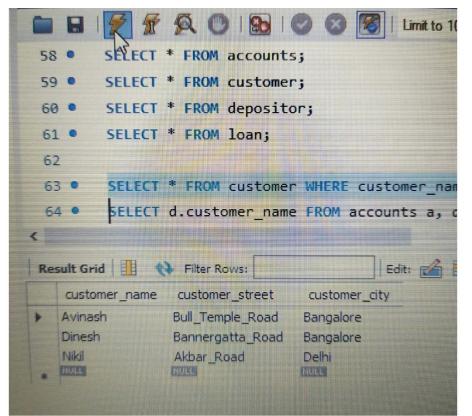




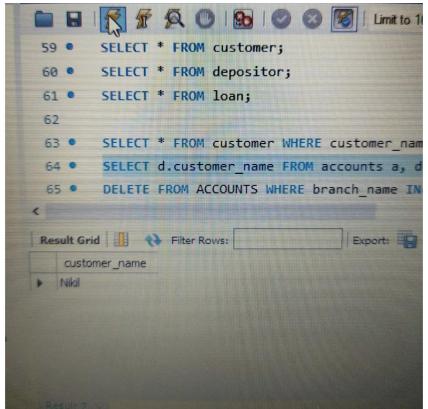
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