

DBMS LAB 2 :-

```
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),
```

```
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 loan
( loan_number INT,
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,assets) VALUES
('SBI_Chamrajpet','Bangalore',50000),('SBI_ResidencyRoad','Bangalore',10000),('SBI_ShivajiR
oad','Bombay',20000),('SBI_ParlimentRoad','Delhi',10000),('SBI_Jantarmentar','Delhi',20000)
;

INSERT INTO accounts(acc_no,branch_name,balance) VALUES
(1,'SBI_Chamrajpet',2000),(2,'SBI_ResidencyRoad',5000),(3,'SBI_ShivajiRoad',6000),(4,'SBI_P
arlimentRoad',9000),(5,'SBI_Jantarmentar',8000),(6,'SBI_ShivajiRoad',4000),(8,'SBI_Residenc
yRoad',4000),(9,'SBI_ParlimentRoad',3000),(10,'SBI_ResidencyRoad',5000),(11,'SBI_Jantarm
antar',2000);

INSERT INTO customer(customer_name,customer_street,customer_city) VALUES
('Avinash','Bull_Temple_Road','Bangalore'),('Dinesh','Bannerghatta_Road','Bangalore'),('Moh
an','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,amount) VALUES
(1,'SBI_Chamrajpet',1000),(2,'SBI_ResidencyRoad',2000),(3,'SBI_ShivajiRoad',3000),(4,'SBI_P
arlimentRoad',4000),(5,'SBI_Jantarmentar',5000);

SELECT * FROM branch;

```

```
$sqlite3 database.sdb < main.sql
SBI_Chamrajpet|Bangalore|50000.0
SBI_ResidencyRoad|Bangalore|10000.0
SBI_ShivajiRoad|Bombay|20000.0
SBI_ParlimentRoad|Delhi|10000.0
SBI_Jantarmantar|Delhi|20000.0
```

SELECT * FROM accounts;

```
$sqlite3 database.sdb < main.sql
1|SBI_Chamrajpet|2000.0
2|SBI_ResidencyRoad|5000.0
3|SBI_ShivajiRoad|6000.0
4|SBI_ParlimentRoad|9000.0
5|SBI_Jantarmantar|8000.0
6|SBI_ShivajiRoad|4000.0
8|SBI_ResidencyRoad|4000.0
9|SBI_ParlimentRoad|3000.0
10|SBI_ResidencyRoad|5000.0
11|SBI_Jantarmantar|2000.0
```

SELECT * FROM customer;

```
$sqlite3 database.sdb < main.sql
Avinash|Bull_Temple_Road|Bangalore
Dinesh|Bannerghatta_Road|Bangalore
Mohan|NationalCollege_Road|Bangalore
Nikil|Akbar_Road|Delhi
Ravi|Prithviraj_Road|Delhi
```

SELECT * FROM depositor;

```
$sqlite3 database.sdb < main.sql
Avinash|1
Dinesh|2
Nikil|4
Ravi|5
Avinash|8
Nikil|9
Dinesh|10
Nikil|11
```

```
SELECT * FROM loan;
```

```
$sqlite3 database.sdb < main.sql
1|SBI_Chamrajpet|1000.0
2|SBI_ResidencyRoad|2000.0
3|SBI_ShivajiRoad|3000.0
4|SBI_ParlimentRoad|4000.0
5|SBI_Jantarmantar|5000.0
```

```
SELECT d.customer_name FROM accounts a, depositor d WHERE d.acc_no=a.acc_no AND
a.branch_name="SBI_ResidencyRoad" GROUP BY d.customer_name having
count(d.customer_name)>=2);
```

```
Avinash
Dinesh

[Program exited with exit code 0]
```

```
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");
```

```
Nikil

[Program exited with exit code 0]
```

```
DELETE FROM ACCOUNTS WHERE branch_name IN(SELECT branch_name FROM BRANCH WHERE
branch_city='Bombay');
```

```
1|SBI_Chamrajpet|2000.0
2|SBI_ResidencyRoad|5000.0
4|SBI_ParlimentRoad|9000.0
5|SBI_Jantarmentar|8000.0
8|SBI_ResidencyRoad|4000.0
9|SBI_ParlimentRoad|3000.0
10|SBI_ResidencyRoad|5000.0
11|SBI_Jantarmentar|2000.0
```

```
[Program exited with exit code 0]
```