

Date \_\_\_/\_\_\_/\_\_\_ week-3

(Saathi)

create database bank-database;  
use bank-database;

create table branch (  
branch-name varchar(30),  
branch-city varchar(30),  
assets real,  
primary key(branch-name));

create table loan-bank-customer (  
customer-name varchar(20),  
customer-street varchar(20),  
customer-city varchar(15),  
primary key(customer-name));

create table loan (  
loan-no int,  
branch-name varchar(20),  
amount real,  
primary key(loan-no),  
foreign key(branch-name) references  
branch(branch-name)  
on update cascade on delete cascade  
);

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(Saathi)

create table bank-account (  
accno-int,  
branch-name varchar(20),  
balance real,  
primary key(accno),  
foreign key(branch-name) references  
branch(branch-name)  
on update cascade on delete cascade);

create table depositor (  
customer-name varchar(20),  
accno-int,  
foreign key(customer-name) references bank-customer  
(customer-name)  
on update cascade on delete cascade,  
foreign key(accno) references bank-account(accno)  
on update cascade on delete cascade);

insert

branch-name	branch-city	assets
sbi-chamrajpet	bangalore	50000
sbi-jantarMantar	delhi	20000
sbi-parliamentRoad	delhi	10000
sbi-residencyRoad	bangalore	10000
sbi-ShivajiRoad	bombay	20000

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bank-customer

customer-name	customer-street	customer-city
avinash	bul-temple-road	bangalore
dinesh	barnagatta-road	bangalore
mohan	nationalcollege-road	bangalore
nikil	akbar-road	delhi
navi	pothuviraj-road	delhi

depositor

customer-name	acc-no
avinash	1
dinesh	2
nikil	4
navi	5
avinash	8
nikil	9
dinesh	10
nikil	11

loan-no	branch-name	amount
1	sbi-chamrajpet	1000
2	sbi-residency road	2000
3	sbi-shivaji road	3000
4	sbi-parliamentRoad	4000
5	sbi-jantarMantar	5000

## QUERY 1

1) update branch set assets = 0.5  
where branch-name = 'sbi-chamrajpet';  
Select \* from branch;

2) update branch set assets = 0.2  
where branch-name = 'sbi-jantarMantar';

update branch set assets = 0.1  
where branch-name = 'sbi-parliamentRoad';

update branch set assets = 0.1  
where branch-name = 'sbi-residencyRoad';

update branch set assets = 0.2  
where branch-name = 'sbi-shivajiRoad';

alter table branch  
rename column assets to assets-in-lakhs;  
Select \* from branch;

branch_name	branch_city	assets_in_lakhs
sbi_chamrajpet	bangalore	0.5
sbi_jantarMantar	delhi	0.2
sbi_parliamentRoad	delhi	0.1
sbi_residencyRoad	bangalore	0.1
sbi_shivajiRoad	bombay	0.2
NULL	NULL	NULL

## QUERY 2

```
2 select d.customer_name as CUSTOMER_NAME  
  from bankAccount b, depositor d  
  where b.branch_name='sbi_residencyRoad' and b.accno  
        = d.accno  
        group by d.customer_name  
        having count(d.accno) >= 2;
```

The screenshot shows a database management tool interface with a query editor and a result grid. The query editor contains a series of SQL statements, with the final statement highlighted in blue. The result grid at the bottom shows the output of the query, with a single row containing the customer name 'dinech'.

```
1bm21cs150lab3*  bankdatabase* x  bankaccount  bankcustomer  branch  depositor  loan  branch  
Limit to 100 rows  
102 • select * from branch;  
103  
104 • update branch set assets=0.1  
105 where branch_name='sbi_residencyRoad';  
106 • select * from branch;  
107  
108 • update branch set assets=0.2  
109 where branch_name='sbi_shivajiRoad';  
110 • select * from branch;  
111  
112 • alter table branch  
113 rename column assets to assets_in_lakhs;  
114 • select * from branch;  
115  
116 • select d.customer_name as CUSTOMER_NAME  
117 from bankAccount b, depositor d  
118 where b.branch_name='sbi_residencyRoad' and b.accno=d.accno  
119 group by d.customer_name  
120 having count(d.accno) >= 2;  
121  
Result Grid | Filter Rows: | Export: | Wrap Cell Content: |  
CUSTOMER_NAME  
dinech
```



### QUERY 3

```
3 Create view sum-of-loan  
as select branch-name, sum(balance)  
from bankAccount  
group by branch-name;  
  
select* from sum-of-loan;
```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	branch_name	sum(balance)			
▶	sbi_chamrajpet	2000			
	sbi_jantarMantar	10000			
	sbi_parliamentRoad	12000			
	sbi_residencyRoad	14000			
	sbi_shivajiRoad	10000			