

```
create database 1BM21CS054_bankDb;
```

```
use 1BM21CS054_bankDb;
```

```
create table branch(  
branch_name varchar(20),  
branch_city varchar(10),  
assets real,  
PRIMARY KEY(branch_name)  
);
```

```
create table bankCustomer(  
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  
);
```

```
create table bankAccount(  
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 depositer(  
  
customer_name varchar(20),  
  
accno int,  
  
FOREIGN KEY(customer_name) REFERENCES bankCustomer(customer_name)  
  
ON UPDATE CASCADE ON DELETE CASCADE,  
  
FOREIGN KEY(accno) REFERENCES bankAccount(accno)  
  
ON UPDATE CASCADE ON DELETE CASCADE  
  
);
```

```
insert into branch values('sbi_chamrajpet','bangalore',50000);  
insert into branch values('sbi_residencyRoad','bangalore',10000);  
insert into branch values('sbi_shivajiRoad','bombay',20000);  
insert into branch values('sbi_parliamentRoad','delhi',10000);  
insert into branch values('sbi_jantarMantar','delhi',20000);
```

```
select * from branch;
```

```
insert into bankAccount values(1,'sbi_chamrajpet',2000);  
insert into bankAccount values(2,'sbi_residencyRoad',5000);  
insert into bankAccount values(3,'sbi_shivajiRoad',6000);  
insert into bankAccount values(4,'sbi_parliamentRoad',9000);  
insert into bankAccount values(5,'sbi_jantarMantar',8000);  
insert into bankAccount values(6,'sbi_shivajiRoad',4000);  
insert into bankAccount values(8,'sbi_residencyRoad',4000);
```

```
insert into bankAccount values(9,'sbi_parliamentRoad',3000);
```

```
insert into bankAccount values(10,'sbi_residencyRoad',5000);
```

```
insert into bankAccount values(11,'sbi_jantarMantar',2000);
```

```
select*from bankaccount
```

```
insert into bankCustomer values('avinash','bull_temple_road','bangalore');
```

```
insert into bankCustomer values('dinesh','bannergatta_road','bangalore');
```

```
insert into bankCustomer values('mohan','nationalCollege_road','bangalore');
```

```
insert into bankCustomer values('nikil','akbar_road','delhi');
```

```
insert into bankCustomer values('ravi','prithviraj_road','delhi');
```

```
select*from bankcustomer
```

```
insert into depositer values('avinash',1);
```

```
insert into depositer values('dinesh',2);
```

```
insert into depositer values('nikil',4);
```

```
insert into depositer values('ravi',5);
```

```
insert into depositer values('avinash',8);
```

```
insert into depositer values('nikil',9);
```

```
insert into depositer values('dinesh',10);
```

```
insert into depositer values('nikil',11);
```

```
select * from depositer;
```

```
insert into loan values(1,'sbi_chamrajpet',1000);
```

```
insert into loan values(2,'sbi_residencyRoad',2000);
```

```
insert into loan values(3,'sbi_shivajiRoad',3000);  
insert into loan values(4,'sbi_parliamentRoad',4000);  
insert into loan values(5,'sbi_jantarMantar',5000);
```

```
select * from loan;
```

```
select branch_name, concat(assets/100000)as assets_in_lakhs  
from branch;
```

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

```
create view sum_of_loan  
as select branch_name, sum(balance)  
from bankAccount  
group by branch_name;
```

```
select * from sum_of_loan;
```

WEEK 3

To do:

```
48 • insert into branch values('sbi_chamrajpet','bangalore',50000);
49 • insert into branch values('sbi_residencyRoad','bangalore',10000);
50 • insert into branch values('sbi_shivajiRoad','bombay',20000);
51 • insert into branch values('sbi_parliamentRoad','delhi',10000);
52 • insert into branch values('sbi_jantarMantar','delhi',20000);
53
54 • select * from branch;
```

Result Grid	Filter Rows:	Edit:	Export/Import:
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	
NULL	NULL	NULL	

```
56 • insert into bankAccount values(1,'sbi_chamrajpet',2000);
57 • insert into bankAccount values(2,'sbi_residencyRoad',5000);
58 • insert into bankAccount values(3,'sbi_shivajiRoad',6000);
59 • insert into bankAccount values(4,'sbi_parliamentRoad',9000);
60 • insert into bankAccount values(5,'sbi_jantarMantar',8000);
61 • insert into bankAccount values(6,'sbi_shivajiRoad',4000);
62 • insert into bankAccount values(8,'sbi_residencyRoad',4000);
63 • insert into bankAccount values(9,'sbi_parliamentRoad',3000);
64 • insert into bankAccount values(10,'sbi_residencyRoad',5000);
65 • insert into bankAccount values(11,'sbi_jantarMantar',2000);
66
67
68 • select * from bankAccount;
```

Result Grid	Filter Rows:	Edit:	Export/Import:
accno	branch_name	balance	
1	sbi_chamrajpet	2000	
2	sbi_residencyRoad	5000	
3	sbi_shivajiRoad	6000	
4	sbi_parliamentRoad	9000	
5	sbi_jantarMantar	8000	
6	sbi_shivajiRoad	4000	
8	sbi_residencyRoad	4000	
9	sbi_parliamentRoad	3000	
10	sbi_residencyRoad	5000	
11	sbi_jantarMantar	2000	

```

70 ❌ insert into bankCustomer values('avinash','bull_temple_road','bangalore');
71 • insert into bankCustomer values('dinesh','bannerghatta_road','bangalore');
72 • insert into bankCustomer values('mohan','nationalCollege_road','bangalore');
73 • insert into bankCustomer values('nikil','akbar_road','delhi');
74 • insert into bankCustomer values('ravi','prithviraj_road','delhi');
75
76
77
78 • select * from bankCustomer
79
80 ❌ insert into depositer values('avinash',1);

```

Result Grid			
Filter Rows:			
Edit: Export/Import: Wrap Cell Content:			
	customer_name	customer_street	customer_city
▶	avinash	bull_temple_road	bangalore
	dinesh	bannerghatta_road	bangalore
	mohan	nationalCollege_road	bangalore
	nikil	akbar_road	delhi
	ravi	prithviraj_road	delhi
*	NULL	NULL	NULL

```

80 ❌ insert into depositer values('avinash',1);
81 • insert into depositer values('dinesh',2);
82 • insert into depositer values('nikil',4);
83 • insert into depositer values('ravi',5);
84 • insert into depositer values('avinash',8);
85 • insert into depositer values('nikil',9);
86 • insert into depositer values('dinesh',10);
87 • insert into depositer values('nikil',11);
88
89
90 • select * from depositer;
91
92 • insert into loan values(1,'chi_champainet',1000);

```

Result Grid		
Filter Rows:		
Export: Wrap Cell Content:		
	customer_name	accno
▶	avinash	1
	dinesh	2
	nikil	4
	ravi	5
	avinash	8
	nikil	9
	dinesh	10
	nikil	11

```

92 • insert into loan values(1,'sbi_chamrajpet',1000);
93 • insert into loan values(2,'sbi_residencyRoad',2000);
94 • insert into loan values(3,'sbi_shivajiRoad',3000);
95 • insert into loan values(4,'sbi_parliamentRoad',4000);
96 • insert into loan values(5,'sbi_jantarMantar',5000);
97
98
99 • select * from loan;
100
101 • select branch_name, concat(assets/100000)as assets_in_lakhs

```

Result Grid			
Filter Rows:			
Edit: Export/Import:			
loan_no	branch_name	amount	
1	sbi_chamrajpet	1000	
2	sbi_residencyRoad	2000	
3	sbi_shivajiRoad	3000	
4	sbi_parliamentRoad	4000	
5	sbi_jantarMantar	5000	
NULL	NULL	NULL	

```

100
101 • select branch_name, concat(assets/100000)as assets_in_lakhs
102 from branch;
103
104

```

Result Grid		
Filter Rows:		
Export: Wrap Cell Content:		
branch_name	assets_in_lakhs	
sbi_chamrajpet	0.5	
sbi_jantarMantar	0.2	
sbi_parliamentRoad	0.1	
sbi_residencyRoad	0.1	
sbi_shivajiRoad	0.2	

```

104
105 • select d.customer_name as CUSTOMER_NAME
106 from bankAccount b, depositor d
107 where b.branch_name='sbi_residencyRoad' and b.accno=d.accno
108 group by d.customer_name
109 having count(d.accno)>=2;
110

```

Result Grid			Filter Rows: <input type="text"/>	Export:	Wrap Cell Content:
	CUSTOMER_NAME				
▶	dinesh				

```

111 • create view sum_of_loan
112 as select branch_name, sum(balance)
113 from bankAccount
114 group by branch_name;
115
116 • select * from sum_of_loan;

```

Result Grid			Filter Rows: <input type="text"/>	Export:
	branch_name	sum(balance)		
▶	sbi_chamrajpet	2000		
	sbi_jantarMantar	10000		
	sbi_parliamentRoad	12000		
	sbi_residencyRoad	14000		
	sbi_shivajiRoad	10000		