

```
create database banking;
```

```
/*BRANCH (branch-name: String, branch-city: String, assets: real)
```

```
ACCOUNTS (accno: int, branch-name: String, balance: real)
```

```
DEPOSITOR (customer-name: String, customer-street: String, customer-city: String)
```

```
LOAN (loan-number: int, branch-name: String, amount: real)
```

```
BORROWER (customer-name: String, loan-number: int) */
```

```
use banking;
```

```
create table BRANCH(branch_name varchar(20),branch_city varchar(10),assets real,primary  
key(branch_name));
```

```
insert into BRANCH values('SBI_Chamrajpet','Bangalore',50000);
```

```
insert into BRANCH values('SBI_Residency road','Bangalore',10000);
```

```
insert into BRANCH values('SBI_shivajiroad','Bombay',20000);
```

```
insert into BRANCH values('SBI_parlimentroad','Delhi',10000);
```

```
insert into BRANCH values('SBI_jantarmentar','Delhi',20000);
```

```
commit;
```

```
select * from BRANCH;
```

```
create table ACCOUNTS(accno integer,branch_name varchar(20),balance real,primary  
key(accno),foreign key(branch_name) references BRANCH(branch_name));
```

```
insert into ACCOUNTS values('1','SBI_Chamrajpet','2000');
```

```
insert into ACCOUNTS values('2','SBI_Residency road','5000');
```

```
insert into ACCOUNTS values('3','SBI_shivajiroad','6000');
```

```
insert into ACCOUNTS values('4','SBI_parlimentroad','9000');
```

```
insert into ACCOUNTS values('5','SBI_jantarmentar','8000');
```

```
insert into ACCOUNTS values('6','SBI_shivajiroad','4000');
```

```
insert into ACCOUNTS values('8','SBI_Residency road','4000');
```

```
insert into ACCOUNTS values('9','SBI_parlimentroad','3000');
```

```
insert into ACCOUNTS values('10','SBI_Residency road','5000');
```

```
insert into ACCOUNTS values('11','SBI_jantarmentar','2000');
```

```
commit;
```

```
select * from ACCOUNTS;
```

```
create table BANKCUST(customername varchar(20),customerstreet varchar(30),customercity  
varchar(30),primary key(customername));
```

```
insert into BANKCUST values('AVINASH','Bulltemple','Bangalore');
```

```
insert into BANKCUST values('dinesh','banerghata','Bangalore');
```

```
insert into BANKCUST values('mohan','mgroad','Bangalore');
```

```
insert into BANKCUST values('nikhil','churchstreeet','Delhi');
```

```
insert into BANKCUST values('ravi','akbarroad','Delhi');
```

```
commit;
```

```
select * from BANKCUST;
```

```
create table DEPOSIT(customername varchar(20),accno integer,primary  
key(accno,customername),foreign key(accno) references ACCOUNTS(accno),foreign  
key(customername) references BANKCUST(customername));
```

```
insert into DEPOSIT values('AVINASH',1);
```

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

```
insert into DEPOSIT values('nikhil',4);
```

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

```
insert into DEPOSIT values('AVINASH',8);
```

```
insert into DEPOSIT values('nikhil',9);
```

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

```
insert into DEPOSIT values('nikhil',11);
```

```
commit;
```

```
select * from DEPOSIT;
```

```
CREATE TABLE LOAN(loanno int,branch_name varchar(20),amt real,primary key(loanno),foreign  
key(branch_name) references BRANCH(branch_name));
```

```
insert into LOAN values(1,'SBI_Chamrajpet',1000);
```

```
insert into LOAN values(2,'SBI_Residency road',2000);
```

```
insert into LOAN values(3,'SBI_shivajiroad',3000);
```

```
insert into LOAN values(4,'SBI_parlimentroad',4000);
```

```
insert into LOAN values(5,'SBI_jantarmentar',5000);
```

```
commit;
```

```
select * from LOAN;
```

/*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). */

/*3*/

```
select customername from DEPOSIT d,ACCOUNTS a
where d.accno=a.accno
group by customername
having count(d.customername) >=2;
```

/*5*/

```
delete from ACCOUNTS
where branch_name IN(SELECT branch_name FROM branch WHERE branch_city='Bombay');
Select * from ACCOUNTS;
```

/*4*/

```
select d.customername from DEPOSIT d,BRANCH b,ACCOUNTS a
where b.branch_name=a.branch_name
AND a.accno=d.accno
and branch_city='Delhi'
group by d.customername
HAVING COUNT(distinct b.branch_name)=(
    SELECT COUNT(branch_name)
    FROM branch
    WHERE branch_city='Delhi');
```

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Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

Information

No object selected

Object Info Session

SQL Editor

```

9
10 • create table BRANCH(branch_name varchar(20),branch_city varchar(10),assets real,primary key(branch_name));
11 • insert into BRANCH values('SBI_Channajpet','Bangalore',50000);
12 • insert into BRANCH values('SBI_Residency road','Bangalore',10000);
13 • insert into BRANCH values('SBI_Shivajiroad','Bombay',20000);
14 • insert into BRANCH values('SBI_Parliamentroad','Delhi',10000);
15 • insert into BRANCH values('SBI_Jantarmantar','Delhi',20000);
16 • commit;
17 • select * from BRANCH;

```

Result Grid

branch_name	branch_city	assets
SBI_Channajpet	Bangalore	50000
SBI_Jantarmantar	Delhi	20000
SBI_Parliamentroad	Delhi	10000
SBI_Residency road	Bangalore	10000
SBI_Shivajiroad	Bombay	20000

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	10:59:39	select * from BRANCH LIMIT 0, 1000	Error Code: 1046. No database selected Select the default DB to be used by double-clicking its name in the SCH...	0.000 sec
2	10:59:46	use banking	0 row(s) affected	0.000 sec
3	10:59:55	select * from BRANCH LIMIT 0, 1000	5 row(s) returned	0.015 sec / 0.000 sec

SQLAdditions

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Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

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No object selected

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SQL Editor

```

24 • insert into ACCOUNTS values('6','SBI_Shivajiroad','4000');
25 • insert into ACCOUNTS values('8','SBI_Residency road','4000');
26 • insert into ACCOUNTS values('9','SBI_Parliamentroad','3000');
27 • insert into ACCOUNTS values('10','SBI_Residency road','5000');
28 • insert into ACCOUNTS values('11','SBI_Jantarmantar','2000');
29 • commit;
30 • select * from ACCOUNTS;
31 • create table BANKCUST(customername varchar(20),customerstreet varchar(30),customercity varchar(30),primary key(customername));
32 • insert into BANKCUST values('AVINASH','Bullemple','Bangalore');

```

Result Grid

branch_name	branch_city	assets
SBI_Channajpet	Bangalore	50000
SBI_Jantarmantar	Delhi	20000
SBI_Parliamentroad	Delhi	10000
SBI_Residency road	Bangalore	10000
SBI_Shivajiroad	Bombay	20000

Output

Action Output

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File Edit View Query Database Server Tools Scripting Help

Navigator

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

Information

No object selected

Object Info Session

SQL Editor

```

36 • insert into BANKCUST values('ravi','akbarroad','delhi');
37 •
38 • select * from BANKCUST;
39 • create table DEPOSIT(customername varchar(20),accno integer,primary key(accno,customername),foreign key(accno) references ACCOUNTS(accno),fo
40 •
41 • insert into DEPOSIT values('AVINASH',1);
42 • insert into DEPOSIT values('dinesh',2);
43 • insert into DEPOSIT values('nikhil',4);
44 • insert into DEPOSIT values('ravi',5);

```

Result Grid

customername	customerstreet	customercity
AVINASH	Bultemple	Bangalore
dinesh	banerghata	Bangalore
mohan	mrgoad	Bangalore
nikhil	churdstreet	Delhi
ravi	akbarroad	Delhi

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	10:59:39	select * from BRANCH LIMIT 0, 1000	Error Code: 1046. No database selected Select the default DB to be used by double-clicking its name in the SCH...	0.000 sec
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3	10:59:55	select * from BRANCH LIMIT 0, 1000	5 row(s) returned	0.015 sec / 0.000 sec
4	11:00:16	select * from BANKCUST LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

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Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

Information

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Object Info Session

SQL Editor

```

45 • insert into DEPOSIT values('AVINASH',8);
46 • insert into DEPOSIT values('nikhil',9);
47 • insert into DEPOSIT values('dinesh',10);
48 • insert into DEPOSIT values('nikhil',11);
49 • commit;
50 • select * from DEPOSIT;
51 • CREATE TABLE LOAN(loanno int,branch_name varchar(20),amt real,primary key(loanno),foreign key(branch_name) references BRANCH(branch_name));
52 • insert into LOAN values(1,'SBI_Chemrajpet',1000);
53 • insert into LOAN values(2,'SBI_Residency road',2000);

```

Result Grid

customername	accno
AVINASH	1
AVINASH	8
dinesh	2
dinesh	10
nikhil	4
nikhil	9
nikhil	11

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	10:59:39	select * from BRANCH LIMIT 0, 1000	Error Code: 1046. No database selected Select the default DB to be used by double-clicking its name in the SCH...	0.000 sec
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3	10:59:55	select * from BRANCH LIMIT 0, 1000	5 row(s) returned	0.015 sec / 0.000 sec
4	11:00:16	select * from BANKCUST LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
5	11:00:24	select * from DEPOSIT LIMIT 0, 1000	8 row(s) returned	0.000 sec / 0.000 sec

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Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

Information

No object selected

Object Info Session

SQL Editor

```

54 insert into LOAN values(3,'SBI_shivajiroad',3000);
55 insert into LOAN values(4,'SBI_parliamentroad',4000);
56 insert into LOAN values(5,'SBI_jantarmantra',5000);
57 commit;
58 select * from LOAN;
59 /*Find all the customers who have at least two accounts at the Main branch (ex.
60 SBI_ResidencyRoad).
61 iv. Find all the customers who have an account at all the branches located in a
62 specific city (Ex. Delhi).

```

Result Grid

loanno	branch_name	amt
1	SBI_Chamrapet	1000
2	SBI_Residency road	2000
3	SBI_shivajiroad	3000
4	SBI_parliamentroad	4000
5	SBI_jantarmantra	5000

LOAN 4 x

Output

Action Output

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5	11:00:24	select * from DEPOSIT LIMIT 0, 1000	8 row(s) returned	0.000 sec / 0.000 sec
6	11:00:38	select * from LOAN LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

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MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

Information

No object selected

Object Info Session

SQL Editor

```

63 v. Demonstrate how you delete all account tuples at every branch located in
64 a specific city (Ex. Bombay). */
65 /**/
66 select customername from DEPOSIT d,ACCOUNTS a
67 where d.accto=a.accto
68 group by customername
69 having count(d.customername) >=2;
70 /**/
71 delete from ACCOUNTS

```

Result Grid

customername
AVDIASH
dhresh
nikhil

Result 5 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	10:59:39	select * from BRANCH LIMIT 0, 1000	Error Code: 1046. No database selected Select the default DB to be used by double-clicking its name in the SCH...	0.000 sec
2	10:59:46	use banking	0 row(s) affected	0.000 sec
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4	11:00:16	select * from BANKCUST LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
5	11:00:24	select * from DEPOSIT LIMIT 0, 1000	8 row(s) returned	0.000 sec / 0.000 sec
6	11:00:38	select * from LOAN LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
7	11:01:55	select customername from DEPOSIT d,ACCOUNTS a where d.accto=a.accto group by customername having ...	3 row(s) returned	0.000 sec / 0.000 sec

SQLAdditions

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MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

Information

No object selected

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#	Time	Action	Message	Duration / Fetch
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6	11:00:38	select * from LOAN LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
7	11:01:55	select customername from DEPOSIT d,ACCOUNTS a where d.accto=a.accto group by customername having ...	3 row(s) returned	0.000 sec / 0.000 sec
8	11:02:14	delete from ACCOUNTS where branch_name IN(SELECT branch_name FROM branch WHERE branch_city='B...	0 row(s) affected	0.000 sec
9	11:02:14	Select * from ACCOUNTS LIMIT 0, 1000	8 row(s) returned	0.000 sec / 0.000 sec

Result Grid

accto	branch_name	balance
1	SBI_Chemrapet	2000
2	SBI_Residency road	5000
4	SBI_parliament road	9000
5	SBI_jantarantar	8000
8	SBI_Residency road	4000
9	SBI_parliament road	3000
10	cit Basdevan road	6000

ACCOUNTS 6 x

SQLAdditions

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MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

Information

No object selected

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5	11:00:24	select * from DEPOSIT LIMIT 0, 1000	8 row(s) returned	0.000 sec / 0.000 sec
6	11:00:38	select * from LOAN LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
7	11:01:55	select customername from DEPOSIT d,ACCOUNTS a where d.accto=a.accto group by customername havin...	3 row(s) returned	0.000 sec / 0.000 sec
8	11:02:14	delete from ACCOUNTS where branch_name IN(SELECT branch_name FROM branch WHERE branch_city='B...	0 row(s) affected	0.000 sec
9	11:02:14	Select * from ACCOUNTS LIMIT 0, 1000	8 row(s) returned	0.000 sec / 0.000 sec
10	11:02:25	select d.customername from DEPOSIT d,BRANCH b,ACCOUNTS a where b.branch_name=a.branch_name A...	1 row(s) returned	0.000 sec / 0.000 sec

Result Grid

customername
nikhil

Result 7 x

SQLAdditions

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