```
db<>fiddle MariaDB
                                → 11.4 →
                                                 run
                                                        markdown
                                                                                                         donate feedback about
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        select version();
     version()
     11.4.4-MariaDB-deb12
          create database Bank_24241189;
          use Bank_24241189;
      1 v create table customer (
          customer_id varchar(10) not null,
      3
         customer_name varchar(20) not null,
         customer_street varchar(30),
         customer_city varchar(30),
         primary key (customer_id));
          create table branch (
          branch_name varchar(15),
      3
         branch_city varchar(30),
      4
         assets int,
         primary key (branch_name),
         check (assets >= 0));
      1 v create table account (
         branch_name varchar(15),
      3
         account_number varchar(10) not null,
         balance int,
         primary key (account_number),
         check (balance >= 0));
      1 v create table loan (
          loan_number varchar(10) not null,
          branch_name varchar(15),
          amount int,
          primary key (loan_number));
      1_{\,\scriptscriptstyle \, V} create table depositor (
          customer_id varchar(10) not null,
      3
          account_number varchar(10) not null,
          primary key (customer_id,account_number),
      4
         foreign key (customer_id) references customer(customer_id),
      5
         foreign key (account_number) references account(account_number));
      1 v create table borrower (
         customer_id varchar(10) not null,
         loan_number varchar(10) not null,
         primary key (customer_id, loan_number),
         foreign key (customer_id) references customer(customer_id),
          foreign key (loan_number) references loan(loan_number));
```

```
<del>+</del>
```

```
1 v insert into customer values
     ('C-101', 'Jones', 'Main', 'Harrison'),
     ('C-201', 'Smith', 'North', 'Rye'),
     ('C-211', 'Hayes', 'Main', 'Harrison'),
     ('C-212','Curry', 'North', 'Rye'),
 5
     ('C-215', 'Lindsay', 'Park', 'Pittsfield'),
 6
     ('C-220','Turner', 'Putnam', 'Stamford'),
 7
     ('C-222', 'Williams', 'Nassau', 'Princeton'),
 8
     ('C-225','Adams', 'Spring', 'Pittsfield'),
 9
     ('C-226','Johnson', 'Alma', 'Palo Alto'),
10
11
     ('C-233','Glenn', 'Sand Hill', 'Woodside'),
     ('C-234', 'Brooks', 'Senator', 'Brooklyn'),
12
     ('C-255','Green', 'Walnut', 'Stamford');
13
14
    , insert into branch values
     ('Downtown', 'Brooklyn',9000000),
15
     ('Redwood', 'Palo Alto',2100000),
16
     ('Perryridge', 'Horseneck',1700000),
17
18
     ('Mianus', 'Horseneck',400000),
19
     ('Round Hill', 'Horseneck', 8000000),
     ('Pownal', 'Bennington',300000),
     ('North Town', 'Rye', 3700000),
21
22
     ('Brighton', 'Brooklyn',7100000);
23
24
25 、
    insert into account values
26
     ('Downtown','A-101',500),
27
     ('Mianus','A-215',700),
28
     ('Perryridge','A-102',400),
29
     ('Round Hill','A-305',350),
    ('Brighton','A-201',900),
31
    ('Redwood','A-222',700),
    ('Brighton','A-217',750);
32
33 、
    , insert into loan values
     ('L-17', 'Downtown', 1000),
35
    ('L-23', 'Redwood', 2000),
    ('L-15', 'Perryridge', 1500),
36
     ('L-14', 'Downtown', 1500),
37
    ('L-93', 'Mianus', 500),
38
    ('L-11', 'Round Hill', 900),
39
    ('L-16', 'Perryridge', 1300);
40
41
    insert into depositor values
     ('C-226', 'A-101'),
42
     ('C-201', 'A-215'),
43
     ('C-211', 'A-102'),
44
    ('C-220', 'A-305'),
45
    ('C-226', 'A-201'),
46
47
     ('C-101', 'A-217'),
    ('C-215', 'A-222');
48
49 v insert into borrower values
    ('C-101', 'L-17'),
50
    ('C-201', 'L-23'),
51
    ('C-211', 'L-15'),
52
     ('C-226', 'L-14'),
53
54
    ('C-212', 'L-93'),
     ('C-201', 'L-11'),
55
     ('C-222', 'L-17'),
57
     ('C-225', 'L-16');
58
59
Records: 12 Duplicates: 0 Warnings: 0
```

-

Records: 8 Duplicates: 0 Warnings: 0
Records: 7 Duplicates: 0 Warnings: 0
Records: 7 Duplicates: 0 Warnings: 0
Records: 7 Duplicates: 0 Warnings: 0
Records: 8 Duplicates: 0 Warnings: 0

```
1 ,
    select m.customer_name,z.loan_number from customer m,borrower z,loan k
    where m.customer_id=z.customer_id and z.loan_number=k.loan_number
2
3
      and k.branch_name='Downtown';
customer_name loan_number
Johnson
              L-14
Jones
              L-17
Williams
              L-17
    select m1.customer_name,m2.customer_name,m1.customer_city from customer m1, customer m2
    where m1.customer_city = m2.customer_city and m1.customer_id < m2.customer_id;
3
customer_name customer_city
Jones
              Hayes
                             Harrison
Smith
              Curry
                             Rye
Lindsay
              Adams
                             Pittsfield
Turner
              Green
                             Stamford
    SELECT x.branch_name, SUM(x.balance * 0.04) from account x group by x.branch_name;
branch_name SUM(x.balance * 0.04)
Brighton
                           66.00
Downtown
                           20.00
                           28.00
Mianus
Perryridge
                           16.00
Redwood
                           28.00
Round Hill
                           14.00
    select x.account_number,y.branch_city from account x,branch y
       where x.branch_name = y.branch_name and
3
       (y.branch_city, x.balance) in
4
         (select y.branch_city, max(x.balance) from account x,branch y
5
            where x.branch_name = y.branch_name group by y.branch_city);
 6
account_number branch_city
A-201
               Brooklyn
A-215
               Horseneck
A-222
               Palo Alto
    select k.loan_number, k.amount, m.customer_name from loan k,borrower z,customer m
    where k.loan_number = z.loan_number and z.customer_id = m.customer_id
3
    order by k.amount asc, k.loan_number desc limit 5;
4
```

loan_number	amount	customer_name
L-93	500	Curry
L-11	900	Smith
L-17	1000	Jones
L-17	1000	Williams
L-16	1300	Adams

```
SELECT DISTINCT m.customer_name
   FROM customer m, depositor a, account x, borrower z, loan q
2
   WHERE m.customer_id = a.customer_id
3
     AND a.account_number = x.account_number
4
5
     AND m.customer_id = z.customer_id
     AND z.loan_number = q.loan_number
6
7
     AND x.branch_name = 'Perryridge'
     AND q.branch_name = 'Perryridge';
8
9
```

```
Hayes

1  SELECT m.customer_name, SUM(q.amount)
FROM customer m, borrower z, loan q
WHERE m.customer_id = z.customer_id
AND z.loan_number = q.loan_number
GROUP BY m.customer_id, m.customer_name
HAVING COUNT(*) >= 2;

7  Customer_name SUM(q.amount)
Smith 2900
```

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