Table

```
MariaDB [cse370_a3]> select * from customer;
 customer_id | customer_name | customer_street | customer_city
 C-101
                                Main
                Jones
                                                  Harrison
  C-201
                Smith
                                North
                                                  Rye
  C-211
                Hayes
                                Main
                                                  Harrison
  C-212
                Curry
                                North
                                                  Rye
  C-215
                Lindsay
                                Park
                                                  Pittsfield
  C-220
                Turner
                                Putnam
                                                  Stamford
 C-222
                Williams
                                Nassau
                                                  Princeton
 C-225
                Adams
                                Spring
                                                  Pittsfield
                                                  Palo Alto
 C-226
                Johnson
                                Alma
 C-233
                                Sand Hill
                                                  Woodside
                Glenn
 C-234
                Brooks
                                Senator
                                                  Brooklyn
 C-255
                                Walnut
                                                  Stamford
                Green
12 rows in set (0.001 sec)
MariaDB [cse370_a3]> select * from branch;
  branch_name | branch_city | assets
  Brighton
                Brooklyn
                              7100000
  Downtown
                Brooklyn
                              900000
  Mianus
                Horseneck
                              400000
  North Town
                Rye
                              3700000
  Perryridge
                Horseneck
                              1700000
  Pownal
                Bennington
                              300000
                Palo Alto
  Redwood
                              2100000
  Round Hill
                Horseneck
                              8000000
8 rows in set (0.001 sec)
MariaDB [cse370_a3]> select * from account;
 branch_name | account_number | balance
  Downtown
                                     500
                A-101
  Perryridge
               A-102
                                     400
  Brighton
                A-201
                                     900
  Mianus
                A-215
                                     700
  Brighton
                A-217
                                     750
  Redwood
                A-222
                                     700
  Round Hill
              A-305
 rows in set (0.000 sec)
```

```
MariaDB [cse370_a3] > select * from loan;
 loan_number | branch_name | amount |
 L-11
               Round Hill
                                900
 L-14
               Downtown
                               1500
 L-15
               Perryridge
                               1500
 L-16
               Perryridge
                               1300
 L-17
               Downtown
                               1000
 L-23
               Redwood
                               2000
 L-93
              Mianus
                                500
7 rows in set (0.000 sec)
MariaDB [cse370_a3]> select * from depositor;
| customer_id | account_number |
C-101
              | A-217
 C-201
              | A-215
 C-211
              | A-102
 C-215
               A-222
 C-220
              A-305
 C-226
               A-101
 C-226
              A-201
7 rows in set (0.000 sec)
MariaDB [cse370_a3]> select * from borrower;
| customer_id | loan_number |
              | L-17
| C-101
 C-201
              | L-11
| C-201
              | L-23
 C-211
              | L-15
 C-212
              | L-93
  C-222
               L-17
 C-225
               L-16
 C-226
              | L-14
8 rows in set (0.000 sec)
```

Answer to the question no 1

Query: SELECT C.customer_name, B.loan_number FROM customer C, borrower B, loan L

- -> WHERE C.customer_id=B.customer_id AND B.loan_number=L.loan_number
- -> AND L.branch_name= 'Downtown';

Answer to the question no 2

Query: SELECT C1.customer_name as customer_1, C2.customer_name as customer_2, C1.customer_city as city

- -> FROM customer C1, customer C2
- -> WHERE C1.customer_id != C2.customer_id AND C1.customer_city=C2.customer_city
- -> GROUP BY C1.customer_city;

Answer to the question no 3

Query: SELECT branch_name, SUM(balance*(4/100)) AS total_interest FROM account GROUP BY branch_name;

Answer to the question no 4

Query:

SELECT D.account_number, C.customer_city FROM customer C, depositor D, account A -> WHERE C.customer_id=D.customer_id AND D.account_number=A.account_number AND

-> A.balance= (SELECT MAX(A.balance)) GROUP BY C.customer_city;

Answer to the question no 5



<u>Query:</u> SELECT Y.*FROM (SELECT L.loan_number, L.amount, C.customer_name FROM customer C, loan L, borrower B WHERE C.customer_id=B.customer_id AND B.loan_number=L.loan_number ORDER BY L.amount DESC LIMIT 5) AS Y ORDER BY Y.amount, Y.loan_number DESC;

Answer to the question no 6

```
MariaD8 [cse370_a3]> SELECT C.customer_name FROM Customer C, depositor D, account A, borrower B, loan L WHERE C.customer_id=D.customer_id AND D.account_number=A.account_number AND C.customer_id=B.customer_id A ND B.loan_number=L ND C.customer_id=B.customer_id A ND D.account_number=A.account_number AND C.customer_id=B.customer_id AND D.account_number=A.account_number AND C.customer_id=B.customer_id A ND D.account_number=A.account_number=A.account_number AND C.customer_id=B.customer_id A ND D.account_number=A.account_number AND C.customer_id=B.customer_id A ND D.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_number=A.account_numbe
```

<u>Query:</u> SELECT C.customer_name FROM Customer C, depositor D, account A, borrower B, loan L WHERE C.customer_id=D.customer_id AND D.account_number=A.account_number AND C.customer_id=B.customer_id AND B.loan_number=L.loan_number AND L.branch_name='Perryridge' AND A.account_number IN (SELECT account_number FROM account);

Answer to the question no 7



<u>Query:</u> SELECT C.customer_name,SUM(L.amount) AS total_loan FROM customer C, borrower B, loan L WHERE C.customer_id=B.customer_id AND B.loan_number=L.loan_number GROUP BY C.customer_name HAVING COUNT(B.loan_number)>=2;