LAB 05

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Q1.

Q2.

Q3.

Q4.

Q5.

Q6.

Q7.

Q8.

```
mysql> select * from loan natural join borrower;
                branch_name | amount |
| loan_number |
                                        customer_name
                Round Hill
                                  900
 L-11
                                        Smith
 L-15
                Perryridge
                                 1500
                                        Hayes
 L-16
                Perryridge
                                 1300
                                        Adams
 L-17
                Downtown
                                 1000
                                         Jones
                                        Williams
 L-17
                                 1000
                Downtown
  L-23
                Redwood
                                 2000
                                         Smith
 L-93
                Mianus
                                  500
                                        Curry
 rows in set (0.01 sec)
```

Q9.

```
mysql> select * from loan inner join borrower
    -> on loan.loan_number = borrower.loan_number;
                                                          loan_number
| loan_number | branch_name
                               amount |
                                         customer_name
  L-11
                 Round Hill
                                   900
                                         Smith
                                                          L-11
                                                          L-15
L-16
  L-15
                 Perryridge
                                  1500
                                         Hayes
  L-16
                 Perryridge
                                  1300
                                         Adams
                 Downtown
                                                          L-17
  L-17
                                  1000
                                         Jones
  L-17
                 Downtown
                                  1000
                                         Williams
                                                          L-17
  L-23
                                                          L-23
                 Redwood
                                  2000
                                         Smith
  L-93
                Mianus
                                   500
                                                          L-93
                                         Curry
 rows in set (0.00 sec)
```

Q10.

```
[mysql> select * from loan natural right outer join borrower;
  loan_number | customer_name | branch_name | amount
  L-11
                 Smith
                                 Round Hill
                                                    900
  L-15
                 Hayes
                                  Perryridge
                                                  1500
  L-16
                 Adams
                                  Perryridge
                                                  1300
                                 Downtown
  L-17
                 Jones
                                                  1000
                 Williams
  L-17
                                 Downtown
                                                  1000
                                                  2000
  L-23
                 Smith
                                  Redwood
  L-93
                                 Mianus
                                                    500
                 Curry
7 rows in set (0.00 sec)
```

Q11.

```
[mysql> select * from loan right outer join borrower using(loan_number);
  loan_number | customer_name |
                                 branch_name |
                                                amount |
  L-11
                 Smith
                                 Round Hill
                                                   900
                                                   1500
  L-15
                 Hayes
                                 Perryridge
  L-16
                 Adams
                                 Perryridge
                                                   1300
                                                   1000
  L-17
                                 Downtown
                 Jones
  L-17
                 Williams
                                 Downtown
                                                   1000
  L-23
                                 Redwood
                 Smith
                                                   2000
  L-93
                 Curry
                                 Mianus
                                                   500
  rows in set (0.00 sec)
```

Q12.

```
mysql> select * from loan natural left outer join borrower;
 loan_number |
                branch_name
                               amount
                                         customer_name
                Round Hill
 L-11
                                  900
                                         Smith
 L-14
                Downtown
                                 1500
                                         NULL
 L-15
                Perryridge
                                 1500
                                         Hayes
 L-16
                Perryridge
                                 1300
                                         Adams
 L-17
                                 1000
                Downtown
                                         Jones
                                         Williams
  L-17
                Downtown
                                 1000
  L-23
                Redwood
                                 2000
                                         Smith
 L-93
                Mianus
                                  500
                                         Curry
8 rows in set (0.00 sec)
```

Q13.

```
[mysql> select * from loan left outer join borrower using (loan_number);
 | loan_number | branch_name
                             | amount |
                                        customer_name
  L-11
                 Round Hill
                                   900
                                         Smith
  L-14
                 Downtown
                                  1500
                                         NULL
  L-15
                                  1500
                 Perryridge
                                         Hayes
  L-16
                 Perryridge
                                  1300
                                         Adams
  L-17
                 Downtown
                                  1000
                                         Jones
  L-17
                 Downtown
                                  1000
                                         Williams
  L-23
                 Redwood
                                  2000
                                         Smith
  L-93
                 Mianus
                                   500
                                         Curry
8 rows in set (0.00 sec)
```

Q14.

```
mysql> select loan_number, customer_name, branch_name, amount from loan left outer join borrower
    -> using (loan_number)
   -> union
    -> select loan_number, customer_name, branch_name, amount from loan right outer join borrower
   -> using(loan_number);
 loan_number | customer_name
                                branch_name | amount |
 L-11
                                Round Hill
                Smith
                                                  900
 L-14
                NULL
                                Downtown
                                                 1500
 L-15
                                Perryridge
                                                 1500
                Hayes
 L-16
                Adams
                                Perryridge
                                                 1300
 L-17
                                                 1000
                                Downtown
                Jones
 L-17
                Williams
                                Downtown
                                                 1000
 L-23
                                Redwood
                                                 2000
                Smith
 L-93
                Curry
                                Mianus
                                                  500
8 rows in set (0.00 sec)
```

Date/ Time operations

1.

2.

3.

```
[mysql> select current_timestamp();
+-----+
| current_timestamp() |
+-----+
| 2022-09-21 16:34:31 |
+-----+
1 row in set (0.00 sec)
```

4.

```
[mysql> select datediff("2017-06-25 09:34:21", "2017-06-15 15:25:35");
+------+
| datediff("2017-06-25 09:34:21", "2017-06-15 15:25:35") |
+------+
| 10 |
+-----+
1 row in set (0.00 sec)
```

6.