

Name: S. M. Rakib Hasan

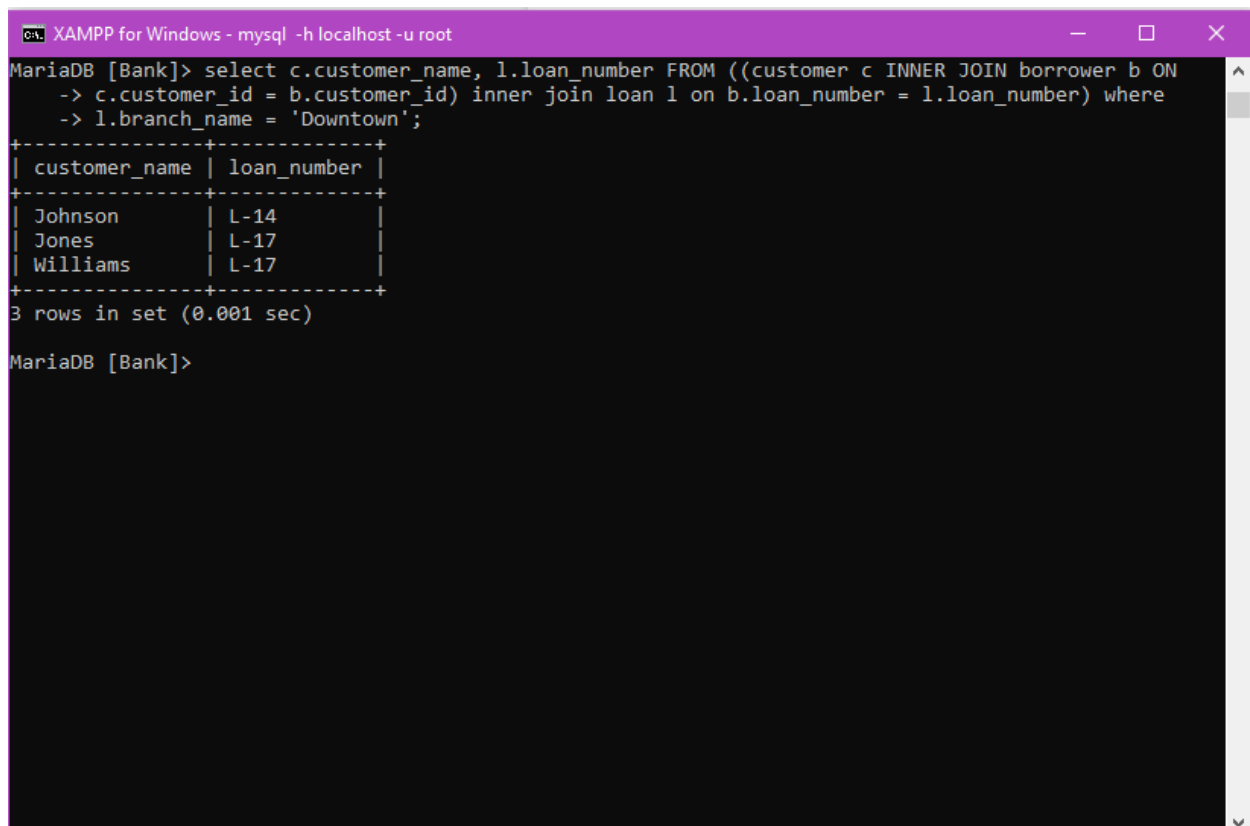
ID: 22241038

Sec: 07

Commands: mysql -h localhost -u root

Task-1

select c.customer_name, l.loan_number from ((customer c inner JOIN borrower b ON
c.customer_id = b.customer_id) inner join loan l on b.loan_number = l.loan_number) where
l.branch_name = 'Downtown';



The screenshot shows a terminal window titled "XAMPP for Windows - mysql -h localhost -u root". The prompt is "MariaDB [Bank]>". The user has entered a SQL query: "select c.customer_name, l.loan_number FROM ((customer c INNER JOIN borrower b ON -> c.customer_id = b.customer_id) inner join loan l on b.loan_number = l.loan_number) where -> l.branch_name = 'Downtown';". The output is a table with two columns: "customer_name" and "loan_number". The table contains three rows: "Johnson | L-14", "Jones | L-17", and "Williams | L-17". Below the table, it says "3 rows in set (0.001 sec)". The prompt "MariaDB [Bank]>" is visible again at the bottom.

```
MariaDB [Bank]> select c.customer_name, l.loan_number FROM ((customer c INNER JOIN borrower b ON  
-> c.customer_id = b.customer_id) inner join loan l on b.loan_number = l.loan_number) where  
-> l.branch_name = 'Downtown';  
+-----+-----+  
| customer_name | loan_number |  
+-----+-----+  
| Johnson       | L-14       |  
| Jones         | L-17       |  
| Williams      | L-17       |  
+-----+-----+  
3 rows in set (0.001 sec)  
  
MariaDB [Bank]>
```

Task-2:

select c1.customer_name as Customer1, c2.customer_name as Customer2,
c1.customer_city from customer c1 inner join customer c2 on c1.customer_city =
c2.customer_city where c1.customer_id != c2.customer_id;

```
ca. XAMPP for Windows - mysql -h localhost -u root
+-----+-----+
3 rows in set (0.001 sec)

MariaDB [Bank]> select c1.customer_name as Customer1, c2.customer_name as Customer2,
-> c1.customer_city from customer c1 inner join customer c2 on c1.customer_city =
-> c2.customer_city where c1.customer_id != c2.customer_id;
+-----+-----+-----+
| Customer1 | Customer2 | customer_city |
+-----+-----+-----+
| Hayes     | Jones     | Harrison      |
| Curry     | Smith     | Rye           |
| Jones     | Hayes     | Harrison      |
| Smith     | Curry     | Rye           |
| Adams     | Lindsay   | Pittsfield    |
| Green     | Turner    | Stamford      |
| Lindsay   | Adams     | Pittsfield    |
| Turner    | Green     | Stamford      |
+-----+-----+-----+
8 rows in set (0.001 sec)

MariaDB [Bank]>
```

Task-3:

select branch_name as "Branch_name", (sum(balance)*4)/100 AS "Total_Interest" from
account group by branch_name;

```
CA: XAMPP for Windows - mysql -h localhost -u root
8 rows in set (0.001 sec)

MariaDB [Bank]> select branch_name as "Branch_name", (sum(balance)*4)/100 AS "Total_Interest" from
-> account group by branch_name;
+-----+-----+
| Branch_name | Total_Interest |
+-----+-----+
| Brighton    | 66.0000       |
| Downtown    | 20.0000       |
| Mianus       | 28.0000       |
| Perryridge  | 16.0000       |
| Redwood     | 28.0000       |
| Round Hill  | 14.0000       |
+-----+-----+
6 rows in set (0.000 sec)

MariaDB [Bank]>
```

Task-4:

select b.branch_city, a.Account_Number from branch b , account a, (select
b.branch_city, max(a.balance) as Highest_Balance from branch b inner join account a
on b.branch_name = a.branch_name group by b.branch_city) c where b.branch_name =
a.branch_name and b.branch_city = c.branch_city and a.balance = c.Highest_Balance;

```
CA: XAMPP for Windows - mysql -h localhost -u root
MariaDB [Bank]> select b.branch_city, a.Account_Number from branch b , account a, (select
-> b.branch_city, max(a.balance) as Highest_Balance from branch b inner join account a
-> on b.branch_name = a.branch_name group by b.branch_city) c where b.branch_name =
-> a.branch_name and b.branch_city = c.branch_city and a.balance = c.Highest_Balance;
+-----+-----+
| branch_city | Account_Number |
+-----+-----+
| Brooklyn   | A-201          |
| Horseneck  | A-215          |
| Palo Alto  | A-222          |
+-----+-----+
3 rows in set (0.001 sec)

MariaDB [Bank]>
```

Task-5:

```
select c.customer_name, l.loan_number, l.amount from ((customer c inner join borrower
b on c.customer_id=b.customer_id) inner join loan l on b.loan_number=l.loan_number)
order by l.amount asc, l.loan_number desc limit 5;
```

```
XAMPP for Windows - mysql -h localhost -u root
3 rows in set (0.001 sec)

MariaDB [Bank]> select c.customer_name, l.loan_number, l.amount from ((customer c inner join borrower
r
  -> b on c.customer_id=b.customer_id) inner join loan l on b.loan_number=l.loan_number)
  -> order by l.amount asc, l.loan_number desc limit 5;
+-----+-----+-----+
| customer_name | loan_number | amount |
+-----+-----+-----+
| Curry         | L-93       | 500    |
| Smith        | L-11       | 900    |
| Jones         | L-17       | 1000   |
| Williams     | L-17       | 1000   |
| Adams        | L-16       | 1300   |
+-----+-----+-----+
5 rows in set (0.001 sec)

MariaDB [Bank]>
```

Task-6:

select c.customer_name from customer c, depositor d, borrower b, loan l where
c.customer_id=d.customer_id and c.customer_id=b.customer_id and
b.loan_number=l.loan_number and l.branch_name="Perryridge";

```
C:\XAMPP for Windows - mysql -h localhost -u root
5 rows in set (0.001 sec)

MariaDB [Bank]> select c.customer_name from customer c, depositor d, borrower b, loan l where
-> c.customer_id=d.customer_id and c.customer_id=b.customer_id and
-> b.loan_number=l.loan_number and l.branch_name="Perryridge";
+-----+
| customer_name |
+-----+
| Hayes         |
+-----+
1 row in set (0.001 sec)

MariaDB [Bank]>
```

Task-7:

SELECT SUM(amount) as "total_loan" FROM loan WHERE loan_number IN(SELECT
loan_number FROM borrower WHERE customer_id IN (SELECT customer_id FROM borrower
GROUP BY customer_id HAVING COUNT(customer_id)>1));

cmd XAMPP for Windows - mysql -h localhost -u root

```
MariaDB [Bank]> SELECT SUM(amount) as "total_loan" FROM loan WHERE loan_number IN(SELECT  
-> loan_number FROM borrower WHERE customer_id IN (SELECT customer_id FROM borrower  
-> GROUP BY customer_id HAVING COUNT(customer_id)>1));
```

```
+-----+  
| total_loan |
```

```
+-----+  
|      2900 |
```

```
+-----+
```

```
1 row in set (0.001 sec)
```

```
MariaDB [Bank]>
```