

CSE370 : Database Systems

Assignment 01/02/03 | Fall 2024

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No 1 Query (as Plain Text)	MariaDB [BANK_22301050]> SELECT c.customer_name, l.loan_number from customer c,loan l, borrower where borrower.customer_id=c.customer_id and borrower.loan_number=l.loan_number and l.branch_name='Downtown';
No 1 SS (of Query & Output in Shell)	<pre>MariaDB [BANK_22301050]> SELECT c.customer_name, l.loan_number from customer c,loan l, borrower where borrower.customer_id=c.customer_id and borrower.loan_number=l.loan_number and l.branch_name='Downtown'; +-----+-----+ customer_name loan_number +-----+-----+ Johnson L-14 Jones L-17 Williams L-17 +-----+-----+</pre>
No 2 Query (as Plain Text)	MariaDB [BANK_22301050]> SELECT c1.customer_name as customer1, c2.customer_name as customer2, c1.customer_city as city -> FROM customer c1 JOIN customer c2 on c1.customer_city=c2.customer_city WHERE c1.customer_id < c2.customer_id;
No 2 SS (of Query & Output in Shell)	<pre>MariaDB [BANK_22301050]> SELECT c1.customer_name as customer1, c2.customer_name as customer2, c1.customer_city as city -> FROM customer c1 JOIN customer c2 on c1.customer_city=c2.customer_city WHERE c1.customer_id < c2.customer_id; +-----+-----+-----+ customer1 customer2 city +-----+-----+-----+ Jones Hayes Harrison Smith Curry Rye Lindsay Adams Pittsfield Turner Green Stamford +-----+-----+-----+</pre>
No 3 Query (as Plain Text)	MariaDB [BANK_22301050]> select branch_name, sum(balance*0.04) as Total_interest from account group by branch_name;

No 3 SS (of Query & Output in Shell)	<pre> MariaDB [BANK_22301050]> select branch_name, sum(balance*0.04) as Total_interest from account group by branch_name; +-----+-----+ branch_name Total_interest +-----+-----+ Brighton 66.00 Downtown 20.00 Mianus 28.00 Perryridge 16.00 Redwood 28.00 Round Hill 14.00 +-----+-----+ </pre>
No 4 Query (as Plain Text)	<pre> MariaDB [BANK_22301050]> SELECT a.account_number, a.balance, b.branch_city -> FROM account a inner join branch b on b.branch_name = a.branch_name -> WHERE a.balance=(-> select max(c.balance) from account c inner join branch d on d.branch_name=c.branch_name and d.branch_city=b.branch_city) group by b.branch_city; </pre>
No 4 SS (of Query & Output in Shell)	<pre> MariaDB [BANK_22301050]> SELECT a.account_number, a.balance, b.branch_city -> FROM account a inner join branch b on b.branch_name = a.branch_name -> WHERE a.balance=(-> select max(c.balance) from account c inner join branch d on d.branch_name=c.branch_name and d.branch_city=b.branch_city) group by b.branch_city; +-----+-----+-----+ account_number balance branch_city +-----+-----+-----+ A-201 900 Brooklyn A-215 700 Horseneck A-222 700 Palo Alto +-----+-----+-----+ </pre>
No 5 Query (as Plain Text)	<pre> MariaDB [BANK_22301050]> SELECT l.loan_number, l.amount, c.customer_name -> 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; </pre>

No 5 SS
(of Query & Output
in Shell)

```
MariaDB [BANK_22301050]> SELECT l.loan_number, l.amount, c.customer_name
-> 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;
+-----+-----+-----+
| 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        |
+-----+-----+-----+
```

No 6 Query
(as Plain Text)

```
MariaDB [BANK_22301050]> select c.customer_name
-> from customer c inner join depositor d on c.customer_id = d.customer_id
-> inner join account a on d.account_number = a.account_number
-> inner join borrower b on c.customer_id = b.customer_id
-> inner join loan l on
-> b.loan_number = l.loan_number where a.branch_name = 'Perryridge' and l.branch_name = 'Perryridge';
```

No 6 SS
(of Query & Output
in Shell)

```
MariaDB [BANK_22301050]> select c.customer_name
-> from customer c inner join depositor d on c.customer_id = d.customer_id
-> inner join account a on d.account_number = a.account_number
-> inner join borrower b on c.customer_id = b.customer_id
-> inner join loan l on
-> b.loan_number = l.loan_number where a.branch_name = 'Perryridge' and l.branch_name = 'Perryridge';
+-----+
| customer_name |
+-----+
| Hayes         |
+-----+
```

No 7 Query
(as Plain Text)

```
MariaDB [BANK_22301050]> select c.customer_name , sum(l.amount) as total_loan
-> 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
```

	-> group by c.customer_name having count(l.loan_number) >= 2;
No 7 SS (of Query & Output in Shell)	<pre> MariaDB [BANK_22301050]> select c.customer_name , sum(l.amount) as total_loan -> 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 -> group by c.customer_name having count(l.loan_number) >= 2; +-----+-----+ customer_name total_loan +-----+-----+ Smith 2900 +-----+-----+ </pre>

```

Setting environment for using XAMPP for Windows.
USER@LAPTOP-NB36HE8G d:\New folder (2)
# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 8
Server version: 10.4.32-MariaDB mariadb.org binary distribution

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```