

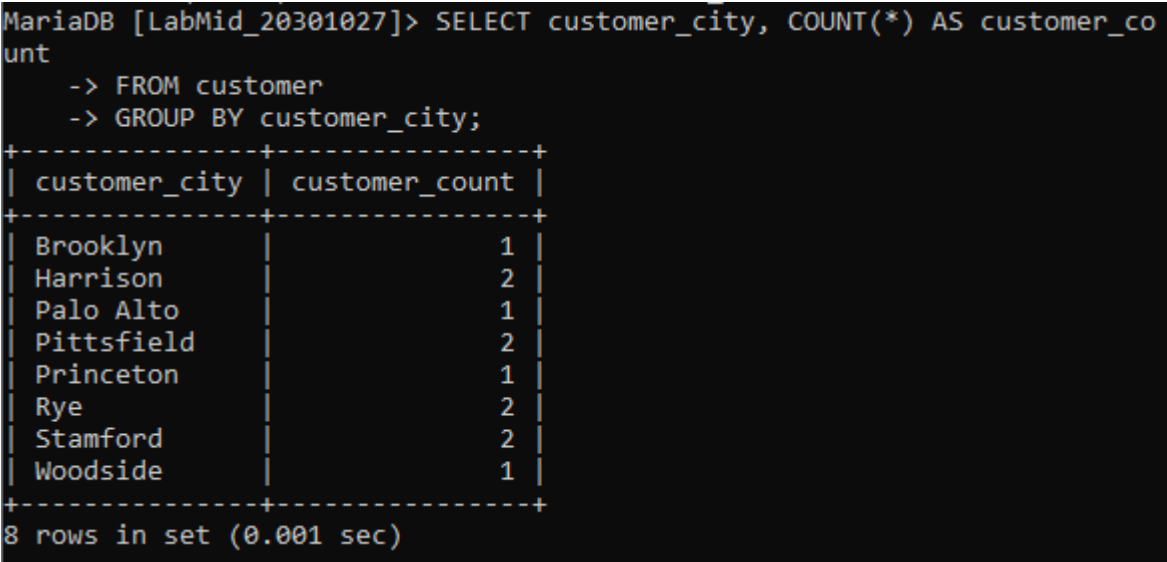
CSE370 : Database Systems Lab Mid | Spring 2024

Answer Sheet

ID : 20301027 | Name : Fathin Ishrak

No 1 Query (as Plain Text)	CREATE DATABASE LabMid_20301027;
No 1 SS (of Query & Output in Shell)	<pre>MariaDB [(none)]> CREATE DATABASE LabMid_20301027; Query OK, 1 row affected (0.001 sec)</pre>
No 2 Query (as Plain Text)	USE LabMid_20301027;
No 2 SS (of Query & Output in Shell)	<pre>MariaDB [(none)]> USE LabMid_20301027; Database changed</pre>
No 3 Query (as Plain Text)	SELECT branch_name FROM loan WHERE amount < 1000;

<p>No 3 SS (of Query & Output in Shell)</p>	<pre> MariaDB [LabMid_20301027]> SELECT branch_name -> FROM loan -> WHERE amount < 1000; +-----+ branch_name +-----+ Round Hill Mianus +-----+ 2 rows in set (0.000 sec) </pre>
<p>No 4 Query (as Plain Text)</p>	<pre> SELECT CONCAT(customer_street, ', ', customer_city) AS customer_address FROM customer WHERE customer_name LIKE '%y'; </pre>
<p>No 4 SS (of Query & Output in Shell)</p>	<pre> MariaDB [LabMid_20301027]> SELECT CONCAT(customer_street, ', ', customer _city) AS customer_address -> FROM customer -> WHERE customer_name LIKE '%y'; +-----+ customer_address +-----+ North, Rye Park, Pittsfield +-----+ 2 rows in set (0.000 sec) </pre>
<p>No 5 Query (as Plain Text)</p>	

No 5 SS (of Query & Output in Shell)	
No 6 Query (as Plain Text)	SELECT customer_city, COUNT(*) AS customer_count FROM customer GROUP BY customer_city;
No 6 SS (of Query & Output in Shell)	 <pre> MariaDB [LabMid_20301027]> SELECT customer_city, COUNT(*) AS customer_co unt -> FROM customer -> GROUP BY customer_city; +-----+-----+ customer_city customer_count +-----+-----+ Brooklyn 1 Harrison 2 Palo Alto 1 Pittsfield 2 Princeton 1 Rye 2 Stamford 2 Woodside 1 +-----+-----+ 8 rows in set (0.001 sec) </pre>
No 7 Query (as Plain Text)	SELECT DISTINCT b1.branch_name FROM branch b1 WHERE b1.assets > (SELECT MAX(b2.assets) FROM branch b2 WHERE b2.branch_city = 'Brooklyn');

<p>No 7 SS (of Query & Output in Shell)</p>	<pre>MariaDB [LabMid_20301027]> SELECT DISTINCT b1.branch_name -> FROM branch b1 -> WHERE b1.assets > (SELECT MAX(b2.assets) FROM branch b2 WHERE b2. branch_city = 'Brooklyn'); Empty set (0.001 sec)</pre>
<p>No 8 Query (as Plain Text)</p>	<pre>SELECT branch.branch_name, GROUP_CONCAT(customer.customer_name ORDER BY customer.customer_name) AS customer_names FROM branch LEFT JOIN depositor ON branch.branch_name = depositor.branch_name LEFT JOIN customer ON depositor.customer_id = customer.customer_id GROUP BY branch.branch_name;</pre>
<p>No 8 SS (of Query & Output in Shell)</p>	
<p>No 9 Query (as Plain Text)</p>	<pre>SELECT branch_name FROM account GROUP BY branch_name HAVING AVG(balance) >= 600;</pre>

<p>No 9 SS (of Query & Output in Shell)</p>	<pre> MariaDB [LabMid_20301027]> SELECT branch_name -> FROM account -> GROUP BY branch_name -> HAVING AVG(balance) >= 600; +-----+ branch_name +-----+ Brighton Mianus Redwood +-----+ 3 rows in set (0.000 sec) </pre>
<p>No 10 Query (as Plain Text)</p>	<pre> SELECT loan_number, customer_name, amount FROM (SELECT loan_number, customer_name, amount, ROW_NUMBER() OVER (ORDER BY amount DESC, loan_number DESC) AS row_num FROM loan JOIN borrower ON loan.loan_number = borrower.loan_number JOIN customer ON borrower.customer_id = customer.customer_id) AS ranked WHERE row_num <= 5; </pre>

No 10 SS
(of Query & Output
in Shell)

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MariaDB [LabMid_20301027]> SELECT loan_number, customer_name, amount
-> FROM (
-> SELECT loan_number, customer_name, amount,
-> ROW_NUMBER() OVER (ORDER BY amount DESC, loan_number DESC) AS row_num
-> FROM loan
-> JOIN borrower ON loan.loan_number = borrower.loan_number
-> JOIN customer ON borrower.customer_id = customer.customer_id
-> )
-> AS ranked
-> WHERE row_num <= 5;
ERROR 1052 (23000): Column 'loan_number' in field list is ambiguous
MariaDB [LabMid_20301027]> _
```