

CSE370 : Database Systems

Assignment 03 | Fall 2024

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No 1 Query (as Plain Text)	SELECT customer.customer_name, loan.loan_number FROM ((loan INNER JOIN borrower ON loan.loan_number = borrower.loan_number) INNER JOIN customer ON borrower.customer_id = customer.customer_id) WHERE loan.branch_name = "Downtown";
No 1 SS (of Query & Output in Shell)	<pre>MariaDB [Bank_22201998]> SELECT customer.customer_name, loan.loan_number FROM ((loan INNER JOIN borrower ON loan.loan_number = borrower.loan_number) INNER JOIN customer ON borrower.customer_id = customer.customer_id) WHERE loan.branch_name = "Downtown"; +-----+-----+ customer_name loan_number +-----+-----+ Johnson L-14 Jones L-17 Williams L-17 +-----+-----+ 3 rows in set (0.016 sec) MariaDB [Bank_22201998]> </pre>
No 2 Query (as Plain Text)	SELECT L1.customer_name AS Customer1, L2.customer_name AS Customer2, L1.customer_city AS City FROM customer L1, customer L2 WHERE L1.customer_city = L2.customer_city AND L1.customer_id > L2.customer_id;
No 2 SS (of Query & Output in Shell)	<pre>MariaDB [Bank_22201998]> SELECT L1.customer_name AS Customer1, L2.customer_name AS Customer2, L1.customer_city AS City FROM customer L1, customer L2 WHERE L1.customer_city = L2.customer_city AND L1.customer_id > L2.customer_id; +-----+-----+-----+ Customer1 Customer2 City +-----+-----+-----+ Hayes Jones Harrison Curry Smith Rye Adams Lindsay Pittsfield Green Turner Stamford +-----+-----+-----+ 4 rows in set (0.007 sec) MariaDB [Bank_22201998]> </pre>
No 3 Query (as Plain Text)	SELECT branch.branch_name AS Branch_name, SUM(account.balance*0.04) AS Total_Interest FROM branch LEFT JOIN account ON branch.branch_name = account.branch_name GROUP BY branch.branch_name;

No 3 SS (of Query & Output in Shell)	<pre> MariaDB [Bank_22201998]> SELECT branch.branch_name AS Branch_name, SUM(account.balance*0.04) AS Total_Interest FROM branch LEFT JOIN account ON branch.branch_name = account.branch_name GROUP BY branch.branch_name; +-----+-----+ Branch_name Total_Interest +-----+-----+ Brighton 66.00 Downtown 20.00 Mianus 28.00 North Town NULL Perryridge 16.00 Pownal NULL Redwood 28.00 Round Hill 14.00 +-----+-----+ 8 rows in set (0.010 sec) MariaDB [Bank_22201998]> </pre>
No 4 Query (as Plain Text)	SELECT account.account_number FROM ((account INNER JOIN depositor ON account.account_number = depositor.account_number) INNER JOIN customer ON depositor.customer_id = customer.customer_id) GROUP BY customer.customer_city HAVING MAX(account.balance);
No 4 SS (of Query & Output in Shell)	<pre> MariaDB [Bank_22201998]> SELECT account.account_number FROM ((account INNER JOIN depositor ON account.account_number = depositor.account_number) INNER JOIN customer ON depositor.customer_id = customer.customer_id) GROUP BY customer.customer_city HAVING MAX(account.balance); +-----+ account_number +-----+ A-217 A-101 A-222 A-215 A-305 +-----+ 5 rows in set (0.102 sec) MariaDB [Bank_22201998]> </pre>
No 5 Query (as Plain Text)	SELECT loan.loan_number, loan.amount, customer.customer_name FROM ((loan INNER JOIN borrower ON loan.loan_number = borrower.loan_number) INNER JOIN customer ON borrower.customer_id = customer.customer_id) ORDER BY loan.amount ASC, loan.loan_number DESC LIMIT 5;

No 5 SS (of Query & Output in Shell)	<pre>MariaDB [Bank_22201998]> SELECT loan.loan_number, loan.amount, customer.customer_name FROM ((loan INNER JOIN borrower ON loan.loan_number = borrower.loan_number) INNER JOIN customer ON borrower.customer_id = customer.customer_id) ORDER BY loan.amount ASC, loan.loan_number DESC LIMIT 5;</pre> <table><thead><tr><th>loan_number</th><th>amount</th><th>customer_name</th></tr></thead><tbody><tr><td>L-93</td><td>500</td><td>Curry</td></tr><tr><td>L-11</td><td>900</td><td>Smith</td></tr><tr><td>L-17</td><td>1000</td><td>Jones</td></tr><tr><td>L-17</td><td>1000</td><td>Williams</td></tr><tr><td>L-16</td><td>1300</td><td>Adams</td></tr></tbody></table> <pre>5 rows in set (0.001 sec)</pre> <pre>MariaDB [Bank_22201998]> </pre>	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
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L-17	1000	Williams																	
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No 6 Query (as Plain Text)	<pre>SELECT customer.customer_name FROM ((loan INNER JOIN borrower ON loan.loan_number = borrower.loan_number AND loan.branch_name = "Perryridge") INNER JOIN customer ON borrower.customer_id = customer.customer_id);</pre>																		
No 6 SS (of Query & Output in Shell)	<pre>MariaDB [Bank_22201998]> SELECT customer.customer_name FROM ((loan INNER JOIN borrower ON loan.loan_number = borrower.loan_number AND loan.branch_name = "Perryridge") INNER JOIN customer ON borrower.customer_id = customer.customer_id);</pre> <table><thead><tr><th>customer_name</th></tr></thead><tbody><tr><td>Hayes</td></tr><tr><td>Adams</td></tr></tbody></table> <pre>2 rows in set (0.079 sec)</pre> <pre>MariaDB [Bank_22201998]></pre>	customer_name	Hayes	Adams															
customer_name																			
Hayes																			
Adams																			
No 7 Query (as Plain Text)	<pre>SELECT customer.customer_name, SUM(loan.amount) AS total_loan FROM ((loan INNER JOIN borrower ON loan.loan_number = borrower.loan_number) INNER JOIN customer ON borrower.customer_id = customer.customer_id) GROUP BY customer.customer_name HAVING COUNT(loan.loan_number) > 1;</pre>																		
No 7 SS (of Query & Output in Shell)	<pre>MariaDB [Bank_22201998]> SELECT customer.customer_name, SUM(loan.amount) AS total_loan FROM ((loan INNER JOIN borrower ON loan.loan_number = borrower.loan_number) INNER JOIN customer ON borrower.customer_id = customer.customer_id) GROUP BY customer.customer_name HAVING COUNT(loan.loan_number) > 1;</pre> <table><thead><tr><th>customer_name</th><th>total_loan</th></tr></thead><tbody><tr><td>Smith</td><td>2900</td></tr></tbody></table> <pre>1 row in set (0.001 sec)</pre> <pre>MariaDB [Bank_22201998]></pre>	customer_name	total_loan	Smith	2900														
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