CSE370: Database Systems

Assignment 03 | Spring 2025

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No 1 Query (as Plain Text)	select c.customer_name, b.loan_number from borrower b join loan I on b.loan_number = I.loan_number join customer c on b.customer_id = c.customer_id where I.branch_name = 'downtown';				
No 1 SS (of Query & Output in Shell)	<pre>MariaDB [Bank_22201178]> select c.customer_name, b.loan_number from borrower b join loan l on b.loan_num ber = l.loan_number join customer c on b.customer_id = c.customer_id where l.branch_name = 'downtown'; +</pre>				
No 2 Query	select c1.customer_name as customer1, c2.customer_name as customer2, c1.customer_city from customer c1 join customer c2 on c1.customer_city = c2.customer_city and c1.customer_id < c2.customer_id;				
(as Plain Text)	customer c2 on	c1.customer_	_city = c2.customer	_city and c1.customer_id < c2.customer_id;	
No 2 SS (of Query & Output	MariaDB [Ban	k_22201178]>	select c1.custo	mer_name as customer_id < c2.customer_id; mer_name as customer1, c2.customer_name as customer2, c1.custome on c1.customer_city = c2.customer_city and c1.customer_id < c2.	
No 2 SS	MariaDB [Ban r_city from customer_id;	k_22201178]> customer c1 :	select c1.custo	mer_name as customer1, c2.customer_name as customer2, c1.custome	
No 2 SS (of Query & Output	MariaDB [Ban r_city from customer_id;	k_22201178]> customer c1 :	select c1.custo join customer c2	mer_name as customer1, c2.customer_name as customer2, c1.custome	
No 2 SS (of Query & Output	MariaDB [Ban r_city from customer_id; + customer1 + Jones Smith Lindsay	k_22201178]> customer c1 + customer2 + Hayes Curry Adams Green	select c1.custo join customer c2 + customer_city + Harrison Rye Pittsfield Stamford	mer_name as customer1, c2.customer_name as customer2, c1.custome	

No 3 Query (as Plain Text)	select a.branch_name, sum(a.balance * 0.04) as total_interest from account a group by a.branch_name;			
No 3 SS (of Query & Output in Shell)	MariaDB [Bank_22201178]> MariaDB [Bank_22201178]> select a.branch_name, sum(a.balance * 0.04) as total_interest from account a group by a.branch_name;			
	branch_name total_interest			
	Brighton			
No 4 Query (as Plain Text)	select a.account_number, a.balance, c.customer_city from account a join depositor d on a.account_number = d.account_number join customer c on d.customer_id = c.customer_id where a.balance = (select max(a2.balance) from account a2 join depositor d2 on a2.account_number = d2.account_number join customer c2 on d2.customer_id = c2.customer_id where c2.customer_city = c.customer_city);			

No 4 SS MariaDB [Bank_22201178] > select a.account_number, a.balance, c.customer_city from account a join deposit (of Query & Output or d on a.account_number = d.account_number join customer c on d.customer_id = c.customer_id where a.bal ance = (select max(a2.balance) from account a2 join depositor d2 on a2.account_number = d2.account_numbe in Shell) r join customer c2 on d2.customer_id = c2.customer_id where c2.customer_city = c.customer_city); account_number | balance | customer_city A-217 Harrison 750 A-215 700 Rve Pittsfield A-222 700 Stamford A-305 350 A-201 900 | Palo Alto 5 rows in set (0.012 sec) No 5 Query select l.loan number, l.amount, c.customer name from borrower b join loan I on b.loan number = l.loan number join (as Plain Text) customer c on b.customer id = c.customer id order by l.amount asc, l.loan number desc limit 5; No 5 SS MariaDB [Bank_22201178] > select l.loan_number, l.amount, c.customer_name from borrower b join loan l on (of Query & Output b.loan_number = l.loan_number join customer c on b.customer_id = c.customer_id order by l.amount asc, l. loan_number desc limit 5; in Shell) 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 5 rows in set (0.003 sec) No 6 Query select distinct c.customer name from customer c join depositor d on c.customer id = d.customer id join account a on

(as Plain Text)	d.account_number = a.account_number join borrower b on c.customer_id = b.customer_id join loan I on b.loan_number I.loan_number where a.branch_name = 'perryridge' and I.branch_name = 'perryridge'			
No 6 SS (of Query & Output in Shell)	<pre>MariaDB [Bank_22201178]> select distinct c.customer_name from customer c join depositor d on c.customer_ id = d.customer_id join account a on d.account_number = a.account_number join borrower b on c.customer_i d = b.customer_id join loan l on b.loan_number = l.loan_number where a.branch_name = 'perryridge' and l. branch_name = 'perryridge'; +</pre>			
No 7 Query (as Plain Text)	select c.customer_name, sum(l.amount) as total_loan from borrower b join loan I on b.loan_number = I.loan_number jo customer c on b.customer_id = c.customer_id group by c.customer_name having count(b.loan_number) >= 2;			
No 7 SS (of Query & Output in Shell)	<pre>MariaDB [Bank_22201178]> select distinct c.customer_name from customer c join depositor d on c.customer_ id = d.customer_id join account a on d.account_number = a.account_number join borrower b on c.customer_id d = b.customer_id join loan l on b.loan_number = l.loan_number where a.branch_name = 'perryridge' and l. branch_name = 'perryridge'; ++ customer_name +</pre>			