

CSE370 : Database Systems

Assignment 01 | Fall 2024

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| No 1 Query (as Plain Text) | select a.customer_name, b.loan_number from customer a, loan b, borrower c where c.customer_id=a.customer_id and b.loan_number =c.loan_number and b.branch_name="Downtown"; |
| No 1 SS (of Query & Output in Shell) | <pre>MariaDB [bank_22301242]> select a.customer_name, b.loan_number from customer a, loan b, borrower c where c.customer_id=a.customer_id and b.loan_number =c.loan_number and b.branch_name="Downtown"; +-----+-----+ customer_name loan_number +-----+-----+ Johnson L-14 Jones L-17 Williams L-17 +-----+-----+ 3 rows in set (0.000 sec)</pre> |
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| No 2 Query (as Plain Text) | select c1.customer_name as Customer1, c2.customer_name Customer2, c1.customer_city as City from customer c1, customer c2 where c1.customer_city=c2.customer_city and c1.customer_id<c2.customer_id; |
| No 2 SS (of Query & Output in Shell) | <pre>MariaDB [bank_22301242]> select c1.customer_name as Customer1, c2.customer_name Customer2, c1.customer_city as City from customer c1, customer c2 where c1.customer_city=c2.customer_city and c1.customer_id<c2.customer_id; +-----+-----+-----+ Customer1 Customer2 City +-----+-----+-----+ Jones Hayes Harrison Smith Curry Rye Lindsay Adams Pittsfield Turner Green Stamford +-----+-----+-----+ 4 rows in set (0.001 sec)</pre> |
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| No 3 Query | select branch_name, SUM(balance*0.04) as Total_interest From account group By branch_name; |

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| (as Plain Text) | |
| No 3 SS (of Query & Output in Shell) | <pre> MariaDB [bank_22301242]> 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 +-----+-----+ 6 rows in set (0.001 sec) </pre> |
| No 4 Query (as Plain Text) | <p>select a.account_number,a.balance,c.customer_city from customer c,depositor d,account a where c.customer_id=d.customer_id and d.account_number=a.account_number and a.balance=(select max(a1.balance) from account a1,depositor d1,customer c1 where a1.account_number=d1.account_number and d1.customer_id=c1.customer_id and c1.customer_city=c.customer_city group by c1.customer_city);</p> |
| No 4 SS (of Query & Output in Shell) | <pre> MariaDB [bank_22301242]> select a.account_number,a.balance,c.customer_city from customer c,depositor d,account a where c.customer_id=d.customer_id and d.account_number=a.account_number and a.balance=(select max(a1.balance) from account a1,depositor d1,customer c1 where a1.account_number=d1.account_number and d1.customer_id=c1.customer_id and c1.customer_city=c.customer_city group by c1.customer_city); +-----+-----+-----+ account_number balance customer_city +-----+-----+-----+ A-217 750 Harrison A-215 700 Rye A-222 700 Pittsfield A-305 350 Stamford A-201 900 Palo Alto +-----+-----+-----+ 5 rows in set (0.000 sec) </pre> |
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| No 5 Query (as Plain Text) | select l.loan_number,l.amount,c.customer_name from borrower b,loan l,customer c where b.loan_number=l.loan_number and b.customer_id=c.customer_id order by l.amount asc,l.loan_number desc limit 5; |
| No 5 SS (of Query & Output in Shell) | <pre> MariaDB [bank_22301242]> select l.loan_number,l.amount,c.customer_name from borrower b,loan l,customer c where b.loan_number=l.loan_number and b.customer_id=c.customer_id 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 +-----+-----+-----+ 5 rows in set (0.001 sec) </pre> |
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| No 6 Query (as Plain Text) | select c.customer_name from customer c,loan l,borrower b,depositor d,account a where c.customer_id=d.customer_id and d.account_number=a.account_number and c.customer_id=b.customer_id and b.loan_number=l.loan_number and l.branch_name="Perryridge" and a.branch_name="Perryridge"; |
| No 6 SS (of Query & Output in Shell) | <pre> MariaDB [bank_22301242]> select c.customer_name from customer c,loan l,borrower b,depositor d,account a where c.customer_id=d.customer_id and d.account_number=a.account_number and c.customer_id=b.customer_id and b.loan_number=l.loan_number and l.branch_name="Perryridge" and a.branch_name="Perryridge"; +-----+ customer_name +-----+ Hayes +-----+ 1 row in set (0.001 sec) </pre> |
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| No 7 Query (as Plain Text) | select c.customer_name,sum(l.amount) as total_loan from borrower b,customer c,loan l where c.customer_id=b.customer_id and b.loan_number=l.loan_number group by c.customer_name having |

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| | count(b.loan_number)>=2; |
| No 7 SS (of Query & Output in Shell) | <pre> MariaDB [bank_22301242]> select c.customer_name,sum(l.amount) as total_loan from borrower b,customer c,loan l where c .customer_id=b.customer_id and b.loan_number=l.loan_number group by c.customer_name having count(b.loan_number)>=2; +-----+-----+ customer_name total_loan +-----+-----+ Smith 2900 +-----+-----+ 1 row in set (0.000 sec) </pre> |
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