CSE370: Database Systems

Assignment 03 | Fall 2024

ID: 22201949 | Name: Azmari Sultana

No 1 Query (as Plain Text)	select customer.customer_name, loan.loan_number from borrower -> JOIN loan ON borrower.loan_number= loan.loan_number -> AND loan.branch_name='Downtown' -> JOIN customer ON borrower.customer_id= customer.customer_id;
No 1 SS (of Query & Output in Shell)	<pre>MariaDB [Bank_22201949]> select customer.customer_name, loan.loan_number from borrower</pre>
No 2 Query (as Plain Text)	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 -> AND c1.customer_id < c2.customer_id;
No 2 SS (of Query & Output in Shell)	MariaDB [Bank_22201949]> select c1.customer_name AS Customer1, c2.customer_name AS Customer2, c1.customer_city AS city FROM custome r c1 -> JOIN customer c2 ON c1.customer_city= c2.customer_city -> AND c1.customer_id < c2.customer_id;
No 3 Query (as Plain Text)	select account.branch_name AS Branch_name, SUM(account.balance * 0.04) AS Total_Interest -> FROM account GROUP BY account.branch_name;

No 3 SS (of Query & Output in Shell)

No 4 Query (as Plain Text)

select acc.account number, acc.balance, b.branch city FROM account acc

- -> INNER JOIN branch b ON acc.branch name= b.branch name
- -> WHERE acc.balance=(
- -> SELECT MAX(acc2.balance) FROM account acc2
- -> INNER JOIN branch b2 ON acc2.branch_name=b2.branch_name
- -> WHERE b2.branch city=b.branch city
- ->)
- -> ORDER BY b.branch_city;

No 4 SS (of Query & Output in Shell)

No 5 Query (as Plain Text)

select * FROM(

- -> select loan.loan number, amount, customer name from loan
- -> inner join borrower on loan.loan number= borrower.loan number
- -> inner join customer on customer.customer id= borrower.customer id
- -> order by amount DESC limit 5
- ->)
- -> AS table1 order by amount, loan number DESC;

No 5 SS (of Query & Output in Shell)

```
MariaDB [Bank_22201949]> select * FROM(
    -> select loan.loan_number, amount, customer_name from loan
   -> inner join borrower on loan.loan_number= borrower.loan_number
   -> inner join customer on customer.customer_id= borrower.customer_id
   -> order by amount DESC limit 5
   -> )
    -> AS table1 order by amount, loan_number DESC;
 loan_number | amount | customer_name
                  1000
                         Jones
  L-16
                  1300
                         Adams
 L-15
                  1500
                         Hayes
 1 - 14
                  1500
                         Johnson
 L-23
                  2000
                       | Smith
 rows in set (0.001 sec)
```

No 6 Query (as Plain Text)

select distinct c.customer name from customer c

- -> inner join depositor d on c.customer id=d.customer id
- -> inner join account acc on d.account number=acc.account number
- -> inner join borrower brr on c.customer_id=brr.customer_id
- -> inner join loan I on brr.loan number=I.loan number
- -> and I.branch_name=acc.branch_name
- -> where acc.branch name='Perryridge';

No 6 SS (of Query & Output in Shell)

No 7 Query (as Plain Text)

select c.customer_name, SUM(l.amount) as total_loan from customer c

- -> join borrower brr on c.customer id=brr.customer id
- -> join loan I on brr.loan number= I.loan number
- -> where c.customer id IN(
- -> select brr2.customer_id from borrower brr2 group by brr2.customer_id having count(*)>=2

->)

	-> group by c.customer_id order by total_loan DESC;
No 7 SS (of Query & Output in Shell)	<pre>MariaDB [Bank_22201949]> select c.customer_name, SUM(l.amount) as total_loan from customer c -> join borrower brr on c.customer_id=brr.customer_id -> join loan l on brr.loan_number= l.loan_number -> where c.customer_id IN(-> select brr2.customer_id from borrower brr2 group by brr2.customer_id having count(*)>=2 ->) -> group by c.customer_id order by total_loan DESC; +</pre>