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1) To find all loan number for loans made at the Perryridge branch with loan amounts greater than $1200.

   Query: select loan_no from loan where branch_name = "Perryridge" and amount > 1200;

   Output: ***Loan_no***
   L-15
   L-16

2) Find the loan number of those loans with loan amounts between $500 and $1000 (that I, >=$500 and <= $1000)

   Query: select loan_no from loan where amount between 500 and 1000;

   Output: ***Loan_no***
   L-11
   L-17
   L-93

3) Find the name, loan number and loan amount of all customers having a loan at the Perryridge branch.

   Query: select customer_name,borrower.loan_no,amount from borrower,loan where borrower.loan_no = loan.loan_no and branch_name="Perryridge";

   Output:

customer_name	***loan_no***	***amount***
Hayes	**L-15**	**1500**
Adams	**L-16**	**1300**

4) Find the customer names and their loan numbers for all customers having a loan at some branch.

Query: select customer_name,borrower.loan_no,loan.amount from borrower,loan where borrower.loan_no = loan.loan_no;

Output: ***customer_name*** ***Loan_no*** ***amount***

Smith	**L-11**	**900**
Johnson	**L-14**	**1500**
Hayes	**L-15**	**1500**
Adams	**L-16**	**1300**
Jones	**L-17**	**1000**
Williams	**L-17**	**1000**
Smith	**L-23**	**2000**
Curry	**L-93**	**500**

5) Find the names of all branches that have greater assets than some branch located in Brooklyn

Query: select T.branch_name from branch as T, branch as S where T.assets > S.assets and S.branch_city = "Brooklyn";

Output: ***branch_name***

Downtown
Roundhill

6) Find the names of all customers whose street includes the substring “Main”

Query: select customer_name from customers where customer_street="Main";

Output: ***customer_name***

Hayes
Jones

7) List in alphabetic order the names of all customers having a loan in Perryridge branch

Query: select customer_name from borrower,loan where borrower.loan_no = loan.loan_no and branch_name = "Perryridge" order by customer_name;

Output: ***customer_name***

Adams
Hayes

8) Find all customers who have a loan, an account, or both.

Query: select customer_name from borrower union select customer_name from depositer;

Output: ***customer_name***

Adams
Curry
Hayes
Johnson
Jones
Smith
Williams
Lindsay
Turner

9) Find all customers who have both a loan and an account.

Query: select distinct customer_name from depositer where customer_name in (select customer_name from borrower);

Output: ***customer_name***

Hayes
Johnson
Jones
Smith

10) Find all customers who have an account but no loan.

Query: select customer_name from depositer where customer_name not in (select customer_name from borrower);

Output: ***customer_name***

Lindsay

Turner

11) Find the average account balance at the Perryridge branch.

Query: select avg(amount) from loan where branch_name = "Perryridge";

Output: ***avg(amount)***

1400.0000

12) Find the number of depositors in the bank.

Query: select count(customer_name) from depositer;

Output: ***count(customer_name)***

7

13) Find the number of depositors for each branch.

Query: select branch_name, count(customer_name) from depositer,account where depositer.account_no = account.account_no group by branch_name;

Output:

branch_name	***count(customer_name)***
Brighton	**2**
Downtown	**1**
Mianus	**1**
Perryridge	**1**
Redwood	**1**
Roundhill	**1**

14) Find the names of all branches where the average account balance is more than $1200

Query: select branch_name, avg(balance) from account group by branch_name having avg(balance) > 1200;

Output***: branch_name*** ***avg(balance)***

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15) Find all customers who have both an account and a loan at the bank

Query: select distinct customer_name from depositer where customer_name in (select customer_name from borrower);

Output: ***customer_name***

Hayes
Johnson
Jones
Smith

16) Find all customers who have a loan at the bank but do not have an account at the bank

Query: select customer_name from borrower where customer_name not in (select customer_name from depositer);

Output: ***customer_name***

Adams
Curry
Williams

17) Find all customers who have both an account and a loan at the Perryridge branch

Query: select customer_name from borrower,loan where borrower.loan_no = loan.loan_no and branch_name = "Perryridge" and customer_name in (select customer_name from depositer);

Output: ***customer_name***

Hayes

18) Find all branches that have greater assets than some branch located in Brooklyn.

Query: select T.branch_name from branch as T,branch as S where T.assets > S.assets and S.branch_city = "Brooklyn";

Output: ***branch_name***

Downtown

Roundhill

19) Same query using > some clause

Query: select branch_name from branch where assets > some (select assets from branch where branch_city = "Brooklyn");

Output: ***branch_name***

Downtown

Roundhill

20) Find the names of all branches that have greater assets than all branches located in Brooklyn.

Query: select branch_name from branch where assets > all (select assets from branch where branch_city = "Brooklyn");

Output: ***branch_name***

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