Database Management System (DBMS)

Lab Assignment -03

(Faculty: Dr. Ranjana Vyas)

Date of assignment: 04 Feb 2022

Q1. Create the Following Tables and answer the listed queries

Branch Table

Customer Table

Customer_name	Customer_street	Customer_city
Adams	Spring	Pittsfield
Brooks	Senator	Brooklyn
Curry	North	Rye
Glenn	Sand Hill	Woodside
Hayes	Main	Harrison
Green	Walnut	Stamford
Johnson	Alma	Palo Alto
Jones	Main	Harrison
Lindsay	Park	Pittsfield
Smith	North	Rye
Turner	Putnam	Stamford
Williams	Nassau	Princeton

Loan Table

Loan_number	Branch_name	Amount
L-11	Round Hill	900
L-14	Downtown	1500
L-15	Perryridge	1500
L-16	Perryridge	1300
L-17	Downtown	1000
L-23	Redwood	2000

L-93	Mianus	500

Borrower Table

Customer_name	**Loan_number**
Adams	L-16
Curry	L-93
Hayes	L-15
Jackson	L-14
Jones	L-17
Smith	L-11
Smith	L-23
Williams	L-17

Account Table

Account_number	**Branch_name**	**Balance**
A-101	Downtown	500
A-215	Mianus	700
A-102	Perryridge	400
A-305	Round Hill	350
A-201	Brighton	900
A-222	Redwood	700
A-217	Brighton	750

Depositor Table

Customer_name	**Account_number**
Hayes	A-102
Johnson	A-101
Johnson	A-201
Jones	A-217
Lindsay	A-222
Smith	A-215
Turner	A-305

Write the SQL queries on the bases of above 6 tables.

1. Display the tuples of the loan relation where the branch is “Perryridge”.
2. Find those customers who live in Harrison city.
3. Find the names of all customers who have a loan at the bank, and find the amount of the loan.

4. Find the names of all branches in the loan relation.
5. Find all loan numbers for loans made at the “Downtown” branch with loan amounts greater that $1000.
6. Find the loan number of those loans with loan amounts between $1,400 and $2,000.
7. For all customers who have a loan from the bank, find their names, loan numbers.
8. For all customers who have a loan from the bank, find their names, loan numbers, and loan amount.
9. Find the names of all branches that have assets greater than at least one branch located in Horseneck.
10. Find the names of all customers whose street address includes the substring ‘’North’’.
11. List the name of the customers in alphabetical order, who have a loan at the “Perryridge” branch.
12. Find the average account balance at each branch.
13. Find the number of depositors for each branch.
14. Find all loan numbers that appear in the loan relation with null values for amount.
15. Find all customers who have both a loan and an account at the bank.
16. Find all customers who have both an account and a loan at the Perryridge branch.
17. Find all customers who do have a loan at the bank, but do not have an account at the bank.
18. Find the names of all branches that have assets greater than those of at least one branch located in Brooklyn.
19. Write a Query for following situation.
    Bank wants to present a new $200 savings account as a gift to all loan customers of the Perryridge branch, for each loan they have.