4. More Queries on Bank Database

PROGRAM 4: More Queries on Bank Database
 Branch (branch-name: String, branch-city: String, assets: real)
BankAccount(accno: int, branch-name: String, balance: real)
BankCustomer (customer-name: String, customer-street: String, customer-city:
String)
Depositer(customer-name: String, accno: int)
LOAN (loan-number: int, branch-name: String, amount: real)

i.   Find all the customers who have an account at all the branches located in a specific city
        (Ex. Delhi).
ii.   Find all customers who have a loan at the bank but do not have an account.
        iii.   Find all customers who have both an account and a loan at the Bangalore branch .
iv.   Find the names of all branches that have greater assets than all branches located in
        Bangalore.
v.   Demonstrate how you delete all account tuples at every branch located in a specific city
        (Ex. Bombay).
vi.   Update the Balance of all accounts by 5%

Queries :

i. Find all the customers who have an account at all the branches located in a specific city
    (Ex. Delhi). SELECT customer_name FROM BankCustomer WHERE customer_city =
    'Delhi' AND NOT EXISTS (SELECT branch_name FROM Branch WHERE branch_city =
    'Delhi' AND NOT EXISTS (SELECT * FROM

customername
Nikil
Ravi

        BankAccount WHERE BankAccount.branch_name =
        Branch.branch_name AND BankCustomer.customer_name =
        Depositer.customer_name));

ii. Find all customers who have a loan at the bank but do not have an account.
        SELECT customer_name FROM BankCustomer WHERE EXISTS (SELECT * FROM
        Loan WHERE Loan.branch_name
        = Branch.branch_name AND NOT EXISTS (SELECT * FROM
        BankAccount WHERE

customername
Mohan

        BankAccount.branch_name = Branch.branch_name AND
        BankCustomer.customer_name =Depositer.customer_name));

iii. Find all customers who have both an account and a loan at the Bangalore branch.
        SELECT DISTINCT customer_name FROM BankCustomer WHERE
        EXISTS (SELECT * FROM
        BankAccount WHERE BankAccount.branch_name =
        'SBI_ResidencyRoad' AND

customername
Avinash
Dinesh
Nikil
Ravi

        BankCustomer.customer_name = Depositer.customer_name) AND
        EXISTS (SELECT * FROM
        Loan WHERE Loan.branch_name = 'SBI_ResidencyRoad' AND
        BankCustomer.customer_name=Depositer.customer_name);