

S2

Problem Statement:

Same relations as S1. Queries: customers with both account and loan; customers with account or loan; customers with account but no loan; average account balance at 'Wadia College'; number of depositors at each branch.

Code:

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-- S2: Queries (MySQL)
-- 1. Customers who have both account and loan
SELECT DISTINCT c.cust_name
FROM Customer c
WHERE EXISTS (SELECT 1 FROM Depositor d WHERE d.cust_name = c.cust_name)
      AND EXISTS (SELECT 1 FROM Borrower b WHERE b.cust_name = c.cust_name);

-- 2. Customers who have account or loan or both
SELECT DISTINCT cust_name
FROM (
    SELECT cust_name FROM Depositor
    UNION
    SELECT cust_name FROM Borrower
) AS t;

-- 3. Customers who have account but no loan
SELECT DISTINCT d.cust_name
FROM Depositor d
LEFT JOIN Borrower b ON d.cust_name = b.cust_name
WHERE b.cust_name IS NULL;

-- 4. Average account balance at 'Wadia College' branch
SELECT AVG(balance) AS avg_balance
FROM Account
WHERE branch_name = 'Wadia College';

-- 5. Number of depositors at each branch
SELECT a.branch_name, COUNT(DISTINCT d.cust_name) AS num_depositors
FROM Account a
LEFT JOIN Depositor d ON a.acc_no = d.acc_no
GROUP BY a.branch_name;
```