

S3

Problem Statement:

Same bank schema. Queries: branches where avg balance >15000; count tuples in customer; total loan amount; delete loans amount between 1300 and 1500; avg account balance each branch; customers starting with 'P'.

Code:

```
-- S3: Queries (MySQL)
-- 1. Branches where average account balance > 15000
SELECT branch_name
FROM Account
GROUP BY branch_name
HAVING AVG(balance) > 15000;

-- 2. Number of tuples in customer relation
SELECT COUNT(*) AS num_customers FROM Customer;

-- 3. Total loan amount given by bank
SELECT SUM(amount) AS total_loan_amount FROM Loan;

-- 4. Delete all loans with amount between 1300 and 1500
DELETE FROM Loan WHERE amount BETWEEN 1300 AND 1500;

-- 5. Average account balance at each branch
SELECT branch_name, AVG(balance) AS avg_balance
FROM Account
GROUP BY branch_name;

-- 6. Name of Customer and city where name starts with 'P'
SELECT cust_name, cust_city FROM Customer WHERE cust_name LIKE 'P%';
```