

Consider following Relation

```
Account(Acc_no, branch_name,balance)
Branch(branch_name,branch_city,assets)
Customer(cust_name,cust_street,cust_city)
Depositor(cust_name,acc_no)
Loan(loan_no,branch_name,amount)
Borrower(cust_name,loan_no)
```

Create above tables with appropriate constraints like primary key, foreign key, not null etc.

1. Find the branches where average account balance > 15000.
2. Find number of tuples in customer relation.
3. Calculate total loan amount given by bank.
4. Delete all loans with loan amount between 1300 and 1500.
5. Find the average account balance at each branch
6. Find name of Customer and city where customer name starts with Letter P.

-- Create tables

```
CREATE TABLE Account (
    Acc_no INT PRIMARY KEY,
    branch_name VARCHAR(255) NOT NULL,
    balance DECIMAL NOT NULL,
    FOREIGN KEY (branch_name) REFERENCES Branch(branch_name)
);
```

```
CREATE TABLE Branch (
    branch_name VARCHAR(255) PRIMARY KEY,
    branch_city VARCHAR(255) NOT NULL,
    assets DECIMAL NOT NULL
);
```

```
CREATE TABLE Customer (
    cust_name VARCHAR(255) PRIMARY KEY,
    cust_street VARCHAR(255) NOT NULL,
    cust_city VARCHAR(255) NOT NULL
);
```

```
CREATE TABLE Depositor (
    cust_name VARCHAR(255),
    acc_no INT,
    PRIMARY KEY (cust_name, acc_no),
    FOREIGN KEY (cust_name) REFERENCES Customer(cust_name),
    FOREIGN KEY (acc_no) REFERENCES Account(Acc_no)
);
```

```
CREATE TABLE Loan (
    loan_no INT PRIMARY KEY,
    branch_name VARCHAR(255) NOT NULL,
    amount DECIMAL NOT NULL,
    FOREIGN KEY (branch_name) REFERENCES Branch(branch_name)
);
```

```
CREATE TABLE Borrower (
    cust_name VARCHAR(255),
```

```
    loan_no INT,  
    PRIMARY KEY (cust_name, loan_no),  
    FOREIGN KEY (cust_name) REFERENCES Customer(cust_name),  
    FOREIGN KEY (loan_no) REFERENCES Loan(loan_no)  
);
```

-- Task 1: Find the branches where average account balance > 15000.

```
SELECT A.branch_name  
FROM Account A  
GROUP BY A.branch_name  
HAVING AVG(A.balance) > 15000;
```

-- Task 2: Find number of tuples in customer relation.

```
SELECT COUNT(*) AS num_tuples  
FROM Customer;
```

-- Task 3: Calculate total loan amount given by bank.

```
SELECT SUM(amount) AS total_loan_amount  
FROM Loan;
```

-- Task 4: Delete all loans with loan amount between 1300 and 1500.

```
DELETE FROM Loan  
WHERE amount BETWEEN 1300 AND 1500;
```

-- Task 5: Find the average account balance at each branch.

```
SELECT branch_name, AVG(balance) AS avg_balance  
FROM Account  
GROUP BY branch_name;
```

-- Task 6: Find name of Customer and city where customer name starts with Letter P.

```
SELECT cust_name, cust_city  
FROM Customer  
WHERE cust_name LIKE 'P%';
```