
DBMS – ASSESSMENT

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create three tables named as Bank, Account holder and Loan :

1.Bank Table:

```
CREATE TABLE Bank (  
    branch_id INT PRIMARY KEY,  
    branch_name VARCHAR(50),  
    branch_city VARCHAR(50)  
);
```

2.Account Holder Table:

```
CREATE TABLE Account_holder (  
    account_id INT PRIMARY KEY,  
    account_no VARCHAR(20),  
    account_holder_name VARCHAR(50),  
    branch_id INT,  
    city VARCHAR(50),  
    contact VARCHAR(15),  
    date_created DATE,  
    account_status VARCHAR(20), -- 'active' or 'terminated'  
    account_type VARCHAR(20),  
    balance DECIMAL(12,2),  
    FOREIGN KEY (branch_id) REFERENCES Bank(branch_id)  
);
```

3.Loan Table:

```
CREATE TABLE Loan (
```

```
loan_no INT PRIMARY KEY,  
branch_id INT,  
account_id INT,  
loan_amount DECIMAL(12,2),  
loan_type VARCHAR(20),  
FOREIGN KEY (branch_id) REFERENCES Bank(branch_id),  
FOREIGN KEY (account_id) REFERENCES Account_holder(account_id)  
);
```

-- Example: Transfer \$100 from account_id 1 to account_id 2

```
START TRANSACTION;
```

```
UPDATE Account_holder  
SET balance = balance - 100  
WHERE account_id = 1;
```

```
UPDATE Account_holder  
SET balance = balance + 100  
WHERE account_id = 2;
```

```
COMMIT;
```

```
SELECT * FROM Account_holder a1  
JOIN Account_holder a2  
ON a1.city = a2.city AND a1.account_id <> a2.account_id  
ORDER BY a1.city;
```

```
SELECT account_no, account_holder_name  
FROM Account_holder  
WHERE DAY(date_created) > 15;
```

```
SELECT branch_city, COUNT(*) AS branch_count  
FROM Bank  
GROUP BY branch_city;
```

```
SELECT a.account_id, a.account_holder_name, a.branch_id,  
       l.loan_amount, l.loan_type  
FROM Account_holder a  
JOIN Loan l ON a.account_id = l.account_id;
```