

## Experiment 4: More Queries on Bank Database

- Find all the customers who have an account at all the branches located in a specific city

```
SELECT bc.CustomerName
FROM BankCustomer bc
JOIN Depositer d ON bc.CustomerName = d.CustomerName
JOIN BankAccount ba ON d.AccNo = ba.AccNo
JOIN Branch b ON ba.BranchName = b.BranchName
WHERE b.BrachCity = 'Dharwad'
GROUP BY bc.CustomerName
HAVING COUNT(DISTINCT ba.BranchName) = (
    SELECT COUNT(*) FROM Branch WHERE BrachCity = 'Dharwad'
);
```



CustomerName

- Find all customers who have a loan at the bank but do not have an account

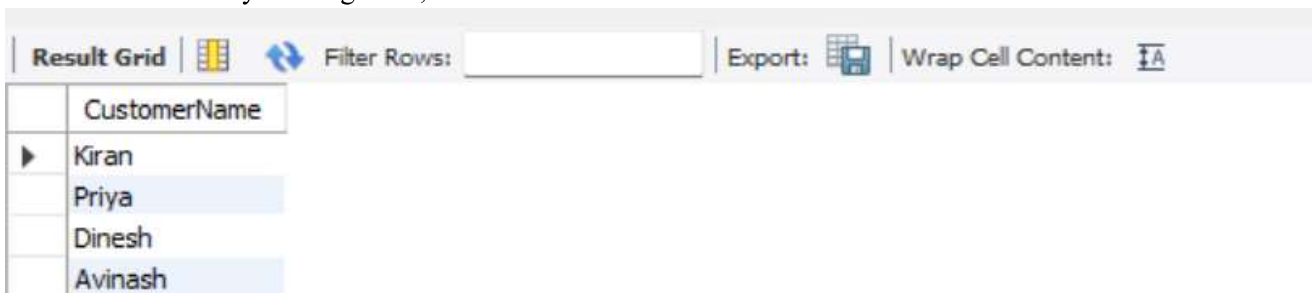
```
SELECT bc.CustomerName
FROM BankCustomer bc
LEFT JOIN Depositer d ON bc.CustomerName = d.CustomerName
WHERE d.CustomerName IS NULL;
```



CustomerName
Megha

- Find all customers who have both an account and a loan at the Bangalore branch

```
SELECT DISTINCT bc.CustomerName
FROM BankCustomer bc
JOIN Depositer d ON bc.CustomerName = d.CustomerName
JOIN BankAccount ba ON d.AccNo = ba.AccNo
JOIN Loan l ON ba.BranchName = l.BranchName
JOIN Branch b ON ba.BranchName = b.BranchName
WHERE b.BrachCity = 'Bangalore';
```



CustomerName
Kiran
Priya
Dinesh
Avinash

- Find the names of all branches that have greater assets than all branches located in Bangalore.

```
SELECT BranchName
FROM Branch
WHERE Assets > ALL (
    SELECT Assets FROM Branch WHERE BrachCity = 'Bangalore'
);
```

Result Grid	Filter Rows:	Edit:	Export/Import:	Wr
BranchName				
NULL				

- Demonstrate how you delete all account tuples at every branch located in a specific city

```
DELETE ba
FROM BankAccount ba
JOIN Branch b ON ba.BranchName = b.BranchName
WHERE b.BrachCity = 'Bombay';
```

32 13:31:38 DELETE ba FROM BankAccount ba JOIN Branch b ON ba.BranchName = b.Bran... 0 row(s) affected

- Update the Balance of all accounts by 5%

```
UPDATE BankAccount
SET Balance = Balance * 1.05;
```

33 13:34:25 UPDATE BankAccount SET Balance = Balance \* 1.05 10 row(s) affected Rows matched: 10 Changed: 10 Warnings: 0

select \* from BankAccount;

Result Grid	Filter Rows:	Edit:	Export/Import:	Wrap Cell Content:
AccNo	BranchName	Balance		
1	SBI_ResidencyRoad	21000		
2	SBI_ResidencyRoad	52500		
3	SBI_Indiranagar	15750		
4	SBI_Mysore	18900		
5	SBI_Mysore	36750		
6	SBI_Hubli	21000		
7	SBI_Dharwad	10500		
8	SBI_ResidencyRoad	26250		
9	SBI_Indiranagar	24150		
10	SBI_ResidencyRoad	31500		
NULL	NULL	NULL		