

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'  
)
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	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;
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	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';
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	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:	Wrap Cell Content:
	BranchName				

- 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			