

Find all customers who have an account at all the branches located in a specific city ex: Delhi

```

SELECT bc.customer_name
FROM bank_customer bc
WHERE NOT EXISTS (

    SELECT b.branch_name
    FROM branch b
    WHERE b.branch_city = 'Delhi'
    AND NOT EXISTS (
        SELECT 1
        FROM depositor d
        JOIN bank_account ba ON d.account_no = ba.account_no
        WHERE d.customer_name = bc.customer_name
        AND ba.branch_name = b.branch_name
    )
);

```

Result Grid		Filter
	customer_name	
▶	Nikhil	
	Ravi	
*	NULL	

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

```

SELECT DISTINCT lc.customer_name
FROM loan l
JOIN branch b ON l.branch_name = b.branch_name
LEFT JOIN bank_account ba ON l.branch_name = ba.branch_name
LEFT JOIN depositor d ON ba.account_no = d.account_no
JOIN bank_customer lc ON d.customer_name = lc.customer_name
WHERE d.customer_name IS NULL;

```

Result Grid	Filter Rows:
customer_name	

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

```

SELECT DISTINCT customer_name
FROM loan l JOIN bank_account ba ON l.branch_name = ba.branch_name
JOIN depositor d ON ba.account_no = d.account_no
WHERE l.branch_name = "Bangalore" AND ba.branch_name = "Bangalore";

```

Result Grid	Filter Rows:
customer_name	

Find the names of all the branches that have greater assets than all the branches located in Delhi

```

SELECT branch_name FROM branch
WHERE assets > all
(SELECT assets FROM branch WHERE branch_city = "Delhi");

```

Result Grid	Filter Rows:
branch_name	
SBI_Chamrajpet	
NULL	

Demonstrate how you delete all the account tuples at every branch located in a specific city ex: Delhi

```

DELETE FROM bank_account
WHERE branch_name IN (
    SELECT branch_name
    FROM branch
    WHERE branch_city = 'Delhi'
);

```

Update the annual interest payments are made and all branches are to be increased by 5%

```
ALTER TABLE bank_account  
ADD COLUMN interest_rate REAL DEFAULT 0.05;
```

```
UPDATE bank_account  
SET balance = balance + (balance * interest_rate);
```

```
UPDATE branch  
SET assets = assets * 1.05;
```