

WEEK – 4

More Queries on Bank Database

Branch (branch-name: String, branch-city: String, assets: real)
BankAccount(accno: int, branch-name: String, balance: real)
BankCustomer (customer-name: String, customer-street: String, customer-city: String)
Depositer(customer-name: String, accno: int)
LOAN (loan-number: int, branch-name: String, amount: real)

- i. Find all the customers who have an account at all the branches located in a specific city (Ex. Delhi).
- ii. Find all customers who have a loan at the bank but do not have an account.
- iii. Find all customers who have both an account and a loan at the Bangalore branch
- iv. Find the names of all branches that have greater assets than all branches located in Bangalore.
- v. Demonstrate how you delete all account tuples at every branch located in a specific city (Ex. Bombay).
- vi. Update the Balance of all accounts by 5%

```
> create table borrower(
  loan_no int primary key,
  customer_name varchar(20),
  foreign key(loan_no) references loan(loan_no),
  foreign key(customer_name) references bankcust(customer_name));

insert into borrower values
(1,'avinash'),
(2,'dinesh'),
(3,'avinash'),
(4,'nikil'),|
(5,'ravi');
```

Find all the customers who have an account at all the branches located in a specific city (Ex. Delhi).

```
select distinct(d.customer_name),b.branch_name,a.branch_city
from depositer d
join bankacc b on d.acc_no=b.acc_no
join branch a on b.branch_name=a.branch_name
where a.branch_city = 'delhi';
|
```

	customer_name	branch_name	branch_city
▶	ravi	sbi_jantarmantar	delhi
*	nikil	sbi_jantarmantar	delhi
	nikil	sbi_parliment	delhi

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

```
SELECT customer_name
FROM bankcust
WHERE customer_name NOT IN (
    SELECT customer_name
    FROM borrower
);

```

	customer_name
▶	mohan
*	NULL

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

```
select distinct(b.customer_name) from borrower b
join loan l on l.loan_no = b.loan_no
join bankacc a on l.branch_name = a.branch_name
join depositer d on a.acc_no = d.acc_no
where d.customer_name = b.customer_name;
```

	customer_name
▶	avinash
	dinesh
	nikil
	ravi

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

```
select b.branch_name from branch b
where b.assets_in_lakhs > all(
select assets_in_lakhs from branch
where branch_city = "bangalore");
```

	branch_name
*	NULL

Demonstrate how you delete all account tuples at every branch located in a specific city (Ex. Bombay).

```
delete from bankacc
where branch_name in (
select branch_name from branch
where branch_city = "bombay");
```

	acc_no	branch_name	balance
▶	1	sbi_chamraj	2000
	2	sbi_residency	5000
4		sbi_parliment	9000
5		sbi_jantarmantar	8000
7		sbi_residency	4000
8		sbi_parliment	3000
9		sbi_residency	5000
10		sbi_jantarmantar	2000
*	NULL	NULL	NULL

Update the Balance of all accounts by 5%

```
update bankacc  
set balance = balance * 1.05;
```

	acc_no	branch_name	balance
▶	1	sbi_chamraj	2100
	2	sbi_residency	5250
	4	sbi_parliment	9450
	5	sbi_jantarmantar	8400
	7	sbi_residency	4200
	8	sbi_parliment	3150
	9	sbi_residency	5250
	10	sbi_jantarmantar	2100
*	HULL	NULL	NULL