

## SQL ( SubQuery and more DML)

Students				Dept	
Roll	name	City	Deptno	Deptno	Name
1	Ajay	Delhi	10	10	CSE
2	Vijay	Kolkata	10	20	ECE
3	Ajay	Mumbai	20	30	Civil
4	Ramesh	Delhi	30	40	Mech
5	Suneeta	Lucknow	40		
6	Anita	Kolkata	30		
7	Raj	Jaipur	30		
8	Ali	Lucknow	40		
9	Michael	Cochin	10		
10	Pavan	Vijaywada	20		
11	Suraj	Hyderabad	10		
12	Altaf	Bangaluru	40		
13	Ravi	Indore	20		
14	Verma	Delhi	20		
15	Sharma	Vizag	10		

`.open univ`

It will open the university

`select city from students;`

It will select the city from student table

`select city from students where name = 'Ajay';`

It will select the city whose name is Ajay

`select * from students where city in ( select city from students where name = 'Ajay');`

The query in the bracket will execute first .

This query says that find the city names of all students where Ajay is living

# this is called as subquery

`select * from students where city in ( select city from students where name = 'Ali');`

Find the name of the students where Ali is living

#this is also called as inner query and we use in for multiple values

`select * from students where deptno = ( select deptno from students where name = 'Ajay');`

Find the students in dept where dept number is matching to the Ajay

```
select * from students where roll > ( select roll from students where name = 'Suraj');
```

Here we are using greater than . Find all the students whose roll number is greater than Suraj

```
select * from students where roll > ( select avg(roll) from students);
```

Find all the students whose roll number is greater than average than Suraj

```
select * from dept ;
```

Select all from dept

```
insert into dept values(60, 'EEE');
```

It will insert it into dept

```
select * from dept;
```

Select all from dept

```
delete from dept where dname='EEE';
```

Delete from whose dept name is EEE

```
select * from dept ;
```

Select all from dept

```
update dept set dname='Aero' where deptno=50;
```

We don't have to say from in this cause we are updating

```
select * from dept;
```

Select all from dept