

Update and Delete

--ddl(Data Definition Language)

--Foreign key always must be a primary key of different table

```
create table employee(  
  id int primary key,  
  emp_id int not null,  
  emp_roll_no varchar(10),  
  emp_name varchar(20) not null,  
  designation varchar(10) not null,  
  doj date not null, --YYYY-MM-DD  
  mob_no int not null,  
  email varchar(20) not null  
)
```

```
alter table employee drop column emp_name;
```

```
alter table employee add column emp_name varchar(20) not null;
```

```
alter table employee alter column emp_name type varchar(15);
```

```
drop table employee;
```

```
alter table employee alter column mob_no type bigint
```

```
create table address(  
  id int primary key,  
  emp_id int not null,  
  add_type varchar(10) not null,  
  city varchar(15) not null,  
  state varchar(15) not null,  
  line_one varchar(30) not null,  
  pin int not null,  
  constraint emp_id_fk foreign key(emp_id) references employee(id)  
)
```

```
drop table address;
```

```
create table salary(  
  id int primary key,  
  emp_id int not null,  
  basic int not null,  
  hra int not null,
```

```
pf int not null,  
allowance int,  
constraint emp_id_fk foreign key(emp_id) references employee(id)  
)  
drop table salary;
```

--dml(Data Manipulation Language)

```
insert into employee  
(id,emp_id,emp_roll_no,emp_name,designation,doj,mob_no,email)  
values  
(1,101,'QB101','Suthir','Intern','2023-01-12',6376889876,'ssuthir@gmail.com'),  
(2,102,'QB102','Tharun','Dev','2020-01-12',9987657899,'tharun@gmail.com'),  
(3,103,'QB103','Arun','Dev','2021-01-12',7512139876,'arune@gmail.com'),  
(4,104,'QB104','Kalai','Intern','2022-01-12',8872324242,'kalai@gmail.com'),  
(5,105,'QB105','Mahin','sdet','2019-01-12',8796889876,'mahin@gmail.com');
```

```
delete from employee where emp_name = 'Suthir';
```

```
insert into address (id,emp_id,add_type,city,state,line_one,pin)  
values (1,1,'current','Erode','Tamilnadu','Arasur,Erode',638454),  
(2,1,'permanent','Erode','Tamilnadu','Ekp,Erode',638454),  
(3,2,'current','Channasandra','Karnataka','Near greencity,Bangalore',568007),  
(4,3,'permanent','Atibele','Karnataka','Atibele,Bangalore',568006),  
(5,4,'current','Erode','Tamilnadu','Arasur,Erode',638454),  
(6,4,'permanent','Erode','Tamilnadu','Ekp,Erode',638454);
```

```
insert into salary (id,emp_id,basic,hra,pf,allowance)  
values (1,1,30000,4000,2000,15000),  
(2,2,50000,6000,4000,30000),  
(3,3,55000,7000,5000,32000),  
(4,4,25000,4000,2000,12000),  
(5,5,27000,4500,3000,12000);
```

```
select emp_name from employee;  
select emp_name,mob_no from employee;  
select * from employee;
```

```
select emp_name from employee  
where designation = 'Intern';
```

```
select emp_name from employee  
where designation != 'Intern';
```

```
select * from address
```

where add_type = 'permanent';

select * from employee **order by** emp_name **asc**;
select * from employee **order by** emp_name **desc**;

select id,designation, emp_name **as name** **from** employee **order by** 2 **desc**,3 **asc**;

select * from employee
where emp_name **like** 'A%';

select * from employee
where lower(emp_name) **like** 'a%';

select * from employee
where lower(emp_name) **like lower**('a%');

select * from employee
where upper(emp_name) **like** 'a%';

select upper(emp_name) **from** employee;

select concat(emp_name,emp_id) **from** employee;
select substring(emp_name,1,4) **from** employee;

select concat(**substring**(emp_name,1,4),id) **from** employee ;

--to select emp_name who joined btwn this date
select emp_name **from** employee **where** doj **between** '2020-01-01' **and** '2021-12-31';

--select * from salary where sum(basic,hra,pf,allowance);
select id , basic+hra+pf-allowance **as** inhandsal **from** salary;

--select designation,count(designation) from employee group by designation ;
select designation,**count**(1) **from** employee **group by** 1;
select designation,**count**(1) **from** employee **group by** 1 **having** (**count**(1)>1);

--left join--

--selects data from left table along with data match with right table
select t1.id,emp_name,t2.*
from employee t1

left join salary t2 **on** t1.id=t2.emp_id ;

select t1.id,emp_name,t2.line_one
from employee t1
left join address t2 **on** t1.id=t2.emp_id ;

select t1.id,emp_name,t2.*
from employee t1
left join address t2 **on** t1.id=t2.emp_id
where add_type = 'permanent';

--classical join--

select t1.id,emp_name,t2.*
from employee t1,salary t2
where t1.id = t2.emp_id;

--right join--

select t1.id,emp_name,t2.*
from employee t1
right join address t2 **on** t1.id=t2.emp_id ;
--where add_type = 'permanent';

--inner join--

select t1.id,emp_name,t2.*
from employee t1
inner join address t2 **on** t1.id=t2.emp_id
where add_type = 'permanent';

--full join--

select t1.id,emp_name,t2.*
from employee t1
full join address t2 **on** t1.id=t2.emp_id ;

----views

create view emp_sala **as**
select t1.id,emp_name,t2.hra
from employee t1
left join salary t2 **on** t1.id=t2.emp_id ;

---see own

---where and or > < = !=

-----in i.e desgn in ('QA','Intern')

select emp_name **from** employee **where** designation **in** ('Intern','sdet');--best one

select emp_name **from** employee **where** designation = 'Intern' **or** designation = 'sdet';

select * **from** employee **limit** 2 **offset** 2;--offset

select count(1) **from** employee;--to show rows count

select * **from** employee
where id **in** (1,2,3,4);

select * **from** employee
where id **in** (**select** id **from** salary);

select 1 **union all** **select** 2 ;

--**select** * **from** employee **where** id **in** (**select** 1 **union all** **select** 2);

select emp_name **from** employee **union all** **select** state **from** address; --for two tables with same data we can go for union to merge under single column

select distinct designation **from** employee;--unique designation will be shown

update employee **set** emp_roll_no = 'QB106' **where** id = 5;
select * **from** employee;

update employee **set** designation = 'Dev' **where** doj **between** '2022-01-12' **and** '2023-01-11';

update address **set** add_type = 'current' **where** id = 4 **or** city = 'Atibele';
select * **from** address;

```
delete from salary where basic = 27000;
```

```
delete from employee where id = 5 or emp_name = 'Mahin';
```