

create table contact(id serial,name varchar(50),city varchar(50),mob varchar(20),age int,gender varchar(20))

Select * from contact

insert into contact(name,city,mob,age,gender)values('rohit','bihar','9576440079',21,'male')

insert into contact(name,city,mob,age,gender)values('ramesh','pune','9576440079',25,'male');

insert into contact(name,city,mob,age,gender)values('laxmi','nashik','7484011494',26,'famale');

insert into contact(name,city,mob,age,gender)values('priya','pune','9576440079',22,'famale');

Select name,gender from contact

Select name,mob,age from contact

Select name,mob,age from contact where id=1

Select * from contact where city='nashik'

Select * from contact where gender='male'

Select * from contact where age <=25

Select * from contact where age >=25

Select * from contact where gender='famale' and city='nashik'

Select name,mob,city from contact

Select * from contact where gender='famale' AND city='pune' AND age>=20

Select * from contact where gender='famale' OR city='pune'

Select * from contact where name in('rohit' , 'laxmi')

Select * from contact where name not in('rohit')

Select * from contact where city in('pune','nashik','bihar')

Select * from contact where city in('nashik','bihar')

Select * from contact where city not in('nashik','bihar')

Select * from contact where city not in('pune')

Select * from contact where name in('rohit','priya')

Select * from contact where age in ('22')

Select * from contact where age between 15 and 25

Select * from contact order by name asc

Select * from contact order by name desc

Select * from contact order by age asc

Select * from contact order by age asc limit 2

Select * from contact order by age desc

Select * from contact order by age desc limit 1

Select * from contact limit 1 offSet 2

Select * from contact limit 2 offSet 2

--like patern

Select * from contact where name like 'r%' --begin

Select * from contact where name like '%h' --end

Select * from contact where name like '%a%' --between

Select * from contact where name like '_r%'

Select * from contact where name like '___i%'

Select * from contact where name like 'r%h'

--Agregate function

Select max(name) from contact

Select max(age) from contact

Select min(age) from contact

Select count(*) from contact

create table emp(id serial,name varchar(50),deg varchar(50),sal int)

Select * from emp

insert into emp(name,deg,sal)values('suresh','tl',154000);

insert into emp (name,deg,sal)values('ramesh','hr',50000);

insert into emp (name,deg,sal)values('shreesha','ceo',174000);

insert into emp (name,deg,sal)values('sonu','developer',44000);

insert into emp (name,deg,sal)values('monu','office boy',15000);

Select min(sal) from emp

Select max(sal) from emp

Select avg(sal) from emp

Select sum(sal) from emp

Select count(*) from emp

Select name ,sal from emp

Select name,max(sal) from emp

Select name,sal from emp where sal=174000

Select name,sal from emp where sal=(Select max (sal) from emp)

Select name,sal,deg from emp where sal=(Select max (sal) from emp)

Select name,sal from emp where sal=44000

Select name,sal from emp where sal=(Select min(sal)from emp)

Select name,sal,deg from emp where sal=(Select min(sal)from emp)

Select name,sal,deg from emp where sal<(Select max(sal)from emp)

Select name,sal,deg from emp where sal<(Select max(sal)from emp) order by sal desc

Select * from emp order by sal desc limit 1

Select * from emp order by sal asc limit 2

Select * from emp limit 1 offSet 2

Select * from emp limit 1 offSet 1

--without using ageregeta function

Select name,sal from emp order by sal desc limit 1 offset 1

Select 2+3

Select 2+8-5*4/2

Select 3+(8-5)*4/2

create table staff(id serial,name varchar(50),city varchar(50),mob varchar(15),age int,gender varchar(20),sal int)

Select * from staff

insert into staff(name,city,mob,age,gender,sal)values('suresh','nashik','9576440079',31,'male',25000);

insert into staff(name,city,mob,age,gender,sal)values('ramesh','pune','7484011494',25,'male',12000);

insert into staff(name,city,mob,age,gender,sal)values('laxmi','nashik','9576440079',26,'famale',5400);

insert into staff(name,city,mob,age,gender,sal)values('priya','bihar','9576440079',22,'famale',15000);

create table sub(sid serial,sname varchar(50),id int)

Select * from sub

insert into sub(sname,id)values('SQL',1);

insert into sub(sname,id)values('JAVA',1);

insert into sub(sname,id)values('PYTHON',1);

insert into sub(sname,id)values('C',2);

insert into sub(sname,id)values('CPP',2);

insert into sub(sname,id)values('HTML',3);

insert into sub(sname,id)values('CSS',4);

insert into sub(sname,id)values('REACT',3);

Select name,sname from staff,sub where sname='CSS' and staff.id=sub.id

Select name,sname from staff,sub where name='ramesh' and staff.id=sub.id

Select name,sname from staff,sub where sname='JAVA' and staff.id=sub.id

Select name,sname from staff,sub where sname='REACT' and staff.id=sub.id

Select name,sname from staff,sub where name='ramesh' and staff.id=sub.id

Select name,sname from staff,sub where name='priya' and staff.id=sub.id

Select name,sname,sal from staff,sub where sname='PYTHON' and staff.id=sub.id

Select name,sname,city,mob,sal from staff,sub where name='priya' and staff.id=sub.id

Select name,sal from staff limit 1 offset 2

Select name,sal from staff where sal=(Select max(sal)from staff)

Select name,sal from staff where sal=(Select min(sal)from staff)

Select name,sname,city,mob,sal from staff,sub where city='pune' and staff.id=sub.id

Select name,sname,city from staff,sub where city='bihar' and staff.id=sub.id

Select count(*) from staff,sub where sname='PYTHON' and staff.id=sub.id

Select count(*) from staff,sub where sname='SQL' and staff.id=sub.id

Select name,sname,city,gender from staff,sub where gender='male' and staff.id=sub.id

Select name,sname,city,mob,gender from staff,sub where gender='female' and staff.id=sub.id

Select * from staff

Select * from sub

Select name,sname,city,gender from staff,sub where gender='female' and staff.id=sub.id

create table institute(iid serial,iname varchar(50),city varchar(50),mob varchar(10))

insert into institute(iname,city,mob)values('codingSeekho','pune','9576440079')

insert into institute(iname,city,mob)values('magdhUniversity','bihar','7484011494')

Select * from institute

create table stud(s_id serial,studname varchar(50),city varchar(50),mob varchar(10),collage varchar(50),subject varchar(20))

insert into stud(studname,city,mob,collage,subject)values('suresh','nashik','848507453','KTHN','JAVA')

insert into stud(studname,city,mob,collage,subject)values('ramesh','nashik','848507453','RYK','SQL');

insert into stud(studname,city,mob,collage,subject)values('monu','nashik','957644009','CNCS','HTML');

insert into stud(studname,city,mob,collage,subject)values('chinku','PUNE','848507453','KKW','CSS');

```
insert into stud(studname,city,mob,collage,subject)values('pinku','nashik','848507453','KTHN','PYTHON');
```

```
Select * from stud
```

```
create table tran(tid serial,id int,iid int,s_id int)
```

```
insert into tran(id,iid,s_id)values(1,1,1)
```

```
insert into tran(id,iid,s_id)values(2,2,2);
```

```
insert into tran(id,iid,s_id)values(3,1,3);
```

```
insert into tran(id,iid,s_id)values(4,2,4);
```

```
Select * from tran
```

```
Select name,sname,iname from staff,sub,institute,tran where staff.id=sub.id and staff.id=tran.id and  
institute.iid=tran.id
```

```
Select name,sname,iname,studname from staff,sub,institute,tran,stud where staff.id=sub.id and staff.id=tran.id  
and institute.iid=tran.id and stud.s_id=tran.s_id
```

```
Select name,sname from staff,sub where staff.id=sub.id
```

```
Select name,sname from staff INNER JOIN sub ON staff.id=sub.id
```

```
Select name,sname from staff LEFT JOIN sub On staff.id=sub.id
```

```
Select name,sname from staff right join sub on staff.id=sub.id
```

```
Select name,sname from staff full outer join sub on staff.id=sub.id
```

```
--union
```

```
Select name from staff union select sname from sub
```

```
create view sdata as select name,city,mob,sal from staff
```

```
Select * from sdata
```

```
Select * from contact
```

```
create view rohit as select name,city,mob,age,gender from contact
```

```
Select * from rohit
```

```
-- delete from
```

```
Select * from emp
```

```
delete from emp where id=3
```

```
update emp set name='rohit' where id=5
```

```
update emp set sal=sal+6000 where id=4
```

```
update emp set deg='ceo' where id=2
```

--delete all values

delete from emp

update emp set sal=sal+2000 where sal<50000

update emp set sal=sal-5000 where sal>100000

alter table emp add column city varchar(20)

alter table emp column city='bihar'

update emp set city='bihar'

update emp set city='pune' where id=1

Select * from emp

Select * from employee

update emp set city='patna' where id=2

alter table emp rename column sal to salary

alter table emp rename to employee

alter table employee rename to emp

Select * from contact

Select concat (name,mob) as fullname from contact where id=1

Select mob as phone from contact

Select name,city,mob as mobile from contact

Select city from contact

Select name from contact

Select distinct name from contact

Select upper(name) from contact

Select upper(gender) from contact

Select lower(name) from contact

Select name,length (name) as size from contact

Select name, mob,city,length (name) as size from contact

--add hota hai

Select * from contact

call add_contact('test','test','7896451236',30,'male')

CREATE PROCEDURE add_contact(name varchar,city varchar,mob varchar,age int,gender varchar)

```
LANGUAGE plpgsql

AS $$

BEGIN

    INSERT INTO contact(name,city,mob,age,gender)VALUES(name,city,mob,age,gender);

END;

$$;
```

--update hota hai

Select * from emp

```
CREATE OR REPLACE PROCEDURE update_sal()

LANGUAGE plpgsql

AS $$

BEGIN

    update emp set sal=sal+2000 where sal<50000;

        update emp set sal=sal-4000 where sal>75000;

END;

$$;

call update_sal();
```

--delete and update

```
CREATE OR REPLACE PROCEDURE update_sal(eid INT)

LANGUAGE plpgsql

AS $$

BEGIN

    update emp set sal=sal+2000 where sal<50000;

        delete from emp where id=eid;

END;

$$;
```

```
call updt_sal(4);

Select * from emp
```

Select * from emp

```
CREATE TABLE COMPANY(ID serial PRIMARY KEY NOT NULL,NAME TEXT NOT NULL, AGE INT NOT NULL,ADDRESS  
CHAR(50),SALARY REAL);
```

```
CREATE TABLE AUDIT(EMP_ID INT NOT NULL, ENTRY_DATE TEXT NOT NULL);
```

Select * from company

```
insert into company (name,age,address,salary)values('suresh',31,'nashik',5400)
```

```
insert into company (name,age,address,salary)values('ramesh',30,'pune',3400)
```

Select * from audit

```
CREATE OR REPLACE FUNCTION auditlog() RETURNS TRIGGER AS $$
```

```
BEGIN
```

```
    INSERT INTO AUDIT(EMP_ID,ENTRY_DATE)VALUES(NEW.ID,CURRENT_TIMESTAMP);
```

```
    RETURN NEW;
```

```
END;
```

```
$$ LANGUAGE plpgsql;
```

```
CREATE TRIGGER example_trigger
```

```
AFTER INSERT ON COMPANY
```

```
FOR EACH ROW
```

```
FUNCTION auditlog();
```

drop table food

```
create table food(fid serial,category varchar(50))
```

Select * from food

```
insert into food(category)values('veg');
```

```
insert into food(category)values('nonveg');
```

```
insert into food(category)values('jain');
```

```
insert into food(category)values('chinese');
```

```
update food set category='chinese' where fid=4
```



```
create table qty(qid serial,size varchar(30))--max size 239
```

```
drop table qty
```

```
Select * from qty
```

```
insert into qty(size)values('full');
```

```
insert into qty(size)values('half');
```

```
insert into qty(size)values('1/2');
```

```
insert into qty(size)values('1/4');
```

```
create table menu(mid serial,mname varchar(20),price int,fid int,qid int)
```

```
Select * from menu
```

```
insert into menu(mname,price,fid,qid)values('paneer',275,1,1)
```

```
insert into menu(mname,price,fid,qid)values('chicken',260,2,2)
```

```
insert into menu(mname,price,fid,qid)values('rice',75,3,1)
```

```
update menu set fid=3 where mid=3
```

```
Select mname,price,category,size from food,qty,menu where food.fid=menu.fid and qty.qid=menu.qid
```

```
create table users(uid serial,acno varchar(20),uname varchar(50),mob varchar(20),address varchar(50),openbal int)
```

```
Select * from users
```

```
insert into
```

```
users(acno,uname,mob,address,openbal)values('72130100187020','rohit','9576440079','mahewa',100000)
```

```
insert into
```

```
users(acno,uname,mob,address,openbal)values('52201100187020','mohit','9584440079','bihar',15000)
```

```
update users set openbal='100000' where uid=1
```

```
update users set openbal='15000' where uid=2
```

```
Select openbal from users where uid=1 --open balance
```

```
create table tra(tid serial,uid int,debit int,credit int,closebal int)
```

```
Select * from tra
```

```
insert into tra(uid,debit,credit,closebal)values(1,5000,0,95000);
```

update users set openbal=openbal-5000 where uid=1;

insert into tra(uid,debit,credit,closebal)values(1,0,15000,110000);

update users set openbal=openbal+15000 where uid=1;

Select * from tra;

insert into tra(uid,debit,credit,closebal)values(1,0,10000,120000);

update users set openbal=openbal+10000 where uid=1;

Select * from tra;

insert into tra(uid,debit,credit,closebal)values(2,0,20000,15000);

update users set openbal=openbal+20000 where uid=2;

Select * from tra;

Select sum(credit)from tra where uid=1

Select sum(credit)from tra where uid=2

Select sum(debit)from tra where uid=1

Select sum(debit)from tra where uid=2

create table loan(lid serial,loan_type varchar(20),roi float)

Select * from loan

insert into loan(loan_type,roi)values('hl',8.75);

insert into loan(loan_type,roi)values('pl',15.50);

insert into loan(loan_type,roi)values('cl',9.75);

insert into loan(loan_type,roi)values('bl',11.75);

insert into loan(loan_type,roi)values('el',9.75);

create table dist(did serial,uid int,lid int,loan_amt int)

Select * from dist

insert into dist(uid,lid,loan_amt)values(1,1,50000);

insert into dist(uid,lid,loan_amt)values(2,2,100000);

Select uname,loan_type,roi,loan_amt from users,loan,dist where users.uid=dist.uid and

```
create table rduser(uid serial,name varchar(50),address varchar(50),account varchar(20),panno  
varchar(20),rd_amt int)
```

```
Select * from rduser
```

```
insert into rduser(name,address,account,panno,rd_amt)values('suresh','nashik','3131298566','ph123654',1000)
```

```
insert into
```

```
rduser(name,address,account,panno,rd_amt)values('ramesh','nashik','3131298566','ph123654',30000)
```

```
create table trans(tid serial,uid int,rd_amt int,created_at TIMESTAMPTZ DEFAULT NOW())
```

```
Select *from trans
```

```
insert into trans(uid,rd_amt)values(1,2000)
```

```
insert into trans(uid,rd_amt)values(2,1000)
```

```
Select count(*)from trans where uid=1
```

```
Select sum(rd_amt)from trans where uid=1
```

```
Select name,rduser.rd_amt,trans.rd_amt as emi,created_at from rduser,trans where rduser.uid=trans.uid
```

```
Select rd_amt,(rd_amt*0.18)as interest,(rd_amt +(rd_amt*0.18)) as total_with_interest from trans
```

```
Select sum(rd_amt*0.18)as interest from trans where uid=1
```

Laptop of Eventory PostgreSQL

```
create table item(id serial,brand varchar(50),price int,ram int,storage varchar(50))
```

```
Select * from item
```

```
insert into item(brand,price,ram,storage)values('hp',37000,16,'512GB')
```

```
insert into item(brand,price,ram,storage)values('dell',50000,32,'512GB')
```

```
insert into item(brand,price,ram,storage)values('apple',75000,16,'512')
```

```
insert into item(brand,price,ram,storage)values('lenovo',25000,16,'256')
```

```
create table stock(sid serial,id int,stk int)
```

```
Select * from stock
```

```
insert into stock(id,stk)values(1,10)
```

```
insert into stock(id,stk)values(2,15)
```

```
insert into stock(id,stk)values(3,7)
```

```
insert into stock(id,stk)values(4,12)
```

```
Select brand,price,stk ram,storage from item,stock where item.id=stock.id
```

```
create table sale(sid serial,id int,qty int,total int)
```

```
Select * from sale
```

```
insert into sale(id,qty,total)values(1,5,5*37000);
```

```
update stock set stk=stk-5 where id=1;
```

```
Select * from sale
```

```
insert into sale(id,qty,total)values(2,1,50000);
```

```
update stock set stk=stk-1 where id=2;
```

```
insert into sale(id,qty,total)values(3,4,4*75000);
```

```
update stock set stk=stk-4 where id=3;
```

```
insert into sale(id,qty,total)values(1,7,7*37000);
```

```
update stock set stk=stk+7 where id=1;
```

```
insert into sale(id,qty,total)values(4,12,12*25000);
```

```
update stock set stk=stk-12 where id=4;
```

```
Select * from sale
```

```
Select brand,ram,storage,stk,qty,total from item,stock,sale where item.id=sale.id and stock.id=sale.id
```