#### Q.1) Practical Questions on PostgresSQL

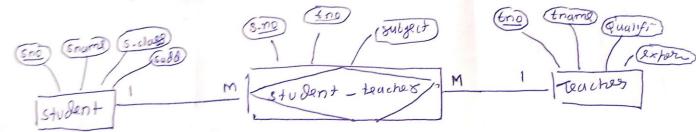
### Consider the following database

Student (sno, s\_name, s\_class, s\_addr)

Teacher (tno, t\_name, qualification, experience)

Student-Teacher: M-M with descriptive attributes Subject.

# a) Draw the ER diagram for above relational schema and normalize it in 3NF.



## b) Create the above database in 3NF form in PostgresSQL using constraints.

create table stud(sno int primary key, sname varchar(20), sclass text, addr text);

create table teacher(tno int primary key,tname varchar(20),qualification text,experience int);

create table stte(sno int,tno int,subject text,primary key(sno,tno),foreign key(sno)references stud(sno),foreign key(tno)references teacher(tno));

insert into stud values(1,'Kunal','FYBCA','Beed'),(2,'Hrushi','SYBCA','Alandi'),(3,'Tushar','TYBCA','Pune'),(4,'Adity a','FYBCA','Pimpri'),(5,'Sujal','SYBCA','Nashik');

insert into teacher values(11,'Mr.Rajesh','MPhil',5),(12,'Mr.Kumar','BED',4),(13,'Mrs.Tejaswee','MPhil',3),(14,'Mrs. Aarya','PhD',7),(15,'Mr.Kunal','Diploma',4);

insert into stte values(1,11,'DBMS'),(2,12,'Computer'),(3,13,'C'),(4,14,'OS'),(5,15,'CO'), (4,12,'DBMS'),(2,11,'OS');

### Q2.) Using above database, solve the following queries:

- a) List the students details who study in class 'S.Y.B.C.A'.
  - select \* from stud where sclass='SYBCA';
- b) Find subject wise teacher details.

select stte.subject,teacher.\* from stte join teacher on stte.tno=teacher.tno;

c) Count the total no. of students whose class is 'T.Y.B.C.A'

select count(\*)from stud where sclass='TYBCA';

d) Delete teacher details whose name is 'Mr. Rajesh'.

delete from teacher where tname='Mr.Rajesh';