```
//create database
create database student managment system
//creating table
//student table
create table student(
    student id serial primary key,
    email varchar(45) not null unique,
   password varchar(45) not null,
    firstname varchar(45) not null,
   lastname varchar(45) not null,
   status varchar(45) not null
);
//teacher table
create table teacher(
    teacher id serial primary key,
    email varchar(45) not null unique,
   password varchar(45) not null,
    firstname varchar(45) not null,
    lastname varchar(45) not null,
   phone varchar(45) not null
);
//class table
create table class (
   class id serial primary key,
    year varchar(15) not null,
    section char(3) not null,
   teacher id int not null,
    foreign key(teacher id) references teacher(teacher id)
)
//course table
create table course(
   course id serial primary key,
    course name varchar(45) not null,
    ects Int not null,
   grade char(3)
)
//exam table
create table exam(
    exam id serial primary key,
    name varchar(43) not null,
    description varchar(69) not null,
    start date Date not null,
    exam type varchar(30) not null
```

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//exam result table
create table exam result(
    exam id int not null,
    student_id int not null,
    course id int not null,
    marks varchar(45) not null,
    foreign key(exam id) references exam(exam id),
    foreign key(studnet id) references student(student id),
    foreign key(course id) references course(course id)
)
//course teacher table
create table course teacher (
    id serial primary key,
    course id int not null,
    teacher id int not null,
    foreign key(course id) references course(course id),
    foreign key(teacher id) references teacher(teacher id)
)
//class student table
create table class student (
    class id int not null,
    student id int not null,
    foreign key(class id) references class(class id),
    foreign key(student id) references student(student id)
//INSERTING DATE to student table
insert into student (email, password, firstname, lastname, status) values (
    "tekane@gmail.com", 'tek734', 'Tekane', 'Tekilu', 'regular'
insert into student (email, password, firstname, lastname, status) values (
    "selam@gmail.com", 'seli734', 'selam', 'kebede', 'exetension'
insert into student (email,password,firstname,lastname,status) values(
    "betty@gmail.com", 'bey734', 'Bety', 'abebe', 'regular'
insert into student (email, password, firstname, lastname, status) values (
    "derbe@gmail.com", 'der734', 'derbachew', 'lake', 'regular'
insert into student (email, password, firstname, lastname, status) values (
    "marta@gmail.com", 'mar734', 'maranata', 'Tekilu', 'regular'
//INSERTING DATE to teacher table
insert into student (email, password, firstname, lastname, status) values (
    "seifu@gmail.com", 'mar734', 'abebe', 'Tekilu', 'regular'
insert into student (email, password, firstname, lastname, status) values (
    "mark@gmail.com", 'mar734', 'markos', 'adane', 'regular'
```

```
insert into student (email, password, firstname, lastname, status) values (
    "getasew@gmail.com", 'mar734', 'getasewu', 'basiel', 'regular'
insert into student (email, password, firstname, lastname, status) values (
    "berhane@gmail.com", 'mar734', 'berhane', 'manjunat', 'regular'
insert into student (email, password, firstname, lastname, status) values (
    "nigist@gmail.com", 'mar734', 'nigist', 'melkamu', 'regular'
)
//Inseting data to class table
insert into class (year, section, teacher id) values (
    "2010", 'a',1
insert into class (year, section, teacher id) values (
    "2011", 'b',2
)
insert into class (year, section, teacher id) values (
   "2012",'c',3
insert into class (year, section, teacher id) values (
    "2013",'d',4
insert into class (year, section, teacher id) values (
    "2014",'f',5
//Inseting data to course table
insert into course (course name, ects, grade) values (
    "Fundamentals of It secutity", 7
insert into course (course name, ects, grade) values (
    "Computer Programming", 6, A
insert into course (course name, ects, grade) values (
    "distributed database system", 5, B
insert into course (course name, ects, grade) values (
    "advanced programming", 6, B
insert into course (course name, ects, grade) values (
   "Electronics",5
)
//Inseting data to exam table
insert into exam (name, description, start date, exam type) values (
    "Fundamentals of It secutity", "It is about IT
security", '12/09/2021', 'written'
insert into exam (name, description, start date, exam type) values (
    "Computer Programming", "programming skills", '02/04/2019', 'lab'
```

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insert into exam (name, description, start_date, exam_type) values(
    "distributed database system", 'about database
system','03/04/2018','written'
//Inseting data to exam result table
insert into exam result (exam id, student id, course id, marks) values (
    1,2,3,'good'
insert into exam result (exam id, student id, course id, marks) values (
    1,4,3,'very good'
)
insert into exam result (exam id, student id, course id, marks) values (
     1,1,4,'Excellent'
)
///Inseting data to class student table
insert into class student (class id, student id) values (
    1,2
insert into class student (class id, student id) values (
    1,4
insert into class student (class id, student id) values (
)
insert into class student (class id, student id) values (
)
insert into class student (class id, student id) values (
     1,1
)
///Inseting data to course teacher table
insert into course teacher (course id, teacher id) values (
    1,4
insert into course teacher (course id, teacher id) values (
     1,1
insert into course teacher (course id, teacher id) values (
insert into course teacher (course id, teacher id) values (
   1,1
//JOIN Query
SELECT * FROM class NATURAL JOIN exam result;
//UNION
```