```
iti=# create table track(track_id serial primary key, name char(25));
.REATE TABLE
  CHEAIE TABLE

tti=# create table if not exists student (student_id serial primary key, name char(25), email char(100), street char(25), city char(25), track_id integer references track (t
rack_id));
CREATE TABLE
iti=# create table student_phone (student_id integer references student (student_id), phone varchar(15), primary key (student_id, phone));
CREATE TABLE
 iti=# create table student ohone (student id integer references student (student id). phone varchar(15). primary kev (student id. phone)):
  ti=# create table
IREATE TABLE
Ltl=# select * from student
Ltl=#;
student_id | name | email | street | city | track_id
student_id | name | email | street | city | track_id
iti=# create table course (course_id serial primary key, name varchar(25), description text, max_scorev smallint);
CREATE TABLE
Iti=# create table exam(exam_id serial primary key, exam_date timestamp, course_id references course (course_id));
ERROR: syntax error at or near "references"
LINE 1: ...erial primary key, exam_date timestamp, course_id references...
  iti=# create table exam(exam_id serial primary key, exam_date timestamp, course_id integer references course (course_id));

CREATE TABLE

iti=# create table track_course (track_id integer references track (track_id), course_id integer references course (course_id), primary key (track_id, course_id));

CREATE TABLE

iti=# create table student_course (student_id integer references student (student_id), course_id integer references course (course_id), primary key (student_id,course_id));

CREATE TABLE

iti=# create table student_exam (student_id integer references student (student_id), exam_id integer references exam (exam_id), primary key (student_id,exam_id));

CREATE TABLE

iti=# \d
                                                         List of relations
Name | Type
     Schema I
                                                                                                                                      l Owner
public course public stander | table postgres public exam exam id_seq sequence postgres public exam exam id_seq sequence postgres public student table postgres public student table postgres public student_course table postgres public student_phone table postgres public student_phone table postgres public student_plone table postgres public student_student_id_seq sequence postgres public track course table postgres public track course table postgres public track sequence postgres public track sequence postgres public track sequence | table postgres public track sequence | sequence | postgres public track_track_id_seq | sequence | postgres public track_track_id_seq | sequence | postgres |
                                                                                                    | table
| secu
 iti=# 🗌
 iti=# insert into track (name) values ('fullstack using python'), ('fullstack using .net')
                                                               Table "public.track"
| Collation | Nullable |
     Column | Type | Coll
track_id | integer |
name | character(25) |
                                                                                                                                                                                                                Default
                                                                                                          | not null | nextval('track_track_id_seq'::regclass)
 Indexes:

"track_pkey" PRIMARY KEY, btree (track_id)

Referenced by:
            erenced by:
TABLE "student" CONSTRAINT "student_track_id_fkey" FOREIGN KEY (track_id) REFERENCES track(track_id)
TABLE "track_course" CONSTRAINT "track_course_track_id_fkey" FOREIGN KEY (track_id) REFERENCES track(track_id)
     ti=# select * from track
ti-# ;
track_id | name
            1 | fullstack using python
2 | fullstack using .net
  (2 rows)
 iti=# insert into track (name) values ('cyber security'), ('aws'), ('2d graphic')
 ,
INSERT 0 3
iti=# select * from track
                      1 | fullstack using python
2 | fullstack using .net
3 | cyber security
4 | aws
                           4 | aws
5 | 2d graphic
 (5 rows)
iti=#
       i=# insert into student (name, email, street, city) values ('ahmed', 'ahmedigmail.com', 'mrour', 'fayoum'), ('ahmed'ggmail.com', 'mrour', 'fayoum'), ('ahmed', 'ahmed'ggmail.com', 'mrour', 'fayoum'), ('ahmed', 'ahmed'ggmail.com', 'mrour', 'fayoum'), ('ahmed', 'ahmed'ggmail.com', 'mrour', 'fayoum'),
     'ahmed', 'ahmeduegymatt.com
NSERT 0 5
ti=# select * from student
ti-# ;
ti=# select * from student
     ti=# insert into student (name, email, street, city) values ('ahmed', 'ahmedi@gmail.com', 'mrour', 'fayoum'), ('ahmed', 'ahmedi@gmail.com', 'mrour', 'fayoum'), ('ahmed', 'ahmedi@gmail.com', 'mrour', 'fayoum'), ('ahmed', 'ahmedi@gmail.com', 'mrour', 'fayoum');^C
tt=# updats totack_d = 1 where student_id = 1;
PDATE 1
United Select + from student
    ti=# update student set track_id = 1 where student_id = 2;

IPDATE 1 :

IFDATE 1 :

IFDATE 2 :

IFDATE 2 :

IFDATE 3 :

IFDATE 3 :

IFDATE 3 :

IFDATE 4 :

IFDATE 4 :

IFDATE 5 :

IFDATE 5 :

IFDATE 5 :

IFDATE 6 :

IFDATE
```

```
iti=# 🛚
iti=# insert into student_phone (student_id, phone) values (1, '01141829471'), (1, '01092429329')
,(3, '88887665445'), (4, '765543567757');
INSERT 0 4
   iti=# select * from student_phone
   iti-#;
          student_id |
                                                                                                                                                 phone
                                                                                                 1 | 01141829471
                                                                                                  1 | 01092429329
                                                                                                  3 | 88887665445
                                                                                                                                     765543567757
   (4 rows)
   iti=# 🗌
      tie# insert into course (name, description, max.score) values ('client side', 'it is about html & css & js', 100), ('database', 'it is about database', 100), ('react', 'it is about react', 100), ('networking', 15ER 0 & 
                                                                                                                                                                                                                                                   | max_score
                                     1 | client side | the about html & css & js
2 | database | it is about database |
3 | react | it is about react |
4 | networking | it is about networking |
5 | django | it is about database |
1 | the about database |
1 | 
                                             ert into exam (exam_date, course_id) values (now(), 1), ('2024-04-14 18:50:50', 2), ('2024-07-7 18:50:43', 3), (now(), 5);
                                             2024-07-29 18:53:22.26751 |
2024-04-14 18:50:50 |
2024-07-07 18:50:43 |
2024-07-29 18:53:22.26751 |
iti=# []
                                             rt into track_course (track_id, course_id) values (1, 1), (1, 2), (1, 3), (1, 5), (2, 1), (2, 6), (3, 4);
      ti=# insert thto close
NSERT 0 7
ti=# select * from track_course
ti-#;
track_id | course_id
```