Q3- Create a view for student names with their Tracks names which is belong to it.

Q4- Create a view for Tracks names and the subjects which is belong/study to it.

```
iti=# CREATE VIEW track_courses AS
SELECT
    track.name AS track_name,
string_agg(course.name, ', ') AS courses
FROM
    track course
JOIN
    track ON track_course.track_id = track.track_id
JOIN
    course ON track_course.course_id = course.course_id
GROUP BY
   track.name;
CREATE VIEW
iti=# select * from track_courses;
         track_name
                                                    courses
                                | networking
| client side, .net
| client side, database, react, django
 cyber security
 fullstack using .net
fullstack using python
(3 rows)
```

Q5- Create a view for student names with their subject's names which will study.

```
iti=# create view student_courses as select (s.first_name || ' ' || s.last_name) as full_name, c.name as course_name from student s join track_course tr on s.track_id = tr.track_id join course c on c.course_id = tr.course_id;

CREATE VIEW
iti=# select * from student_courses;
full_name | course_name
 ahmed nabil
                       client side
                       client side
client side
 Mohammed ali
 ahmed ali
 ahmed nabil
                        database
 Mohammed ali
                       database
 ahmed ali
                        database
 ahmed att
ahmed nabil
Mohammed ali
ahmed ali
                        react
                        react
                        react
 ahmed nabil
                        django
 Mohammed ali
ahmed ali
nabil ali
nabil ali
                        django
                       django
                        client side
                       networking
 nabil ali
(15 rows)
iti=#
```

Q6- Create a view for all students name (Full Name) with their score in each subject and its date.

```
CREATE VIEW
iti=# select * from student_exams
iti-# ;
full_name | score | _______e
                                         exam_date
                       80 | 2024-07-29 18:53:22.26751

90 | 2024-07-29 18:53:22.26751

98 | 2024-07-07 18:50:43

87 | 2024-07-29 18:53:22.26751

70 | 2024-07-07 18:50:43

95 | 2024-07-07 18:50:43
 ahmed ali
 Mohammed ali
nabil ali
nabil ali
nabil ali
 ahmed nabil
(6 rows)
iti=#
```

Q7- Create a temporary view for all subjects with their max_score.

```
iti=# create TEMPORARY view course_max_grade as select name, max_score from course;
CREATE VIEW iti=# select * from course_max_grade;
               | max_score
   name
client side |
networking |
                        100
                         100
                        100
                         80
85
react
database
                          90
 django
(6 rows)
iti=#
```

Q10- (from Q.6) Display the date of exam as the following: day 'month name' year.

```
iti=# select full_name,
full_name | score |
                               score, to_char(exam_date, 'day month YYYY') as exam_date from student_exams;
                  | score |
                                        exam_date
                                            july
july
july
july
july
july
 ahmed ali
                                                         2024
                        80 | monday
 Mohammed ali
nabil ali
                                                         2024
2024
                               monday
                               sunday
                                                         2024
2024
 nabil ali
                             | monday
                        70 | sunday
95 | sunday
 nabil ali
 ahmed nabil
                                                         2024
(6 rows)
iti=#
```

Q11- Display name and age of each students

```
iti=# select (first_name || ' ' || last_name) as full_name , age(now(), birth_date) from student;
full_name | age

nabil ali | 33 years 1 day 22:53:58.757914
nabil ali | 33 years 1 day 22:53:58.757914
ahmed ali | 33 years 1 day 22:53:58.757914
Mohammed ali | 33 years 1 day 22:53:58.757914
nabil ali | 33 years 1 day 22:53:58.757914
nabil ali | 33 years 1 day 22:53:58.757914
nabil ali | 33 years 1 day 22:53:58.757914
ahmed nabil | 3 days 22:53:58.757914
(7 rows)

iti=#
```

Q12- Display the name of students with their Rounded score in each subject

Q13- Display the name of students with the year of Birthdate

Q14- Add new exam result, in date column use NOW() function;

```
iti=# insert into exam (exam_date) values (now());
INSERT 0 1
iti=# ■
```

Q15- Create database called ITI, and create different schema and Tables inside this Schema

```
iti=# CREATE SCHEMA hr;
CREATE SCHEMA
iti=# CREATE SCHEMA finance;
CREATE SCHEMA
iti=# CREATE TABLE hr.employees (
    employee_id SERIAL PRIMARY KEY,
    first_name VARCHAR(50),
   last_name VARCHAR(50),
    email VARCHAR(100),
    hire_date DATE
);
CREATE TABLE
iti=# CREATE TABLE finance.transactions (
    transaction_id SERIAL PRIMARY KEY,
    account_number INT,
    transaction_type VARCHAR(50),
    amount DECIMAL(10, 2),
    transaction_date DATE
);
CREATE_TABLE
iti=#
```