#### Lab 2:

6. Create a view for student names with their subjects' names which they will study.

7. Create a view for tracks names and the subjects which belong to it.

```
iti=# create view track_sub_view as
select track.track_name , subject.sub_name
from track join track_sub on track.id = track_sub.track_id
join subject on track_sub.sub_id = subject.id;
CREATE VIEW
iti=# select * from track_sub_view;
track_name | sub_name

python | data structure
java | oop
c++ | os
(3 rows)
iti=#
```

# Lab 3 1-Write a query to find out which subjects are not associated with any track.

### 2- Display name and age of each students

# 3-Display the name of students with their rounded score in each subject

# 4-Display the name of students with the year of Birthdate

### 5-Add new exam result, in date column use NOW() function

6-Write a query to calculate the average grade obtained by a specific student across all exams.

```
iti=# CREATE OR REPLACE FUNCTION get_student_avg_grade(u_id INT)
RETURNS NUMERIC AS $$
DECLARE
    avg_grade NUMERIC;
BEGIN
   SELECT avg(grade)
    INTO avg grade
   FROM grades
   WHERE student id = u id;
    RETURN avg_grade;
END;
$$ LANGUAGE plpgsql;
CREATE FUNCTION
iti=# select get_student_avg_grade(1);
get_student_avg_grade
  91.0000000000000000
```

7-Write a query to replace all occurrences of 'gmail.com' in email addresses with 'iti.com'.

```
iti=# update student
set email = REPLACE(email, 'gmail.com', 'iti.com')
where email LIKE '%gmail.com';
UPDATE 4
iti=# select * from student
iti-#;
id | e_name |
                email | address | track_id | birth_date | gender
                      | cairo
 4 | Ahmed | ahmed
                                            2 | 2001-11-13 | male
 1 | Hajar | hajar@iti.com | Assuit |
                                            3 I
 2 | Amira | amira@iti.com | Assuit |
                                            1 |
 3 | Sara | sara@iti.com | Alex
                                            1
                                           3 | 2002-04-05 | male
 5 | Ali
           | ali@iti.com | Aswan |
(5 rows)
```

8-Write a query to calculate the difference in days between the current date and each exam date.

9-Write a query to check if each student's email address ends with '.com'.

10-Display each exam date like 'MM/DD/YYYY'.