UNIT 1.2 GRADED ASSIGNMENT 2

SQL FIDDLE

Group members

Ifra Saleem (2303.khi.deg.003)
Muhammad Khan (2303.khi.deg.027)

UNIT 1.2 GRADED ASSIGNMENT 2

Problem:

Create a new SQLFiddle and then add the database from db.sql (provided in tasks/1_introduction/day_2_basic_tooling/hands_on_sql) to be able to perform queries. Your task then is to do two things:

1. Insert two articles written by Joe (id 3) into articles table (choosing the titles is up to you).
2. Write a query that will return you a list of articles written by authors who are at least 25 years old.

Solution:

1. **Insert two articles written by Joe (id 3) into articles table (choosing the titles is up to you).**

Query:

INSERT INTO articles(author_id, title) VALUES (3,'Extreme Programming'),(3,'Introduction to Programming');

2. **Write a query that will return you a list of articles written by authors who are at least 25 years old.**

Query:

SELECT articles.title, users.name, users.age

FROM articles

JOIN users ON articles.author_id = users.id

WHERE users.age >= 25;

```
CREATE TABLE users(id SERIAL UNIQUE PRIMARY KEY, name VARCHAR, age INT);
CREATE TABLE articles(
    id SERIAL,
    author_id BIGINT,
    title VARCHAR,
    FOREIGN KEY(author_id) REFERENCES users(id));
INSERT INTO users(id, name, age) VALUES (1, 'John', 30), (2, 'Mary', 24), (3,
INSERT INTO articles(author_id, title) VALUES
    (1, 'How to become famous'),
    (1, 'How to stop being famous'),
    (2, 'How to write interesting articles');
```

Build Schema | Edit Fullscreen | Browser | [;]

```
INSERT INTO articles(author_id, title) VALUES
(3,'Extreme Programming'),(3,'Introduction to Programming');

SELECT articles.title, users.name, users.age
FROM articles
JOIN users ON articles.author_id = users.id
WHERE users.age >= 25;
```

Run SQL | Edit Fullscreen | [;]

Explanation of the code:

We have the schema of the database which has two table users and articles and, in the schema, the users table have the columns id, name and age.

And the articles tables have the columns author_id and title. We insert some values to the columns of both the tables.

Now according to the **task 1** we INSERT two articles written by author Joe (id 3) in the articles table by giving the values of author_id and title.

According to the **task 2** the SELECT statement specifies the columns which we want to retrieve which is title of the article, name and age of the user. Then we are using JOIN keyword to join the articles table and the users table according to the condition mentioned using the ON keyword. It joins the users and articles table based on the author_id field matching the id field in the users table.

Using WHERE keyword we are filtering the result and it indicates that only the users with the age equals to or greater than 25 will be included in the result and it will only show the articles of the authors with the age atleast 25.

Output:

title	name	age
How to become famous	John	30
How to stop being famous	John	30
Extreme Programming	Joe	56
Introduction to Programming	Joe	56