

NAME : MUHAMMAD HUSSAM(2303.KHI.DEG.020)

PARTNER : ARSHAD SHIWANI (2303.KHI.DEG.026)

Assignment_2_Day_2

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:

```
SQL Fiddle PostgreSQL 9.6 View Sample Fiddle Clear Text to DDL

1
2 CREATE TABLE users (
3     id SERIAL UNIQUE PRIMARY KEY,
4     name VARCHAR,
5     age INT);
6 CREATE TABLE articles(
7     id SERIAL,
8     author_id BIGINT,
9     title VARCHAR,
10    FOREIGN KEY(author_id) REFERENCES users(id));
11 INSERT INTO users (id, name, age) VALUES (1, 'John', 30), (2, 'Mary', 24), (3, 'Joe', 56);
12 INSERT INTO articles (author_id, title) VALUES
13 (1, 'How to become famous'),
14 (1, 'How to stop being famous'),
15 (2, 'How to write interesting articles'),
16 (3, 'How to be Productive'),
17 (3, 'Is python helpful programming language?');
```

1. We inserted two articles written by Joe into the articles table whose id = 3, these two articles are:

“How to be productive. “

“Is python helpful programming language?”

```
1 SELECT articles.id, articles.title, articles.author_id, users.name ,users.age
2 FROM articles
3 INNER JOIN users ON articles.author_id = users.id
4 WHERE users.age >= 25;
```

2. SELECT query selects :

"id" column from "articles" table.

"title" column from "articles" table.

"author_id" column from "articles" table.

"name" column from "users" table.

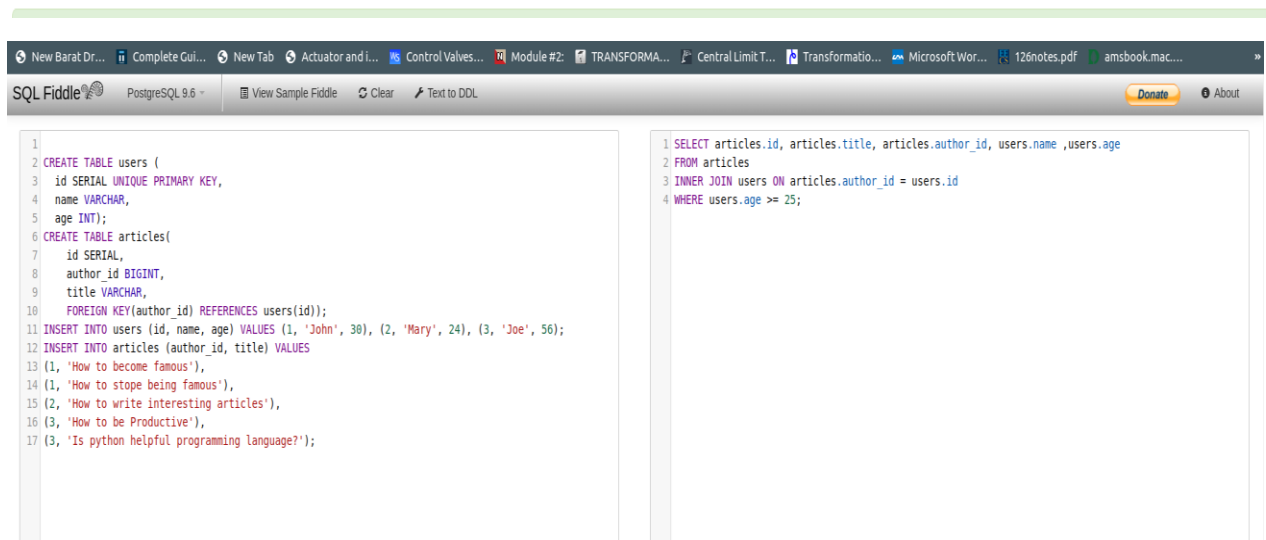
"age" column from "users" table.

3. FROM articles INNER JOIN users ON articles.author_id = users.id is used to join two tables, "articles" and "users", in a SELECT statement. Here, the INNER JOIN clause is used to combine data from both tables where the condition in the ON clause matches. The condition is that the value in the "author_id" column of the "articles" table should match the value in the "id" column of the "users" table.

4. With help of WHERE clause it will filter the list of articles written by author whose age is greater than or equal to 25.

OUTPUT: list of articles written by authors who are at least 25 years old as show below:

id	title	author_id	name	age
1	How to become famous	1	John	30
2	How to stope being famous	1	John	30
4	How to be productive.	3	Joe	56
5	Is python helpful programming language?	3	Joe	56



The screenshot shows the SQL Fiddle interface with two panels. The left panel contains the following SQL code:

```
1 CREATE TABLE users (  
2   id SERIAL UNIQUE PRIMARY KEY,  
3   name VARCHAR,  
4   age INT);  
5  
6 CREATE TABLE articles(  
7   id SERIAL,  
8   author_id BIGINT,  
9   title VARCHAR,  
10  FOREIGN KEY(author_id) REFERENCES users(id));  
11 INSERT INTO users (id, name, age) VALUES (1, 'John', 30), (2, 'Mary', 24), (3, 'Joe', 56);  
12 INSERT INTO articles (author_id, title) VALUES  
13 (1, 'How to become famous'),  
14 (1, 'How to stope being famous'),  
15 (2, 'How to write interesting articles'),  
16 (3, 'How to be Productive'),  
17 (3, 'Is python helpful programming language?');
```

The right panel shows the following SQL query:

```
1 SELECT articles.id, articles.title, articles.author_id, users.name ,users.age  
2 FROM articles  
3 INNER JOIN users ON articles.author_id = users.id  
4 WHERE users.age >= 25;
```

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SQL FiddlePostgreSQL 9.6View Sample FiddleClearText to DDLDonateAbout

```
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7   id SERIAL,
8   author_id BIGINT,
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2 FROM articles
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Build SchemaEdit FullscreenBrowser[:]

Run SQLEdit Fullscreen[:]

id	title	author_id	name	age
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2	How to stope being famous	1	John	30
4	How to be Productive	3	Joe	56
5	Is python helpful programming language?	3	Joe	56