

UNIT 1.2: Graded Assignment 2

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Collaborated with Hamza Mohammad Asim (2303.KHI.DEG.014). We discussed code with each other.

The screenshot shows the SQL Fiddle web application interface. The top navigation bar includes links to Gmail, YouTube, Maps, and a Python Compiler. The main header displays 'SQL Fiddle' and 'PostgreSQL 9.6'. Below the header, there are two text areas for SQL queries. The left text area contains the following SQL code:

```
1 CREATE TABLE users(id SERIAL UNIQUE PRIMARY KEY, name VARCHAR, age INT);
2 CREATE TABLE articles(
3   id SERIAL,
4   author_id BIGINT,
5   title VARCHAR,
6   FOREIGN KEY(author_id) REFERENCES users(id));
7 INSERT INTO users(id, name, age) VALUES (1, 'John', 30), (2, 'Mary', 24), (3, 'Joe', 56);
8 INSERT INTO articles(author_id, title) VALUES
9   (1, 'How to become famous'),
10  (1, 'How to stop being famous'),
11  (2, 'How to write interesting articles');
```

The right text area contains the following SQL code:

```
1 INSERT INTO articles(id, title) VALUES
2   (3, 'How to run efficient code'),
3   (3, 'How to be better in software engineering');
4 SELECT name, age, articles.title
5 FROM users
6 JOIN articles
7   ON users.id = articles.id
8 WHERE users.age >= 25;
```

Below the text areas are buttons for 'Build Schema', 'Edit Fullscreen', 'Browser', and 'Run SQL'. The 'Run SQL' button is highlighted. Below the buttons, a green status bar shows 'Record Count: 0; Execution Time: 0ms'. Below this, a table displays the results of the SQL queries:

name	age	title
John	30	How to become famous
Joe	56	How to write interesting articles
Joe	56	How to run efficient code
Joe	56	How to be better in software engineering

Below the table, another green status bar shows 'Record Count: 4; Execution Time: 9ms'.

- 1) Inserted 2 rows in the **articles** table for the id and title columns. Giving the id '3' to both rows, and the two different titles for both rows.
- 2) Then joined **users** table with **articles** table whilst selecting the 'name', and 'age' column from users and the 'title' column from articles.
- 3) **Filtered** for rows where age is greater than or equal to 25 using the WHERE clause.