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Step 1:

Create a database called "student" in pgAdmin4

Step 2:

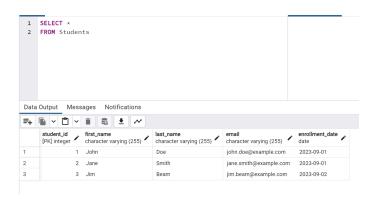
Create a new table using this create statement:

```
CREATE TABLE Students(
    student_id SERIAL PRIMARY KEY,
    first_name VARCHAR(255) NOT NULL,
    last_name VARCHAR(255) NOT NULL,
    email VARCHAR(255) NOT NULL UNIQUE,
    enrollment_date DATE
);
```

Step 3:

Add base values for testing

```
INSERT INTO students (first_name, last_name, email, enrollment_date) VALUES ('John', 'Doe', 'john.doe@example.com', '2023-09-01'), ('Jane', 'Smith', 'jane.smith@example.com', '2023-09-01'), ('Jim', 'Beam', 'jim.beam@example.com', '2023-09-02');
```



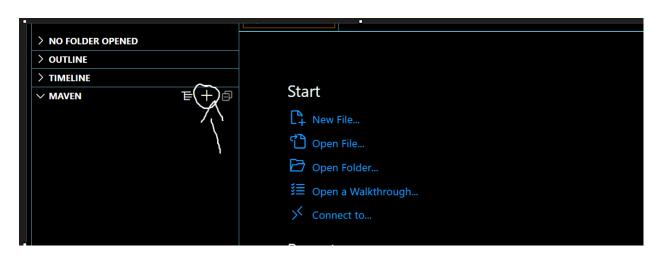
Step 4:

In VSCode, download the extension called "Extension Pack for Java"



Step 5:

Open VSCode and on the left side



Create a new maven project

Click on "maven-archetype-quickstart"

Then on "1.4"

Pick whatever name for artifact Id

Pick a directory

For where it say "Define value for property 'version' 1.0-SNAPSHOT:", enter "1.0" and then for where is say "Y:" enter "y"

Step 6:

In the pom.xml file, add the following between "<dependencies>" and "</dependencies>" If its doesnt exist, write it yourself

Note: this dependency works for Java 8. Dependency for other versions can be found here Home | pgJDBC (postgresql.org).

Don't need to download, you can just copy Maven.

Step 7:

Then to run the code, you can call any of the functions in the main with the correct parameters and run the code to see the results. There are also some tester functions that could be uncommented in main to test. The results should also show in the database

Username and password should be changed to whatever you use to sign in on your postgres

Youtube link:

https://youtu.be/aa9zShd-HfE