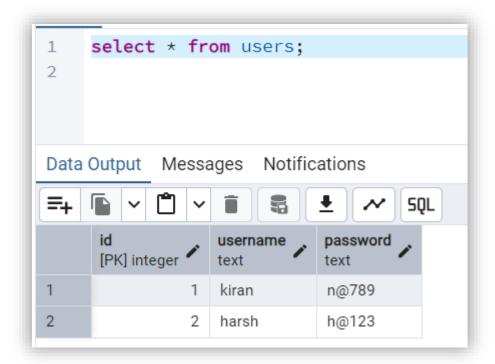
## **Creating User Table And DB Properties**

Let's see how to set up Spring Security with database authentication

- First, we need a database table to store user information. We'll create a users table with columns for:
  - id (primary key)
  - username
  - password
- ➤ We'll add records in users table



**Database Configuration in application.properties** 

We need to tell our Spring application how to connect to the PostgreSQL database:

```
# PostgreSQL Database Configuration
spring.datasource.url=jdbc:postgresql://localhost:5432/telusko
spring.datasource.username=postgres
spring.datasource.password=0000
spring.datasource.driver-class-name=org.postgresql.Driver
```



## > Adding Required Dependencies

To connect our Java application to the database using JPA, we need to add these dependencies to our pom.xml file:

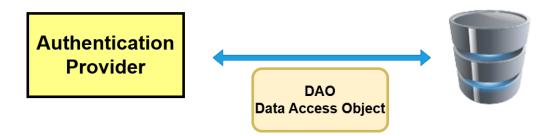
## **➤** Configuring Spring Security to Use Database Authentication

By default, Spring Security uses hardcoded values for authentication, but we want to use our database instead. We need to:

Learning the default Authentication Provider By default, Spring Security uses a built-in Authentication Provider that works with hardcoded values



Switch to a database-aware Authentication Provider We need to configure a new Authentication Provider that connects to our database



♣ Create a Users entity class Finally, we need to specify how our application maps to the database table using a Users entity class. This class will represent our users table in Java code.



- This setup allows our Spring Security to authenticate users against the database instead of using hardcoded credentials. When a user attempts to log in, Spring Security will:
  - Take the provided username and password
  - Use the Authentication Provider to check these credentials against our database
  - Grant or deny access based on whether the credentials match

