LU09.A02 - SQL- DCL: CREATE USER

Task 2.1

Create the User: Create a user named *restrictedUser* with the password *SafePassword123* using the *mysql_native_password* plugin.

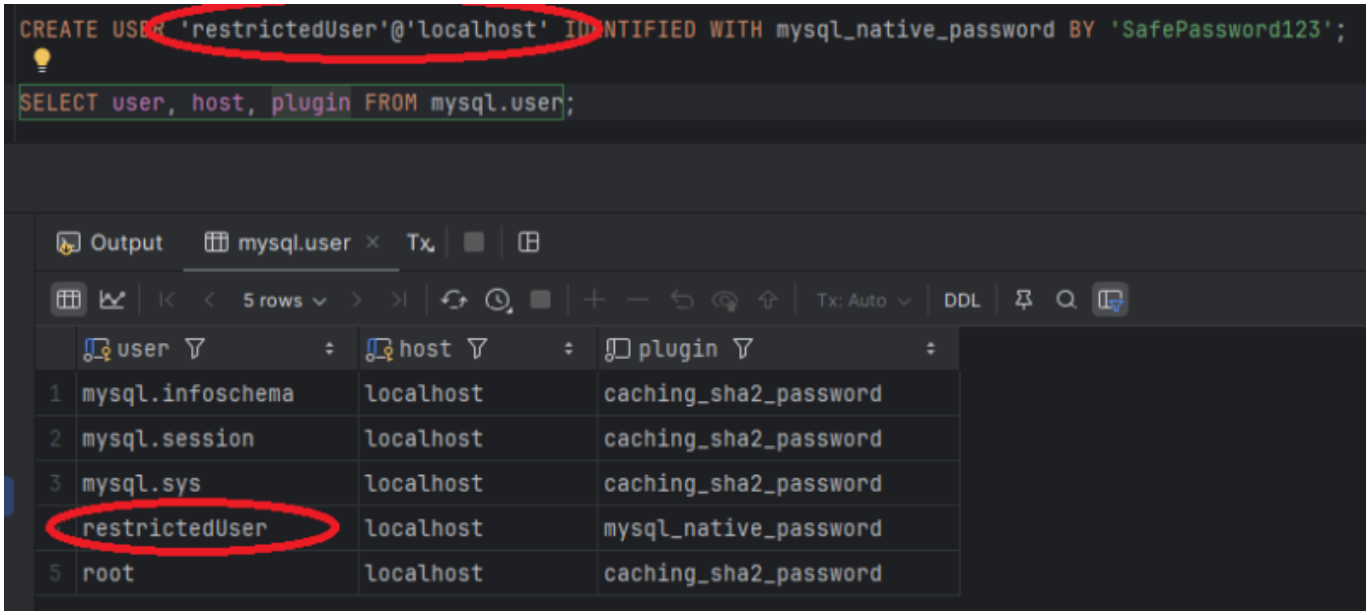
```
CREATE USER 'restrictedUser'@'localhost' IDENTIFIED WITH
mysql_native_password BY 'SafePassword123';
```

Task 2.2

Overview of the current privileges: Display all users.

```
SELECT user, host, plugin FROM mysql.user;
```

The result set should look like:



Task 2.3

Grant Privileges Without Table Management: Grant the user *restrictedUser* the ability to read and write data but not to create, alter, or drop tables. Use the following commands to give only the required privileges.

```
GRANT SELECT, INSERT, UPDATE, DELETE ON myDatabase.* TO
'restrictedUser'@'localhost';
```

Task 2.4

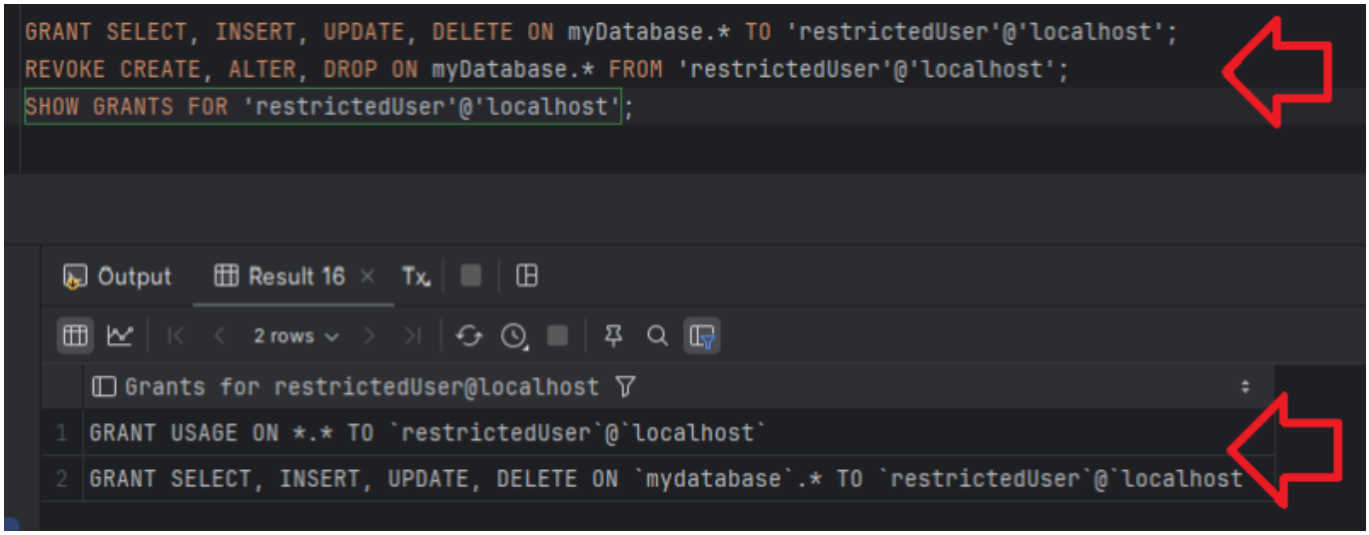
Rovoke Privileges: To be certain that nothing unintended can happen revoke the CREATE, ALTER, and DROP privileges explicitly.

```
REVOKE CREATE, ALTER, DROP ON myDatabase.* FROM
'restrictedUser'@'localhost';
```

Tasc 2.5

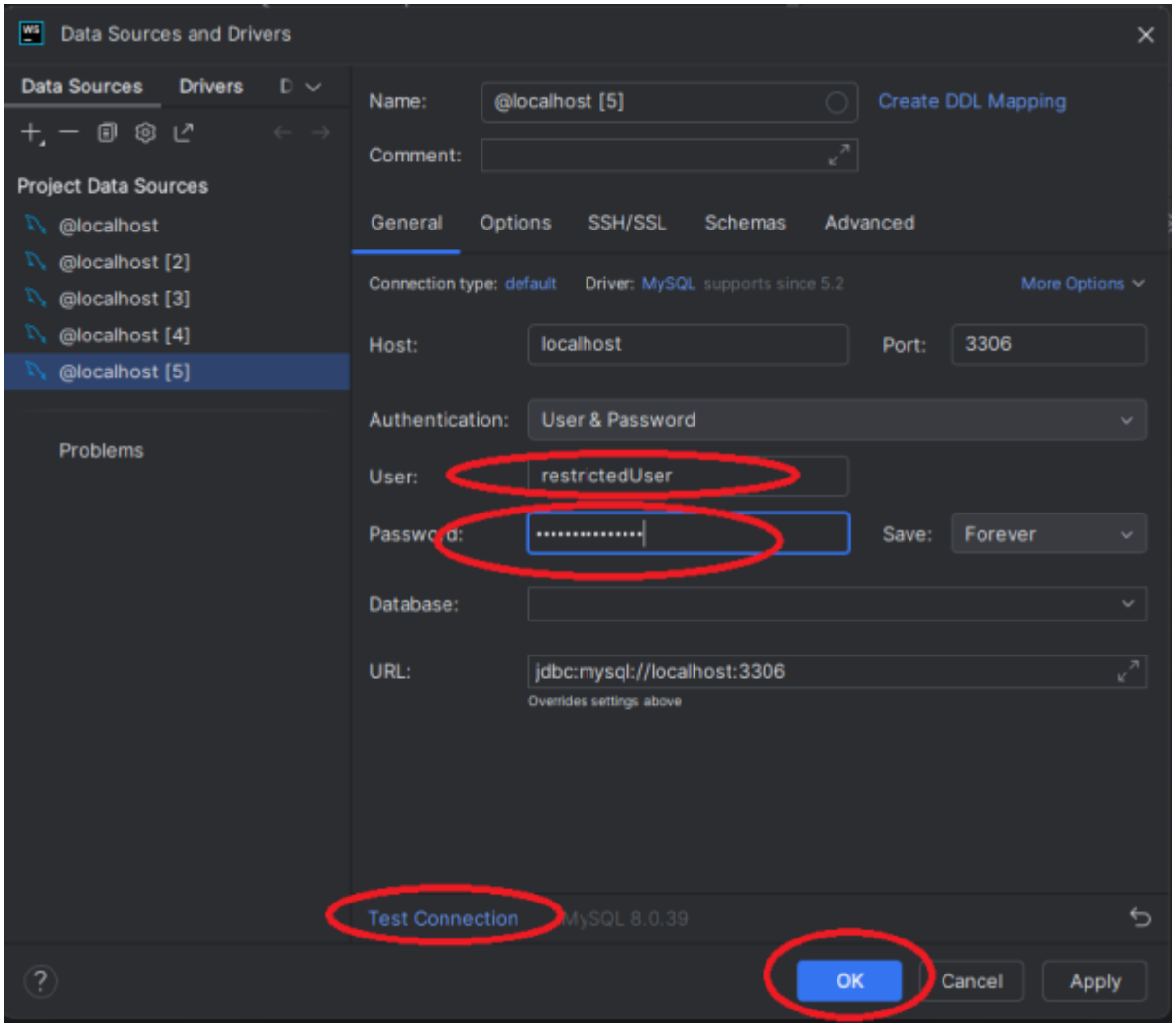
View the User's Privileges: Check the privileges to ensure that the user cannot manage tables.

```
SHOW GRANTS FOR 'restrictedUser'@'localhost';
```



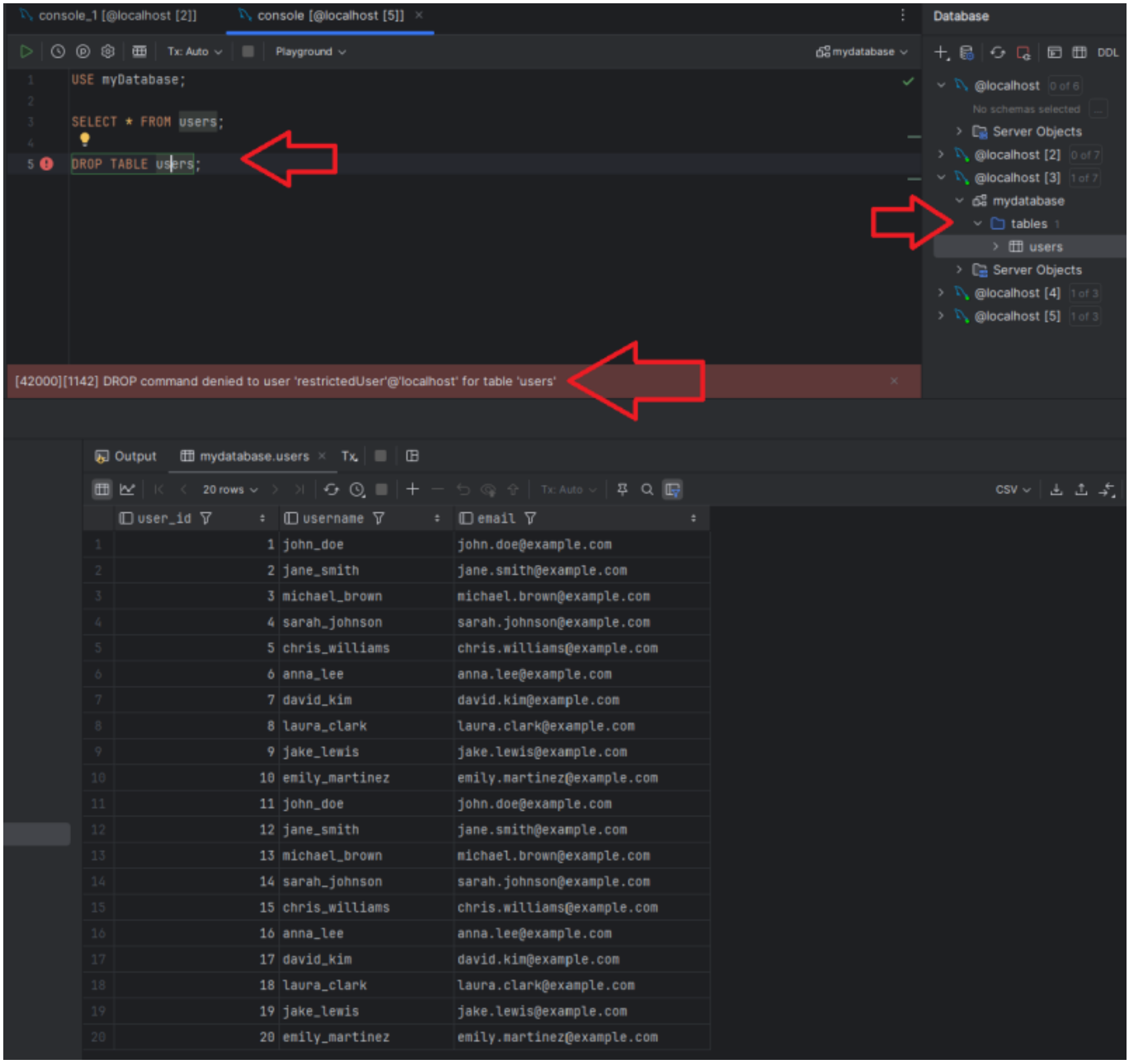
Task 2.6

Test the User's Access: Establish a new console connection to the database by using *restrictedUser + password*.



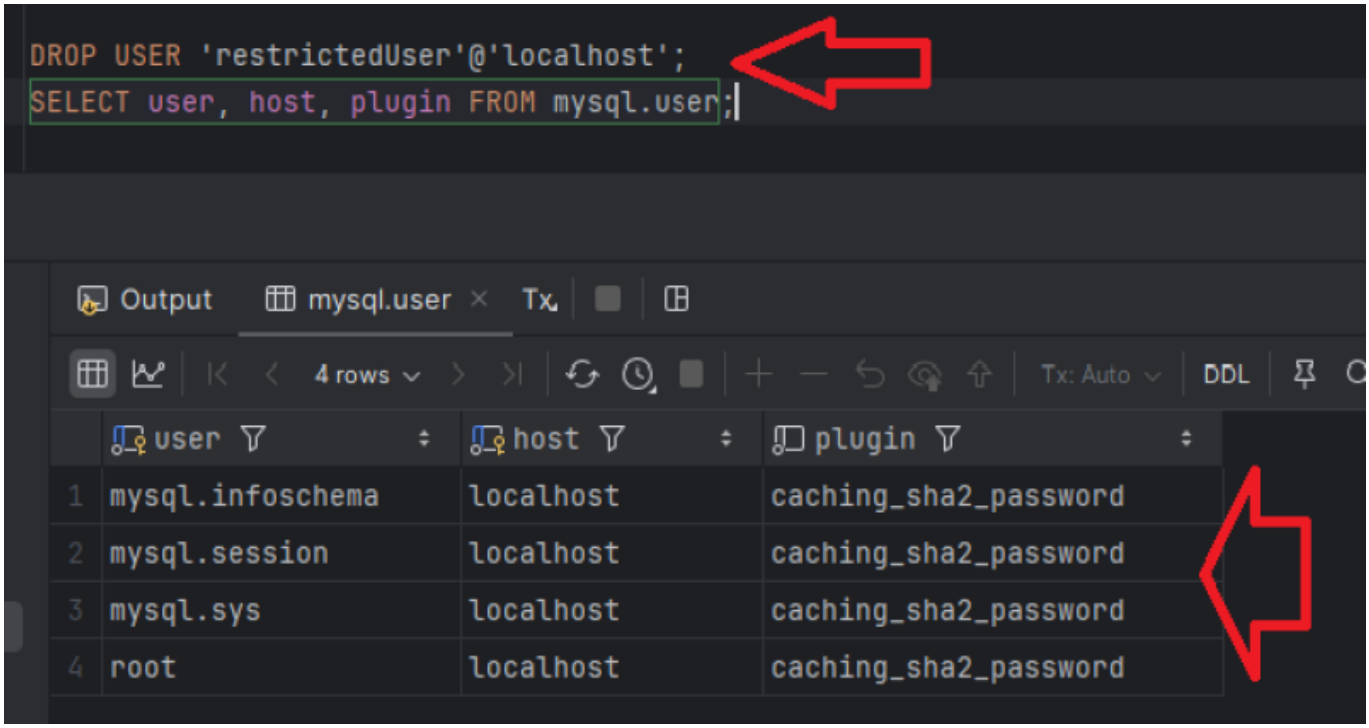
Task 2.7

Finally, try to perform a CREATE TABLE or DROP TABLE operation. The attempt should result in a permission error als displayed in the image below.



Task 2.8

Delete the User (optional): After testing, you can delete the user if they are no longer needed.



Vocabulary

English	German
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