**Assignment 6**

**Create a new database user with specific privileges using the CREATE USER and GRANT commands. Then, write a script to REVOKE certain privileges and DROP the user.**

**Step 1: Create a New Database User**

First, let's create a new database user. For this example, we'll create a user named test\_user with a password password123.

CREATE USER 'test\_user'@'localhost' IDENTIFIED BY 'password123';

**Step 2: Grant Specific Privileges to the User**

Next, we'll grant specific privileges to this user. For instance, let's grant SELECT, INSERT, UPDATE, and DELETE privileges on a database named test\_db.

GRANT SELECT, INSERT, UPDATE, DELETE ON test\_db.\* TO 'test\_user'@'localhost';

**Step 3: Revoke Certain Privileges**

Now, let's say we want to revoke the DELETE privilege from test\_user.

REVOKE DELETE ON test\_db.\* FROM 'test\_user'@'localhost';

**Step 4: Drop the User**

Finally, if we want to remove test\_user from the database, we can use the DROP USER command.

DROP USER 'test\_user'@'localhost';

**Explanation**

* CREATE USER 'test\_user'@'localhost' IDENTIFIED BY 'password123'; creates a new user test\_user with the specified password.
* GRANT SELECT, INSERT, UPDATE, DELETE ON test\_db.\* TO 'test\_user'@'localhost'; grants the SELECT, INSERT, UPDATE, and DELETE privileges on all tables in the test\_db database to test\_user.
* REVOKE DELETE ON test\_db.\* FROM 'test\_user'@'localhost'; revokes the DELETE privilege from test\_user on the test\_db database.
* DROP USER 'test\_user'@'localhost'; removes test\_user from the database entirely.

This script should be run in a MySQL command-line interface or any MySQL client tool that allows you to execute SQL commands.