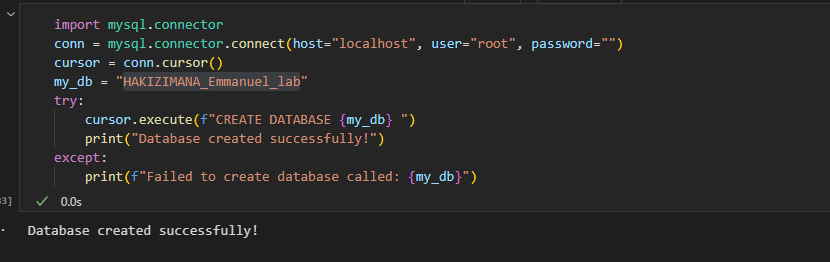
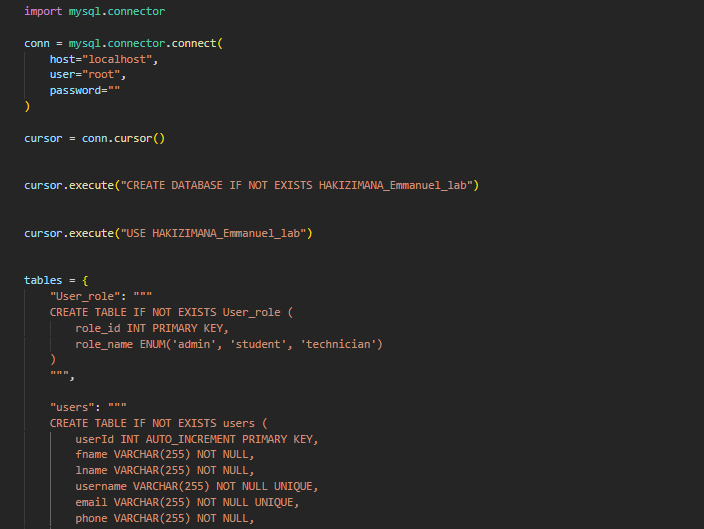
DOCUMENTATION FOR CAT:

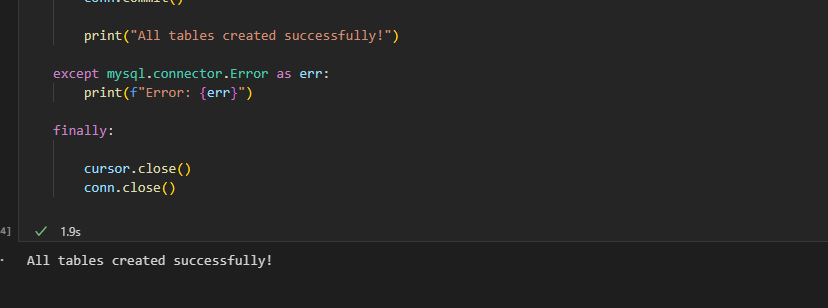
1. **Create database**



Here , this image illustrate database name by HAKIZIMANA.Emmanue\_lab is created.

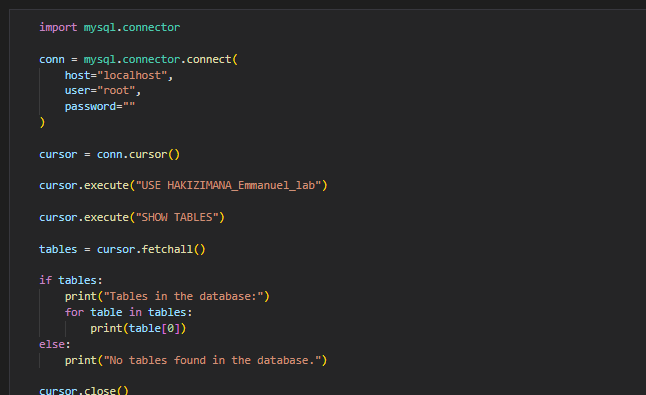
2**. create tables:**

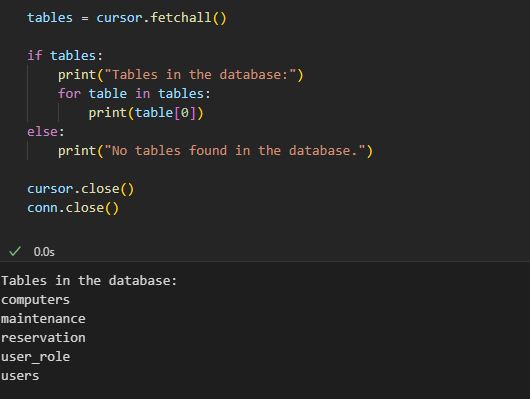




This image is illustrating all table are implemented.

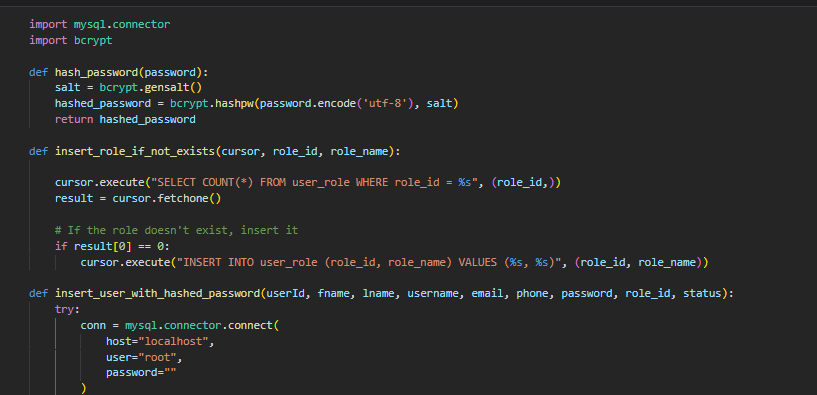
3. **Display tables:**

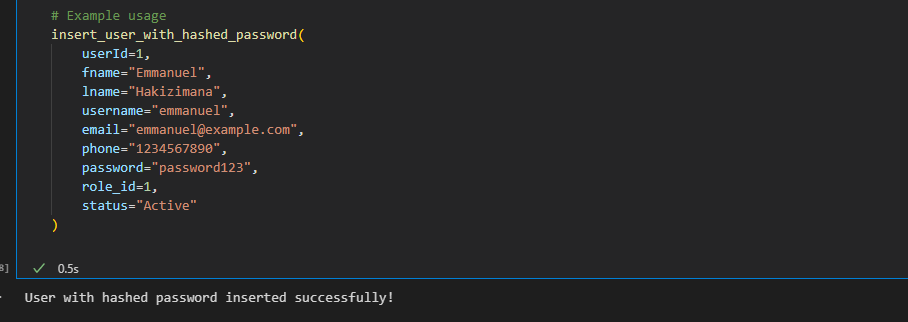




This code is display and select all tables created.

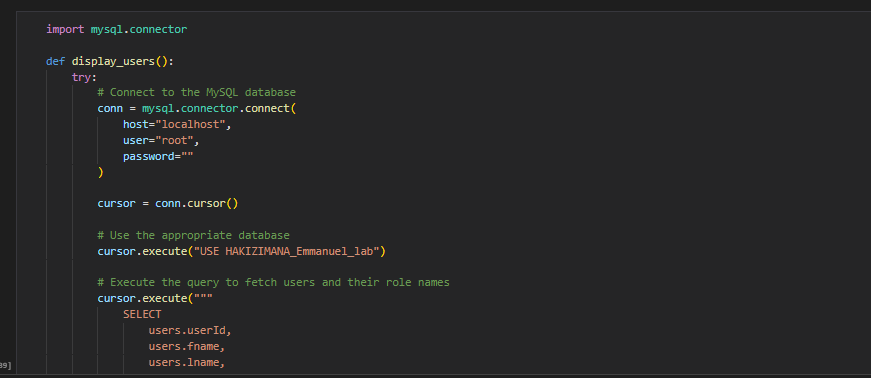
4**.hashed password:**

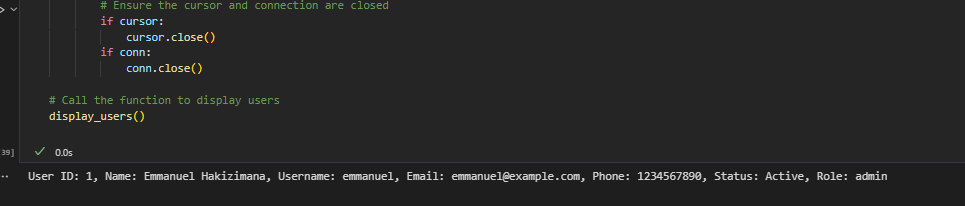




This part is necessary for secure your password as hashed method with **import bcrypt**

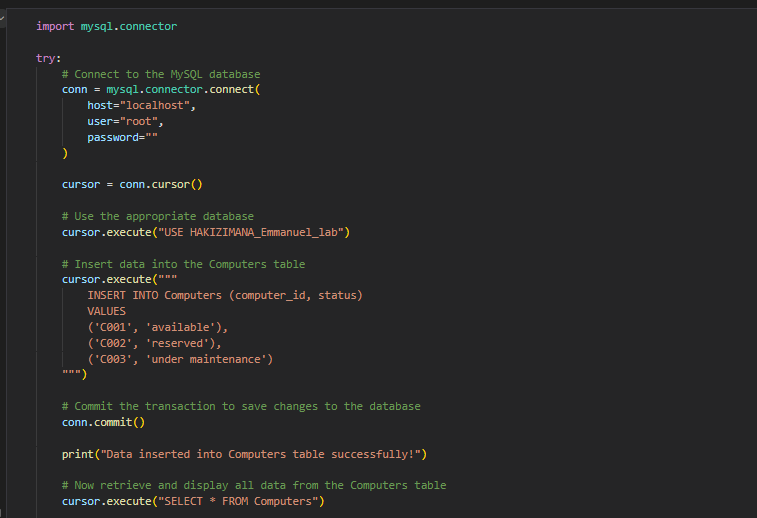
**5.Display users and constraint:**

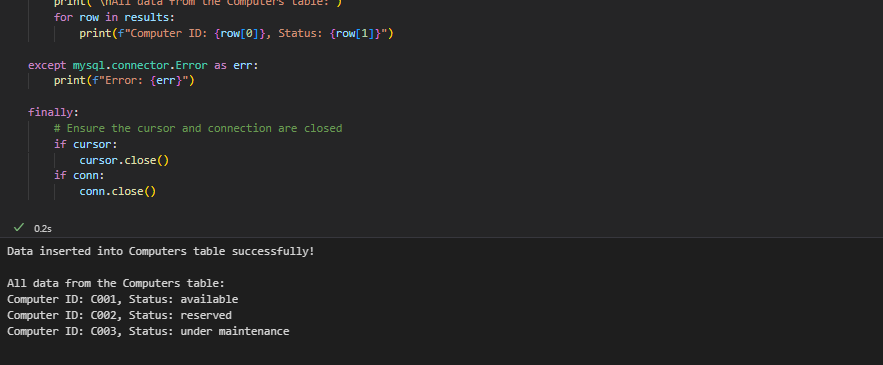




This image illustrate all users and constraint

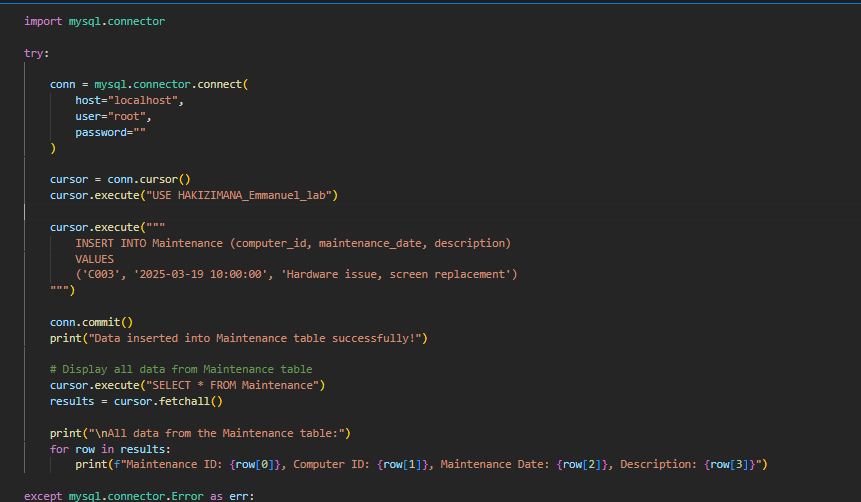
**6.inserted into computers table:**

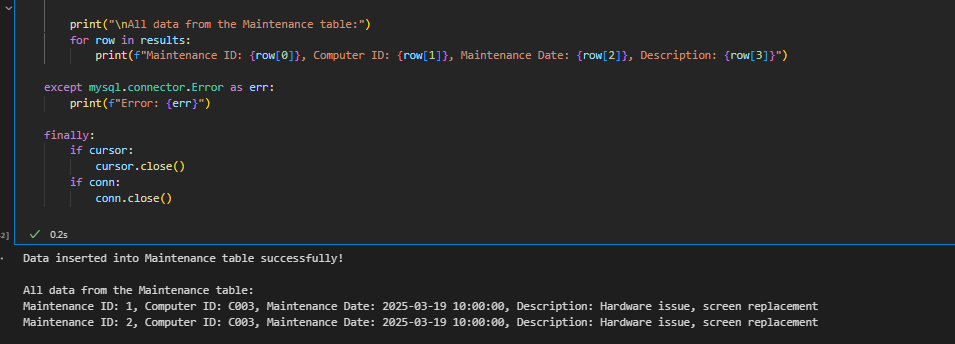




This screenshot is explained how to insert into Computer table

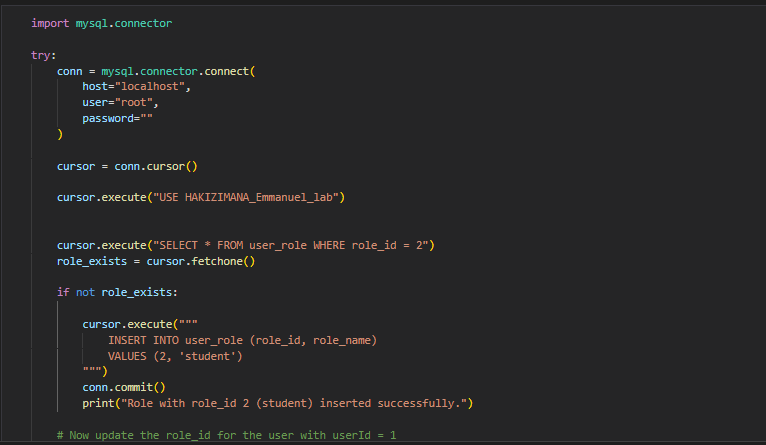
**7. inserted into Maintenance table:**

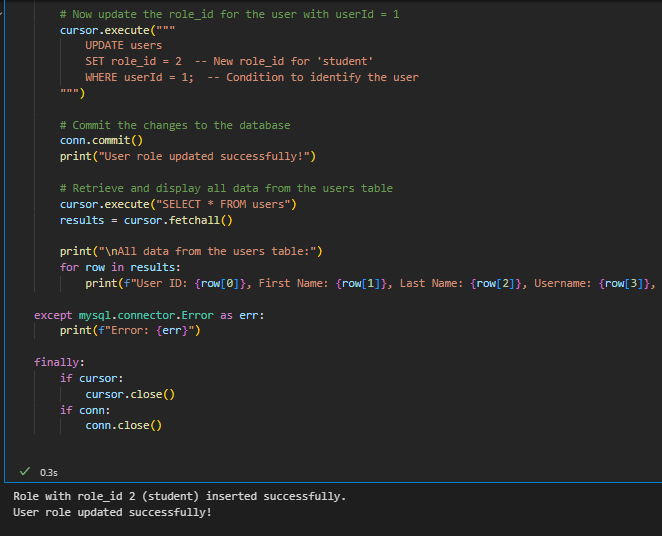




This screenshot is explained how to insert into Maintenance table

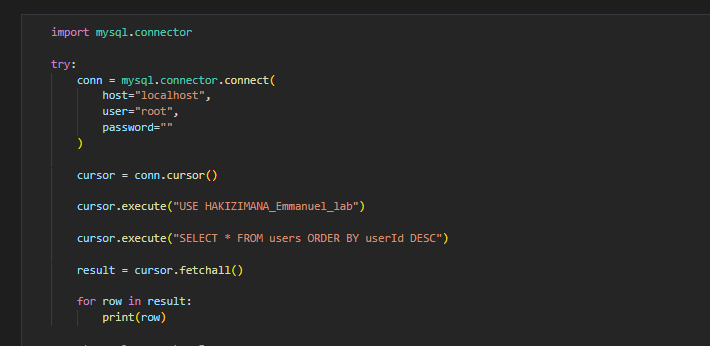
**8. update user\_role:**





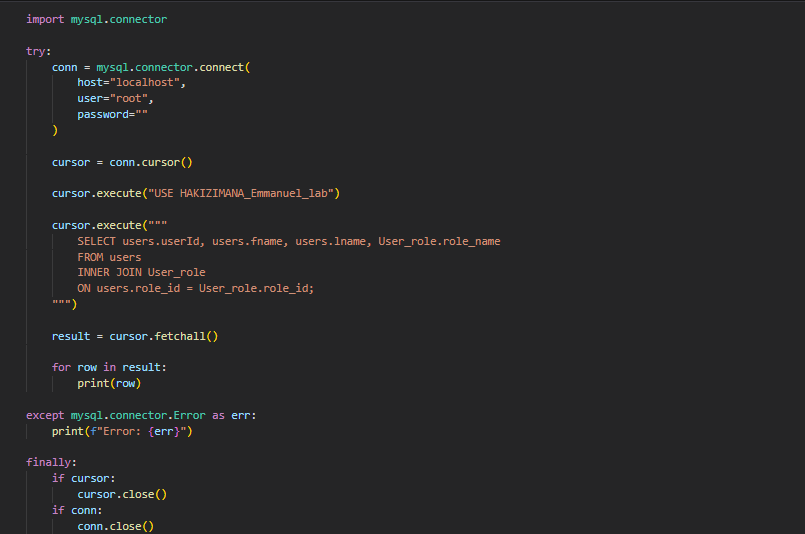
This screenshot is explained how update user\_role

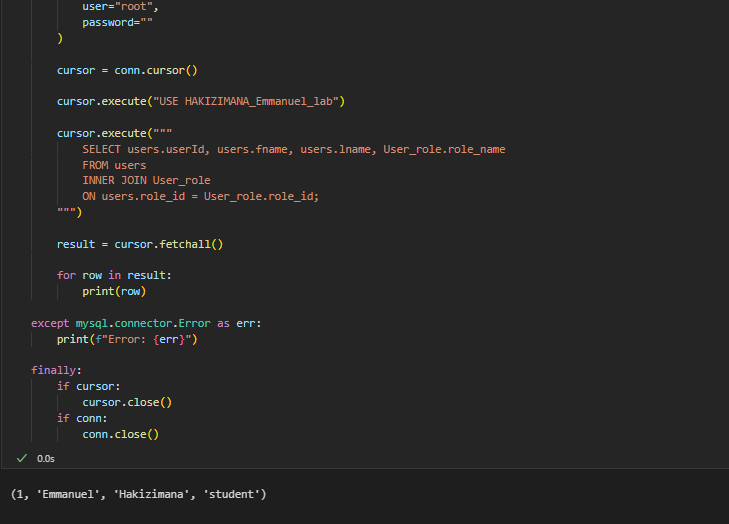
**9. select all users and password hashed:**





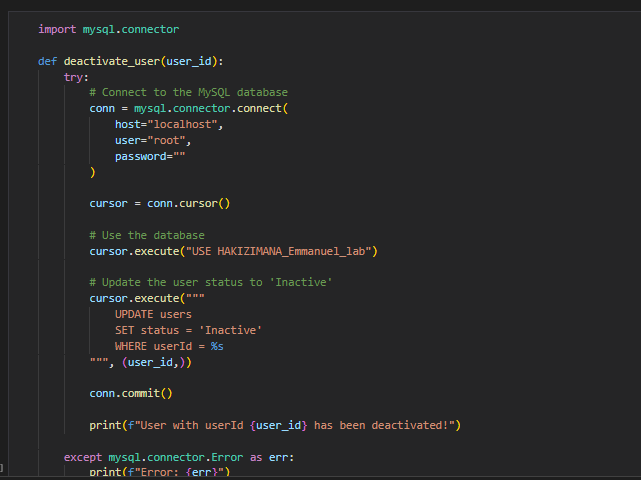
**10. join performed**

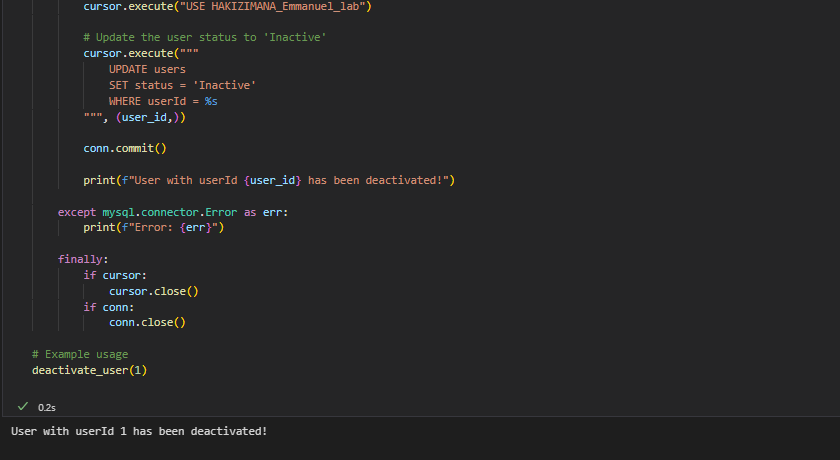




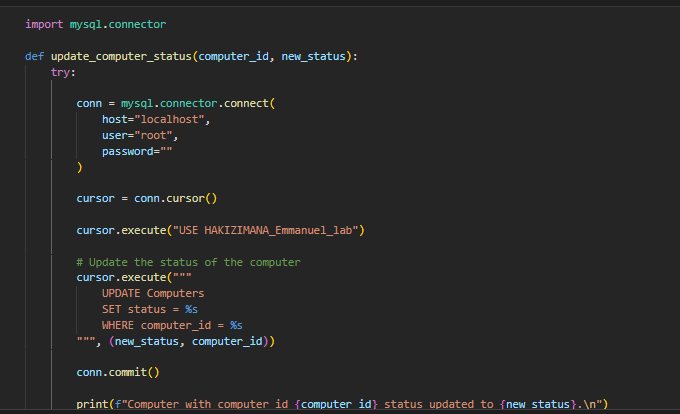
This screenshot illustrates table relationship made

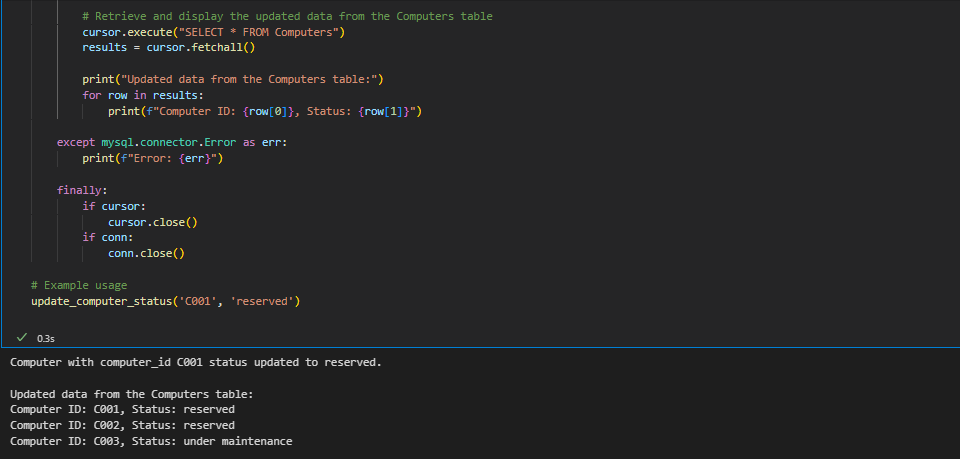
12.**DEACTIVE STATUS:**





13.Update Computer table:

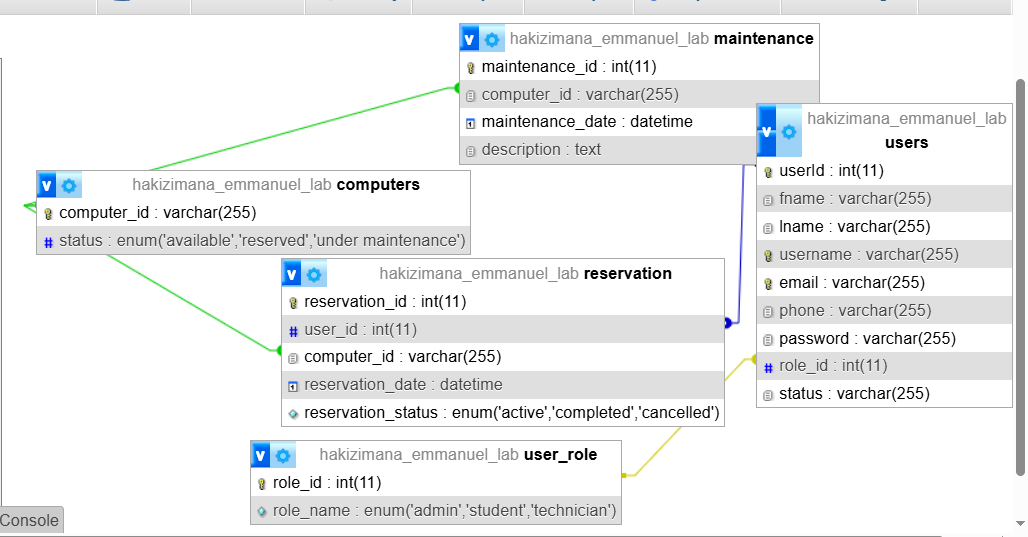




This screenshot is explain how Update Computer table and result:

**N.B: more code reference to python file save same folder**

As conclude all action is contained with ERD table:



1. **Maintenance**

Stores information about computer maintenance, including the computer ID, maintenance date, and description.

1. **Computers**

Stores information about the available computers, including the computer ID and status (available, reserved, under maintenance).

1. **Reservation**

Stores information about computer reservations, including the user ID, computer ID, reservation date, and reservation status (active, completed, cancelled).

1. **User Roles**

Defines the different user roles (admin, student, technician) in the system.

1. **Users**

Stores user information, including the user ID, first name, last name, username, email, phone, role ID, and status.

**Relationships:**

* The maintenance table is linked to the computers table through the computer field.
* The reservation table is linked to the users table through the user\_id field and the computers table through the computer field.
* The users table is linked to the user role table through the role\_id field.