#### Assignment -2

Assignment Date	27 September 2022
Student Name	C.Selva Yogiraam
Student Roll Number	9517201904060
Maximum Marks	2 Marks

#### Question-1:

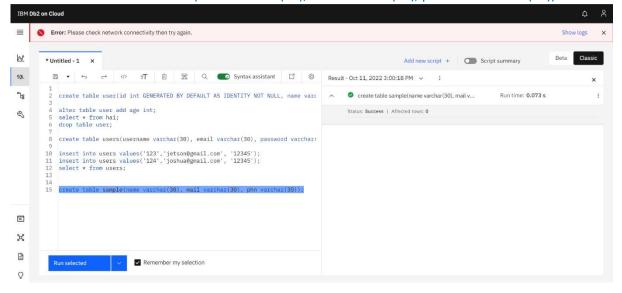
- 1.Create User table with user with email, username, roll number, password.
- 2. Perform UPDATE, DELETE Queries with user table
- 3. Connect python code to db2.
- 4. Create a flask app with registration page, login page and welcome page.

By default, load the registration page once the user enters all the fields store the data in database and navigate to login page authenticate user username and password. If the user is valid show the welcome page.

#### **Solution:**

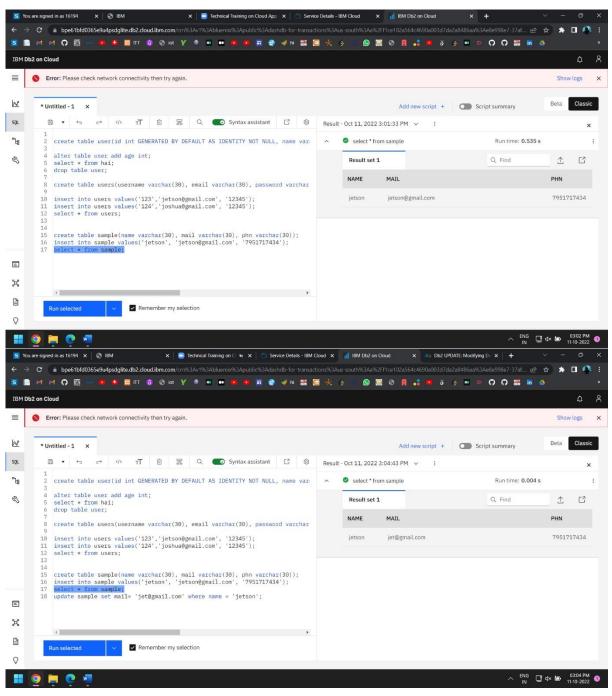
#### **Creating user table:**

CREATE TABLE SAMPLE(name varchar(30), email varchar(30), password varchar(30))

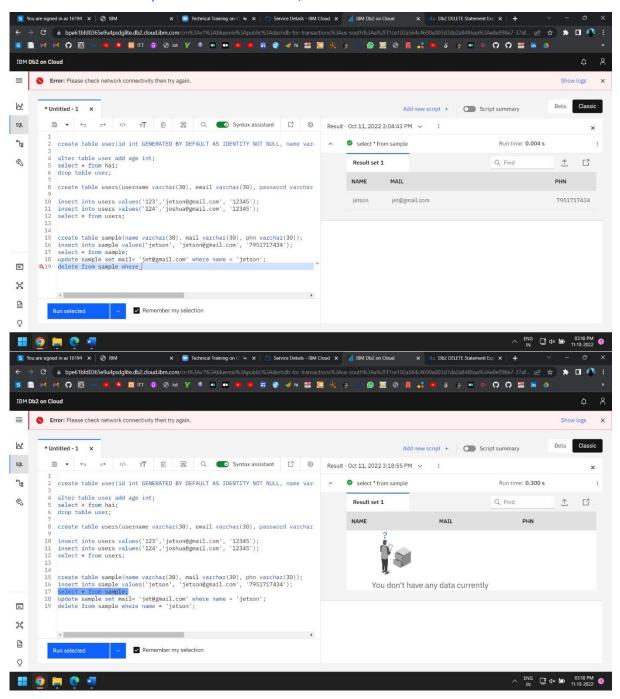


#### Performing update, delete:

update sample set mail= 'Selva@gmail.com' where name = 'Selva';



#### delete from sample where name = 'selva';



```
Base.html:
```

```
<html>
       <head>
         <link rel="stylesheet" href="static/css/main.css">
         {% block head %}
         {% endblock %}
       </head>
       <body>
         {% block body %}
         {% endblock %}
       </body>
       </html>
Main.css: .login { width: 60%; border-radius: 1rem; background: gray;
       padding: 10px; margin: auto; text-align: center; font-family: 'Gill
       Sans', 'Gill Sans MT', Calibri, 'Trebuchet MS', sans-serif;
       }
       .back{ background-color:
       black;
       .sub{ background-color:
       black; color: white;
       border-radius: 1rem;
       }
       .box{
         border-radius: 1rem;
       background-color: black; color:
       white;
Dashboard.html:
```

{% extends 'base.html' %}

```
{% block head %}
      <title>Login</title>
      {% endblock %}
      {% block body %}
      <div class="login">
        <h1>
          Welcome to dashboard.. {{ msg }}
        </h1>
        <hr>
      </div>
      {% endblock %}
Login.html:
      {% extends 'base.html' %}
      {% block head %}
      <title>Login</title>
      {% endblock %}
      {% block body %}
      <div class="login">
        <h1>
          Login
        </h1>
        <hr>
        <form action="/login" method="POST">
          <br>
          username: <input type="text" class="box" name="username" id="username"><br><br>
          Password: <input type="password" class="box" name="passwd" id="passwd"><br><br>
          <input type="submit" class="sub" value="Sign in">
        </form>
        Don't have account? <a href="/signup">Sign up</a>
```

```
</div>
       {% endblock %}
Signup.html:
       {% extends 'base.html' %}
       {% block head %}
       <title>Login</title>
       {% endblock %}
       {% block body %}
       <div class="login">
         <h1>
           Sign Up
         </h1>
         <hr>
         <form action="/signup" method="POST">
           <br>
           username: <input type="text" class="box" name="username" id="username"><br><br>
       email: <input type="text" class="box" name="email" id="eamil"><br><br>
           Password: <input type="password" class="box" name="passwd" id="passwd"><br><br>
           <input type="submit" class="sub" value="Sign up"><br>
         </form>
         Already have an account? <a href="/login">Login</a>
       </div>
       {% endblock %}
App.py:
       from flask import Flask, render_template, request, session, redirect, url_for
       import ibm_db import
       re import ibm_db_dbi
       app = Flask(__name__)
       app.secret_key = 'a'
```

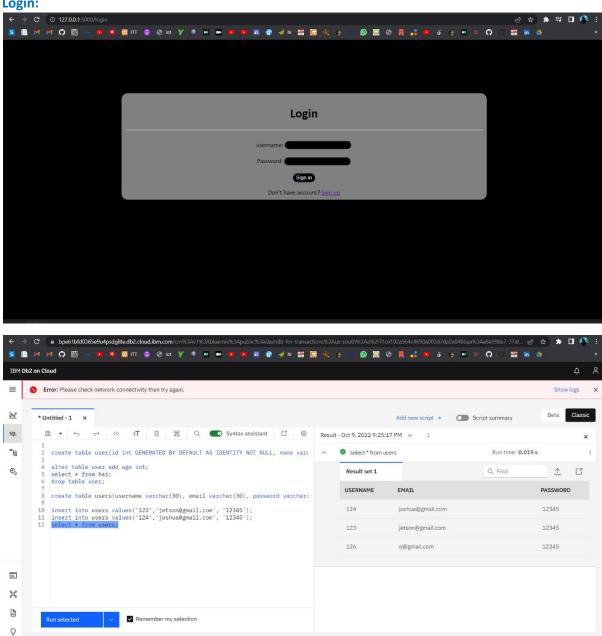
```
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=b70af05b-76e4-4bca-
a1f523dbb4c6a74e.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32716;SECURIT
SL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=xyn12614;PWD=oXjOuam0AOYeLVKq
", ", ")
@app.route('/login', methods=['POST', "GET"])
def login():
global userid
msg = "
 if request.method == 'POST':
    username = request.form['username']
                                           password =
request.form['passwd']
                        sql = "select * from users where
username = ? and password = ?"
                                  stmt = ibm db.prepare(conn,
       ibm_db.bind_param(stmt, 1, username)
sql)
ibm_db.bind_param(stmt, 2, password)
                                         ibm_db.execute(stmt)
account = ibm_db.fetch_assoc(stmt)
    print(account)
if account:
      session['Loggedin'] = True
session['id'] = account['USERNAME']
                                        userid
= account['USERNAME']
                            session['username']
= account['USERNAME']
                            msg = 'logged in
successfully'
      return render_template('dashboard.html', msg=msg)
    else:
      msg = 'Incorrect user credentials'
                                           return
render_template('dashboard.html', msg=msg)
  else:
    return render_template('login.html')
```

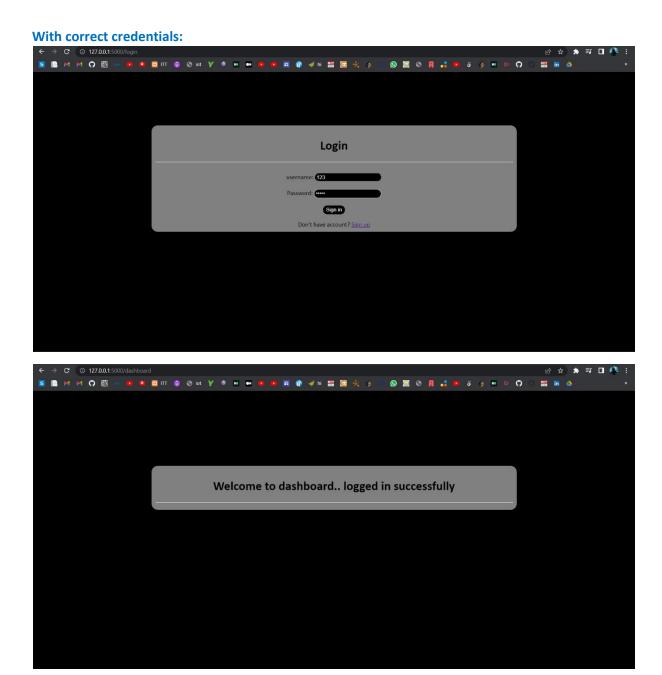
```
@app.route('/signup', methods=["POST", "GET"])
def signup(): if request.method == "POST":
username = request.form['username']
                                     email =
request.form['email']
                        password =
request.form['passwd']
                          sql = "select * from
users where username = ?"
                              stmt =
ibm_db.prepare(conn, sql)
ibm db.bind param(stmt, 1, username)
ibm db.execute(stmt)
                         account =
ibm_db.fetch_assoc(stmt)
    print(account)
if account:
      msg = 'Acccount already exists'
                                       elif not
re.match(r'[^@]+@[^@]+\.[^@]+', email):
      msg = 'invalid email'
                             elif not
re.match(r'[A-Za-z0-9]+', username):
      msg = 'name must contain charectors and numbers'
    else:
      insert_sql = "insert into users values(?,?,?)"
prep_stmt = ibm_db.prepare(conn, insert_sql)
ibm_db.bind_param(prep_stmt, 1, username)
ibm_db.bind_param(prep_stmt, 2, email)
ibm_db.bind_param(prep_stmt, 3, password)
ibm_db.execute(prep_stmt)
      print("successs")
                            msg
= "succesfully signed up"
    return render_template('dashboard.html', msg=msg)
  else:
    return render_template('signup.html')
```

```
if __name__ == '__main__':
```

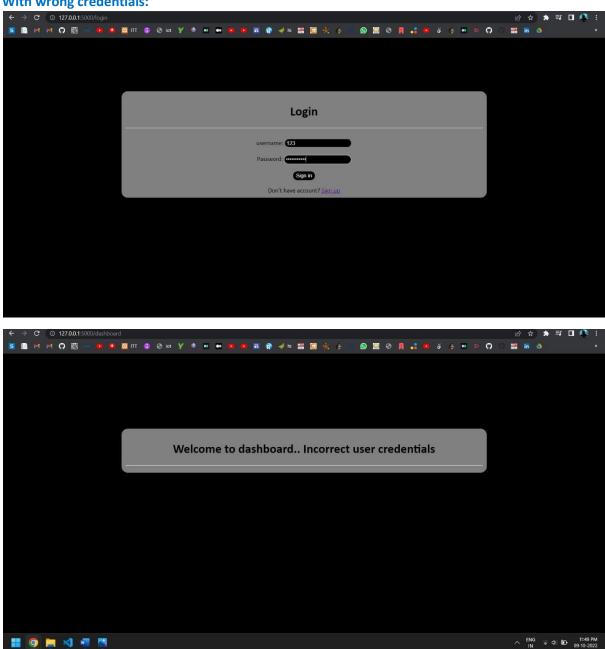
## app.run(debug=False) Output:

#### Login:





# With wrong credentials:



### Sign up:

