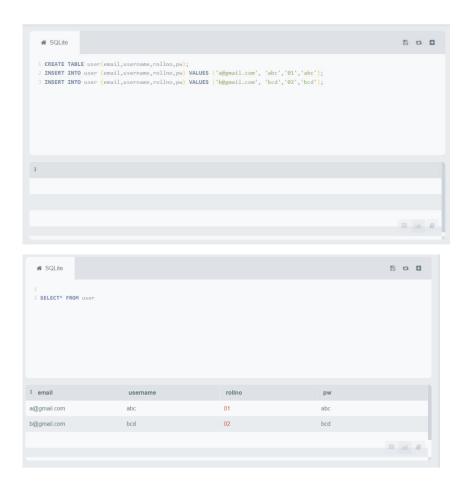
Create Flask project

Create User table with user with email, username, roll number, password.

Solution:

CREATE TABLE user(email,username,rollno,pw); INSERT INTO user (email,username,rollno,pw) VALUES ('a@gmail.com', 'abc','01','abc'); INSERT INTO user (email,username,rollno,pw) VALUES ('b@gmail.com', 'bcd','02','bcd'); INSERT INTO user (email,username,rollno,pw) VALUES ('c@gmail.com', 'cde','03','cde'); INSERT INTO user (email,username,rollno,pw) VALUES ('d@gmail.com', 'def','04','def');

Output:



Perform UPDATE, DELETE Queries with user table

Solution:

```
UPDATE user SET username = 'alpha' WHERE rollno = '01';
SELECT* FROM user

DELETE FROM user WHERE username = 'bcd';
SELECT* FROM user
```

Output:





Connect python code to db2.

Solution:

```
pip install ibm_db
from ibm_db import connect
connection = connect('DATABASE=<database name>;'
            'HOSTNAME=<database ip>;' # 127.0.0.1 or localhost works if it's local
            'PORT=<database port>;'
            'PROTOCOL=TCPIP;'
            'UID=<database username>;'
            'PWD=<username password>;', ", ")
def results(command):
  from ibm_db import fetch_assoc
  ret = []
  result = fetch_assoc(command)
  while result:
    ret.append(result)
    result = fetch_assoc(command)
  return ret # Ditch this line if you choose to use a generator.
from ibm_db import tables
t = results(tables(connection))
```

```
sql = 'LIST * FROM ' + t[170]['TABLE_NAME']
rows = results(exec_immediate(connection, sql))
```

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:

```
@app.route('/login', methods=['GET', 'POST'])
def login():
  error = None
  if request.method == 'POST':
    if request.form['username'] != 'admin' or request.form['password'] != 'admin':
       error = 'Invalid Credentials. Please try again.'
    else:
       return redirect(url for('home'))
  return render_template('login.html', error=error)
html code:
<html>
 <head>
  <title>Flask Intro - login page</title>
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  k href="static/bootstrap.min.css" rel="stylesheet" media="screen">
 </head>
 <body>
  <div class="container">
   <h1>Please login</h1>
   <hr>
   <form action="" method="post">
    <input type="text" placeholder="Username" name="username" value="{{</pre>
     request.form.username \}">
     <input type="password" placeholder="Password" name="password" value="{{</pre>
     request.form.password }}">
    <input class="btn btn-default" type="submit" value="Login">
   </form>
   {% if error %}
    <strong>Error:</strong> {{ error }}
   { % end if % }
  </div>
 </body>
</html>
```

Output:			

Please login					
admin		Login			
Error: Invalid credent	als. Please try again.				

Hello, World!			