DHANALAKSHMI. S

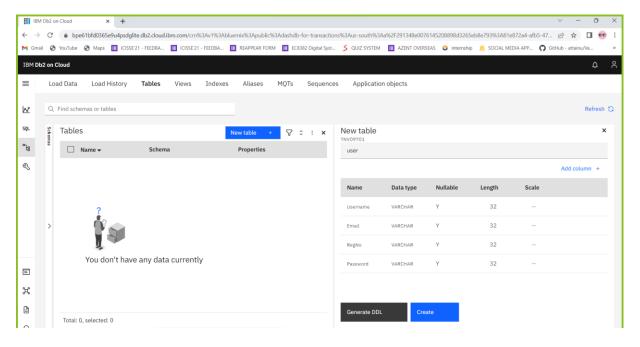
311519104012

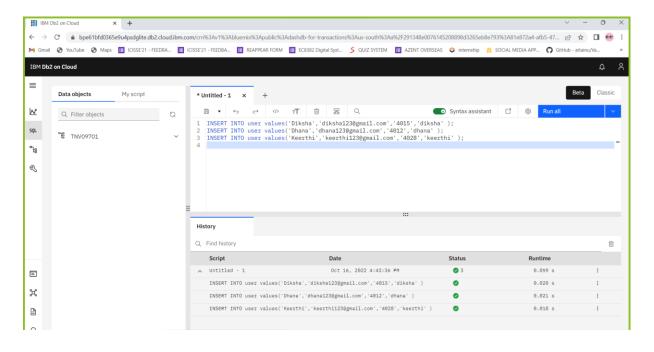
dhanalakshmi.sat@gmail.com

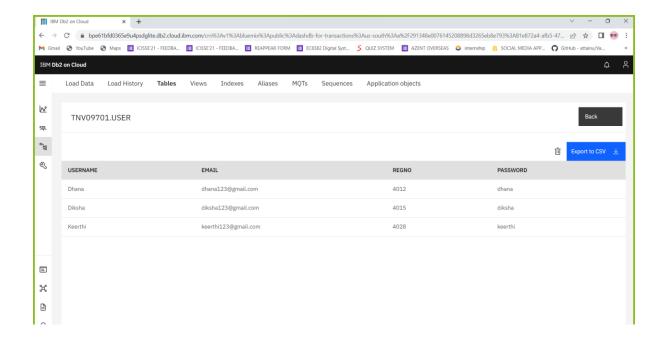
PNT2022TMID27807

ASSIGNMENT – II

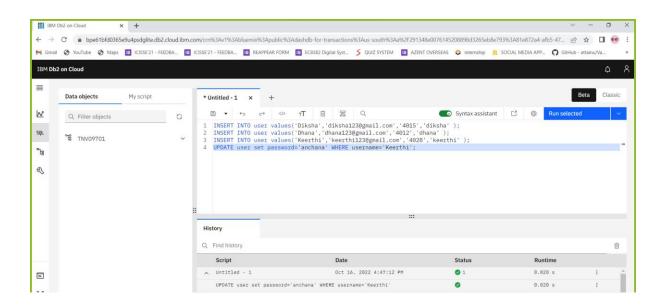
1. CREATE USER TABLE WITH USER WITH EMAIL , USERNAME , ROLL NUMBER , PASSWORD

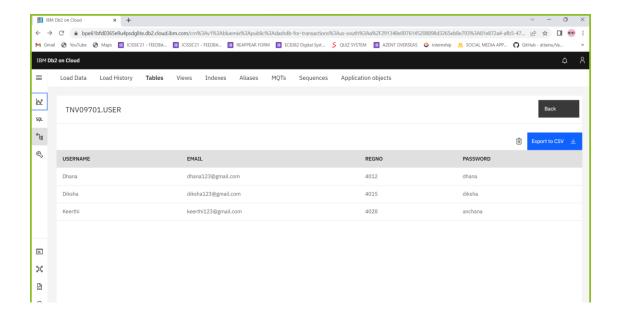


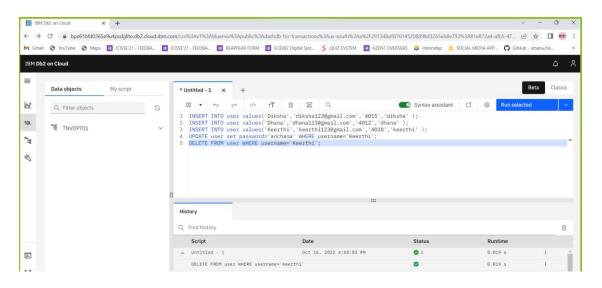


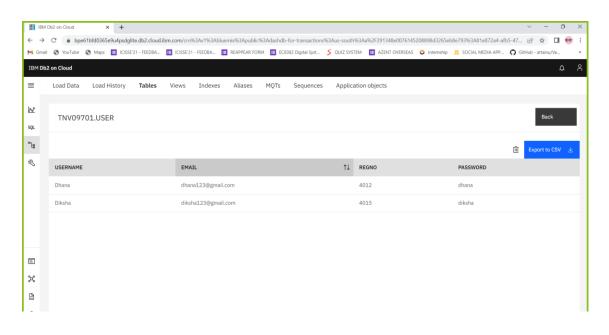


2. PERFORM UPDATE, DELETE QUERIES WITH USER TABLE









3. CONNECT PYTHON TO DB2

Register.html

```
<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width, initialscale=1">
<style>
html {
  height: 100%;
  width: 100%;
body {
  background: url("https://images.unsplash.com/photo-1485802007047-
7774de7208e5?dpr=1&auto=compress,format&fit=crop&w=1800&h") no-repeat
center center fixed;
  background-size: cover;
  font-family: 'Droid Serif', serif;
}
#container {
  background: rgba(3, 3, 55, 0.5);
  width: 18.75rem;
  height: 25rem;
  margin: auto;
  position: absolute;
  top: 0;
  left: 0;
  right: 0;
  bottom: 0;
header {
  text-align: center;
  vertical-align: middle;
  line-height: 3rem;
  height: 3rem;
  background: rgba(3, 3, 55, 0.7);
  font-size: 1.4rem;
  color: #d3d3d3;
fieldset {
  border: 0;
  text-align: center;
input[type="submit"] {
```

```
background: #ff6600;
  border: 0;
  display: block;
  width: 70%;
  margin: 0 auto;
  color: white;
  padding: 0.7rem;
  cursor: pointer;
input {
  background: transparent;
  border: 0;
  border-left: 4px solid;
  border-color: #ff6600;
  padding: 10px;
  color: white;
}
input[type="text"]:focus,
input[type="email"]:focus,
input[type="password"]:focus {
  outline: 0;
  background:#ff6600;
  border-radius: 1.2rem;
  border-color: transparent;
}
::placeholder {
  color: #d3d3d3;
/*Media queries */
@media all and (min-width: 481px) and (max-width: 568px) {
  #container {
     margin-top: 10%;
     margin-bottom: 10%;
  }
  @media all and (min-width: 569px) and (max-width: 768px) {
     #container {
       margin-top: 5%;
       margin-bottom: 5%;
     }
</style>
```

```
</head>
      <body>
          <div id="container">
            <header>Registration Form</header>
            <form action="http://localhost:5000/register" method="POST">
            <fieldset>
               <br/>>
               <input type="text" name="uname" id="uname" placeholder="name"
      required autofocus>
               <br/><br/>
               <input type="email" name="email" id="email" placeholder="E-mail"</pre>
      required>
               <br/><br/>
               <input type="text" name="regno" id="regno" placeholder="regno"
      required>
               <br/><br/>
               <input type="password" name="pwd" id="pwd" placeholder="password"
      required>
               <br/><br/><br/>
               <label for="submit"></label>
               <input type="submit" name="submit" id="submit" value="REGISTER">
             </fieldset>
            </form>
          </div>
        </body>
      </html>
login.html
<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width, initialscale=1">
<style>
html {
  height: 100%;
  width: 100%;
body {
```

}

```
background: url("https://images.unsplash.com/photo-1485802007047-
7774de7208e5?dpr=1&auto=compress,format&fit=crop&w=1800&h") no-repeat center
center fixed;
  background-size: cover;
  font-family: 'Droid Serif', serif;
}
#container {
  background: rgba(3, 3, 55, 0.5);
  width: 18.75rem;
  height: 18rem;
  margin: auto;
  position: absolute;
  top: 0;
  left: 0;
  right: 0;
  bottom: 0;
}
header {
  text-align: center;
  vertical-align: middle;
  line-height: 3rem;
  height: 3rem;
  background: rgba(3, 3, 55, 0.7);
  font-size: 1.4rem;
  color: #d3d3d3;
}
fieldset {
  border: 0;
  text-align: center;
}
input[type="submit"] {
```

```
background: #ff6600;
  border: 0;
  display: block;
  width: 70%;
  margin: 0 auto;
  color: white;
  padding: 0.7rem;
  cursor: pointer;
}
input {
  background: transparent;
  border: 0;
  border-left: 4px solid;
  border-color: #ff6600;
  padding: 10px;
  color: white;
}
input[type="text"]:focus,
input[type="email"]:focus,
input[type="password"]:focus {
  outline: 0;
  background:#ff6600;
  border-radius: 1.2rem;
  border-color: transparent;
}
::placeholder {
  color: #d3d3d3;
}
/*Media queries */
@media all and (min-width: 481px) and (max-width: 568px) {
```

```
#container {
    margin-top: 10%;
    margin-bottom: 10%;
  }
}
  @media all and (min-width: 569px) and (max-width: 768px) {
    #container {
      margin-top: 5%;
      margin-bottom: 5%;
    }
  }
</style>
</head>
<body>
   <div id="container">
     <header>Login Form</header>
     <form action="http://localhost:5000/login" method="POST">
     <fieldset>
        <br/>br/>
        <input type="text" name="uname" id="uname" placeholder="name" required
autofocus>
        <br/><br/>
        <input type="password" name="pwd" id="pwd" placeholder="password" required>
        <br/><br/><br/>
        <label for="submit"></label>
        <input type="submit" name="submit" id="submit" value="REGISTER">
      </fieldset>
     </form>
   </div>
 </body>
</html>
```

```
app.py
from flask import Flask,render_template, redirect, url_for, request, session
import ibm_db
```

```
import re
app=Flask(__name__)
app.secret_key='a'
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=98538591-7217-4024-b027-
8baa776ffad1.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=30875;SECURIT
Y=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=tnv09701;PWD=PYHoZDtrj
0Z92eb7;",",")
@app.route('/')
def home():
  return render_template('register.html')
@app.route('/login',methods=["GET","POST"])
def login():
  global userid
  msg=" "
  if request.method=="POST":
    username = request.form['uname']
    password = request.form['pwd']
    sql = "SELECT * FROM User WHERE USERNAME=? AND PASSWORD=?"
    stmt = ibm_db.prepare(conn,sql)
    ibm_db.bind_param(stmt,1,username)
    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 redirect(url_for('welcome', username=username))
    else: msg = "Incorrect Username/Password"
  return render_template('login.html', msg = msg)
@app.route('/register',methods=["GET","POST"])
def registration():
  msg = " "
  if request.method=="POST":
    username = request.form['uname']
    email = request.form['email']
    password = request.form['pwd']
    regno = request.form['regno']
    sql="SELECT * FROM user 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 = "Account already exists!"
    elif not re.match(r'[^@]+@[^@]+\.[^@]+', email):
       msg = "Invalid Email Address."
    elif not re.match(r'[A-Za-z0-9]+', username):
       msg = "Username must contain only alphabets and numbers."
    else:
```

```
insert_sql = "INSERT INTO user 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,regno)
      ibm_db.bind_param(prep_stmt,4,password)
      ibm_db.execute(prep_stmt)
      msg = "You have successfully registered."
      return render_template('login.html', msg=msg)
  elif request.method == 'POST': msg="Please fill out the form."
  return render_template('register.html',msg=msg)
@app.route('/welcome/<username>')
def welcome(username):
  return "Welcome %s!" %username
if name ==" main ":
  app.run(host='0.0.0.0')
```

```
C:\Users\DHANALAKSHMI\OneDrive\Documents\FLASK>app.py

* Serving Flask app 'app'

* Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.

* Running on all addresses (0.0.0.0)

* Running on http://127.0.0.1:5000

* Running on http://192.168.0.152:5000

Press CTRL+C to quit

127.0.0.1 - - [16/Oct/2022 17:58:09] "GET / HTTP/1.1" 200 -
False

127.0.0.1 - - [16/Oct/2022 17:58:28] "POST /register HTTP/1.1" 200 -
{'USERNAME': 'abc123', 'EMAIL': 'abc123@gmail.com', 'REGNO': '1234', 'PASSWORD': '12345'}

127.0.0.1 - - [16/Oct/2022 17:58:40] "POST /login HTTP/1.1" 302 -
127.0.0.1 - - [16/Oct/2022 18:01:24] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [16/Oct/2022 18:03:25] "POST /register HTTP/1.1" 200 -
{'USERNAME': 'anchana', 'EMAIL': 'anchu123@gmail.com', 'REGNO': '1456', 'PASSWORD': '12345'}

127.0.0.1 - - [16/Oct/2022 18:04:04] "POST /login HTTP/1.1" 302 -
['USERNAME': 'anchana', 'EMAIL': 'anchu123@gmail.com', 'REGNO': '1456', 'PASSWORD': '12345'}

127.0.0.1 - - [16/Oct/2022 18:04:04] "POST /login HTTP/1.1" 302 -
127.0.0.1 - - [16/Oct/2022 18:04:04] "GET /welcome/anchana HTTP/1.1" 200 -
```

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

