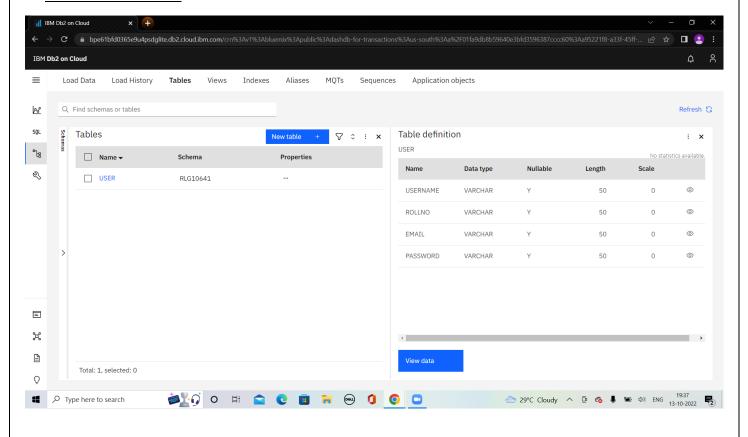
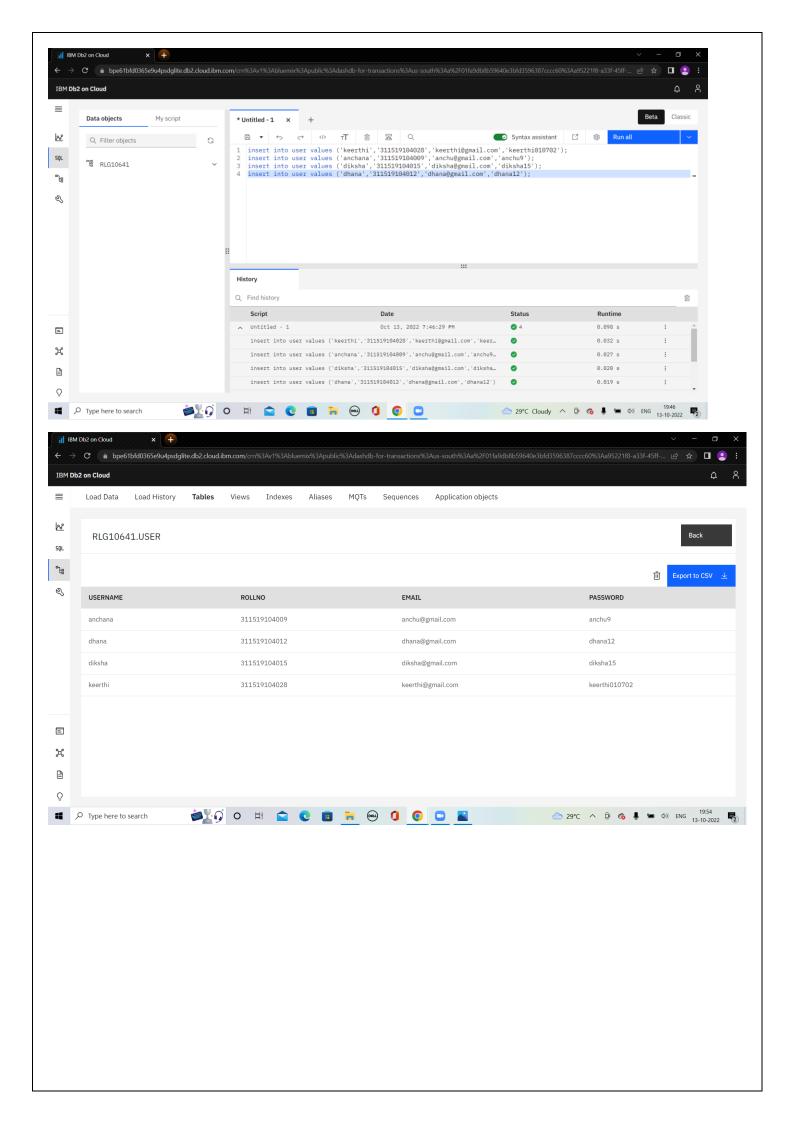
ASSIGNMENT – 2

	KEERTHI SELVAKUMAR
Name	
Register Number	311519104028
Email ID	keerthiselvakumar123@gmail.com
Team Number	PNT2022TMID27807

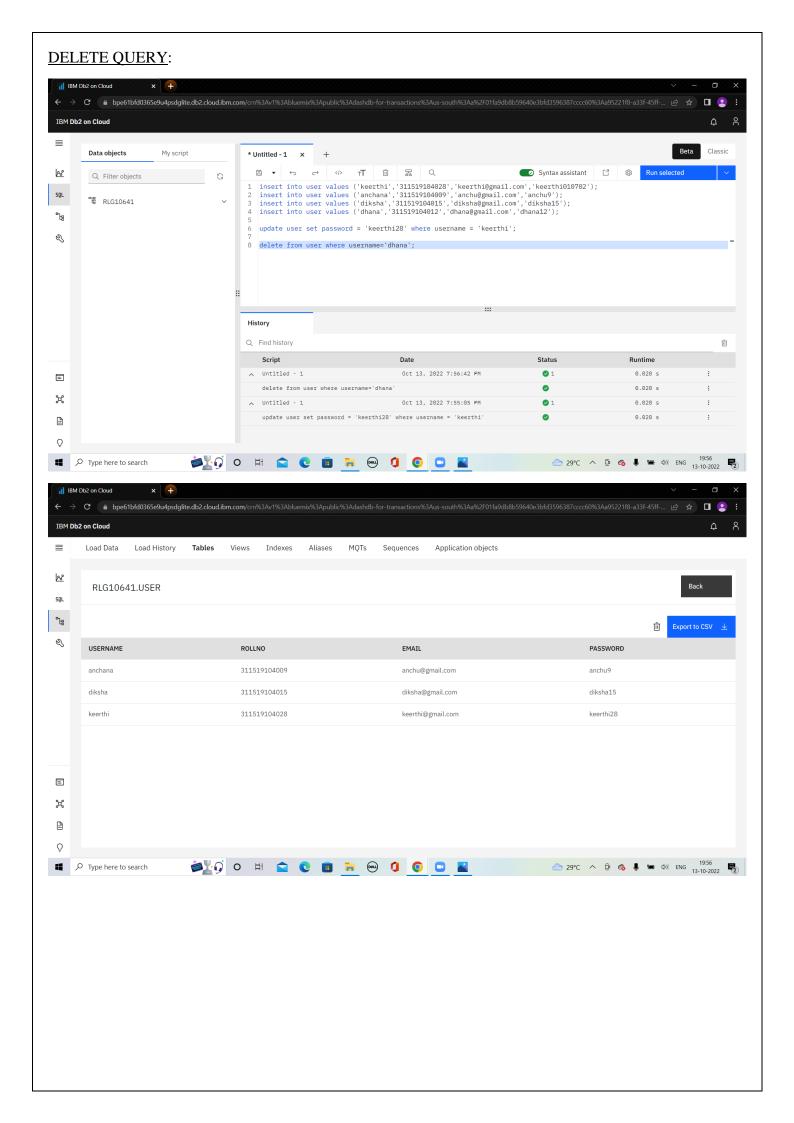
- 1. Create a user table with user email, username, roll number, password.
- 2. Perform UPDATE, DELETE queries with user table
- 3. Connect python to db2
- 4. Create a flask app with registration page, login page and welcome page. By default load the registration page one the user enters all the fields store the data in the database and navigate to login page authenticate user username and password. If the user is valid show the welcome page.

1. TABLE CREATION:





2. <u>UPDATE QUERY</u>: C 🀞 bpe6fbfd0365e9u4psdglite.db2.cloud.ibm.com/crr%3Av1%3Abluenix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa/s2F01fa9db8559640e3bfd3596387cccc60%3Aa95221f8-a33f-45ff... 🗠 🌣 ጵ IBM Db2 on Cloud Data objects My script * Untitled - 1 x 100 D + 0 1/> тТ n 8 Q C 8 Syntax assistant Q Filter objects insert into user values ('keerthi','311519104028','keerthi@gmail.com','keerthi010702'); insert into user values ('anchana','311519104009','anchu@gmail.com','anchu"); insert into user values ('diskan','311519104015','disknaf@gmail.com','disknaf5'); insert into user values ('dhana','311519104012','dhana@gmail.com','dhana12'); SQL °€ RLG10641 96 update user set password = 'keerthi28' where username = 'keerthi'; 3 History Q Find history Ė Script △ Untitled - 1 01 Oct 13, 2022 7:50:03 PM 0.020 s × Untitled - 1 Oct 13, 2022 7:49:55 PM 01 0.019 6 update user set password = 'keerthi28' where username = 'keerthi 0.019 s Oct 13, 2022 7:46:29 PM 0 ঙ 🖟 🗘 o 🖽 🏫 🥷 📵 🐧 🌀 🗅 29°C Cloudy ^ 🖟 😘 💄 🛥 🕬 ENG 1950 = Type here to search IBM Db2 on Cloud □ 😩 IBM Db2 on Cloud ≡ Load Data Load History Tables Views Indexes Aliases MOTs Sequences Application objects ₽\$° RLG10641.USER SOL ъ Ū B USERNAME ROLLNO PASSWORD EMAIL 311519104009 anchana anchu@gmail.com anchu9 311519104012 dhana12 dhana dhana@gmail.com 311519104015 diksha diksha@gmail.com diksha15 311519104028 keerthi@gmail.com keerthi28 × Ω 🎉 🖟 o 🖽 宜 🥲 📵 📮 😡 🐧 🔘 🖸 4 ∠ Type here to search



3. CONNECTING TO DB:

register.html (Registration Page):-

```
<!DOCTYPE html>
<html lang="en" >
<head>
 <meta charset="UTF-8">
k rel="apple-touch-icon" type="image/png" href="https://cpwebassets.codepen.io/assets/favicon/apple-
touch-icon-5ae1a0698dcc2402e9712f7d01ed509a57814f994c660df9f7a952f3060705ee.png" />
<meta name="apple-mobile-web-app-title" content="CodePen">
 <title>Register Page</title>
<style>
body{
  margin: 0;
  padding: 0;
  font-family: 'Roboto', sans-serif;
  background: #ffccff;
}
.box{
  width: 300px;
  padding: 40px;
  position: absolute;
  top: 50%;
  left: 50%;
  transform: translate(-50%, -50%);
  background: #191919;
  text-align: center;
  border-radius: 50px;
  box-shadow: 10px 10px 20px #000000;
}
.box h1{}
  color: white;
  text-transform: uppercase;
  font-weight: 300px;
}
.box input[type="text"]{
  border: 0;
  background: none;
  display: block;
  margin: 20px auto;
  text-align: center;
  border: 2px solid #800080;
  padding: 14px 10px;
  width: 200px;
  outline: none;
  color: white:
  border-radius: 24px;
  transition: 0.25s;
.box input[type="password"]{
```

```
border: 0;
  background: none;
  display: block;
  margin: 20px auto;
  text-align: center;
  border: 2px solid #990099;
  padding: 14px 10px;
  width: 200px;
  outline: none;
  color: white;
  border-radius: 24px;
  transition: 0.25s;
.box input[type="text"]:focus{
  width: 280px;
  border-color: #ff99ff;
}
.box input[type="password"]:focus{
  width: 280px;
  border-color: #ff99ff;
}
.box input[type="submit"]{
  border: 0;
  background: none;
  display: block;
  margin: 20px auto;
  text-align: center;
  border: 2px solid #990099;
  padding: 14px 40px;
  outline: none;
  color: white;
  border-radius: 24px;
  transition: 0.25s;
  cursor: pointer;
.box input[type="submit"]:hover{
  background: #ff99ff;
</style>
 <script>
 window.console = window.console || function(t) { };
</script>
 <script>
 if (document.location.search.match(/type=embed/gi)) {
  window.parent.postMessage("resize", "*");
</script>
```

```
</head>
<body translate="no" >
 <!--Fonts Google-->
  k rel="preconnect" href="https://fonts.googleapis.com">
  link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
  k href="https://fonts.googleapis.com/css2?family=Open+Sans:wght@400;700&display=swap"
rel="stylesheet">
  <title>RegisterForm</title>
</head>
<body>
  <form class="box" action="http://localhost:5000/register" method="POST">
    <h1>Register</h1>
    <input type="text" placeholder="Register Number" name="rollno">
    <input type="text" placeholder="Email ID" name="email">
    <input type="text" placeholder="Username" name="uname">
    <input type="password" placeholder="Password" name="pwd">
    <input type="submit" class="submit" value="Register">
  </form>
</body>
</html>
</body>
</html>
  login.html (Login Page):-
<!DOCTYPE html>
<html lang="en" >
<head>
 <meta charset="UTF-8">
k rel="apple-touch-icon" type="image/png" href="https://cpwebassets.codepen.io/assets/favicon/apple-
touch-icon-5ae1a0698dcc2402e9712f7d01ed509a57814f994c660df9f7a952f3060705ee.png" />
<meta name="apple-mobile-web-app-title" content="CodePen">
 <title>Login Page</title>
<style>
body{
  margin: 0;
  padding: 0;
  font-family: 'Roboto', sans-serif;
  background: #ffccff;
}
.box{
  width: 300px;
  padding: 40px;
  position: absolute;
  top: 50%;
  left: 50%;
```

```
transform: translate(-50%, -50%);
  background: #191919;
  text-align: center;
  border-radius: 50px;
  box-shadow: 10px 10px 20px #000000;
}
.box h1{
  color: white;
  text-transform: uppercase;
  font-weight: 300px;
.box input[type="text"]{
  border: 0;
  background: none;
  display: block;
  margin: 20px auto;
  text-align: center;
  border: 2px solid #800080;
  padding: 14px 10px;
  width: 200px;
  outline: none;
  color: white;
  border-radius: 24px;
  transition: 0.25s;
.box input[type="password"]{
  border: 0;
  background: none;
  display: block;
  margin: 20px auto;
  text-align: center;
  border: 2px solid #990099;
  padding: 14px 10px;
  width: 200px;
  outline: none;
  color: white:
  border-radius: 24px;
  transition: 0.25s;
.box input[type="text"]:focus{
  width: 280px;
  border-color: #ff99ff;
.box input[type="password"]:focus{
  width: 280px;
  border-color: #ff99ff;
.box input[type="submit"]{
  border: 0;
  background: none;
  display: block;
```

```
margin: 20px auto;
  text-align: center;
  border: 2px solid #990099;
  padding: 14px 40px;
  outline: none;
  color: white;
  border-radius: 24px;
  transition: 0.25s;
  cursor: pointer;
.box input[type="submit"]:hover{
  background: #ff99ff;
</style>
 <script>
 window.console = window.console || function(t) { };
</script>
 <script>
 if (document.location.search.match(/type=embed/gi)) {
  window.parent.postMessage("resize", "*");
</script>
</head>
<body translate="no" >
 <!--Fonts Google-->
  k rel="preconnect" href="https://fonts.googleapis.com">
  link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
  k href="https://fonts.googleapis.com/css2?family=Open+Sans:wght@400;700&display=swap"
rel="stylesheet">
  <title>LoginForm</title>
</head>
<body>
  <form class="box" action="http://localhost:5000/login" method="POST">
    <h1>Login</h1>
    <input type="text" placeholder="Username" name="uname">
    <input type="password" placeholder="Password" name="pwd">
    <input type="submit" class="submit" value="Login">
  </form>
</body>
</html>
</body>
</html>
 assignment2.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=54a2f15b-5c0f-46df-8954-
7e38e612c2bd.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32733;SECURITY=SSL;SSLServ
erCertificate=DigiCertGlobalRootCA.crt;UID=rlg10641;PWD=RXmkpVJvDEfgRorF;",",")
@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']
    rollno = request.form['rollno']
    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'[^{\alpha}@]+@[^{\alpha}@]+\.[^{\alpha}@]+', 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,rollno)
       ibm_db.bind_param(prep_stmt,3,email)
       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')
   5. <u>REGISTRATION PAGE</u>:
```

