Assignment-2

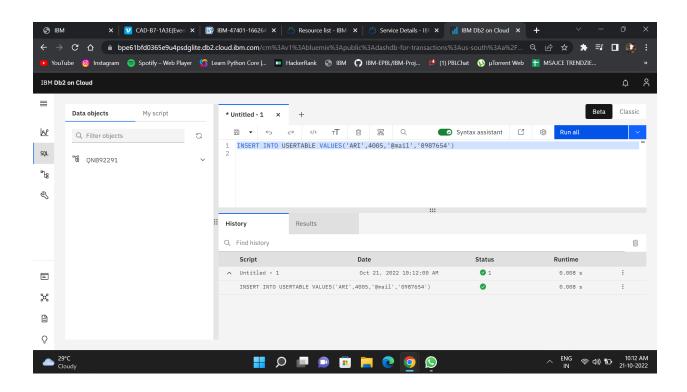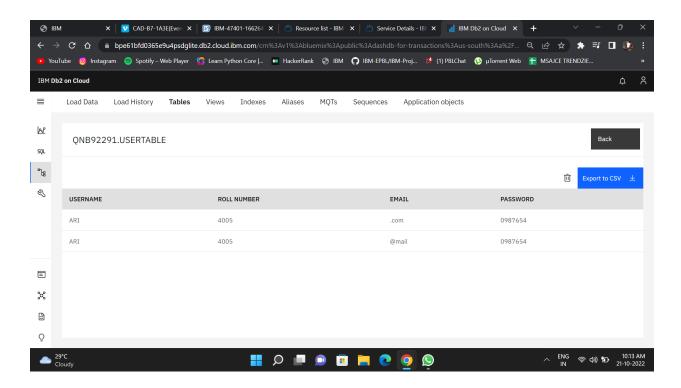| Assignment Date	29 September 2022
Name	T.prakash
Project Name	CUSTOMER CARE REGISTRY
Maximum mark	2 Mark

Questions: 1.

Create User table with user with email, username, roll number, password
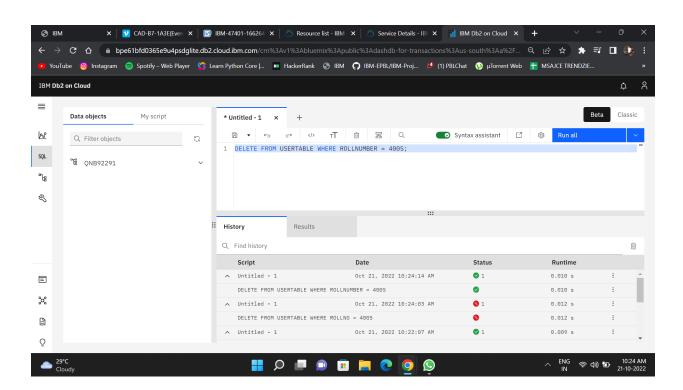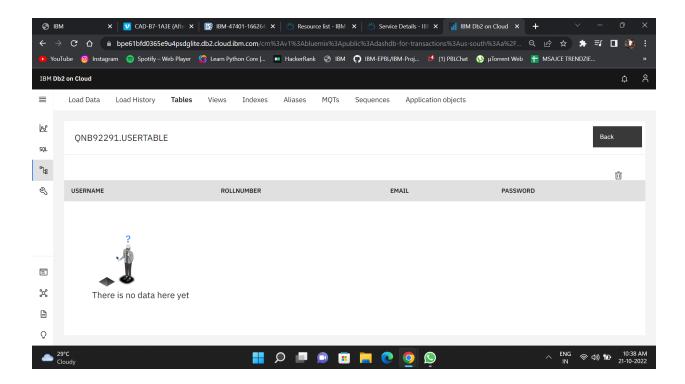
2. Perform UPDATE,DELETE Queries with user table.

DELETE TABLE:

3.Connect python code to db2

```
 1  from flask import Flask, render_template, request, redirect,
    url_for, session
 2  import ibm_db
 3  import re
 4  app = Flask(__name__)
 5  app.secret_key = 'a'
 6  conn =
    ibm_db.connect("DATABASE=User;HOSTNAME=bpe61bfd0365e9u4psdglite
    1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=5671;USERNAME=
    Ari9767;PASSWORD=89gjhayugytueygg;SECURITY=SSL;
 7  tGlobalRootCA.crt;", "", "")
 8  @app.route("/", methods=['GET', 'POST'])
 9  def register():
10  msg = ''
11  if request.method == 'POST':
12  username = request.form['username']
13  email = request.form['email']
14  password = request.form['password']
15  sql = "SELECT * FROM users WHERE username =?"
16  stmt = ibm_db.prepare(conn, sql)
17  ibm_db.bind_param(stmt, 1, username)
```

```python
18 ibm_db.execute(stmt)
19 account = ibm_db.fetch_assoc(stmt)
20 print(account)
21 if account:
22 msg = 'Account already exists !'
23 elif not re.match(r'[^@]+@[^@]+\.[^@]+', email):
24 msg = 'Invalid email address !'
25 elif not re.match(r'[A-Za-z0-9]+', username):
26 msg = 'name must contain only characters and numbers !'
27 else:
28 insert_sql = "INSERT INTO users VALUES (?, ?, ?)"
29 prep_stmt = ibm_db.prepare(conn, insert_sql)
30 ibm_db.bind_param(prep_stmt, 1, username)
31 ibm_db.bind_param(prep_stmt, 2, email)
32 ibm_db.bind_param(prep_stmt, 3, password)
33 ibm_db.execute(prep_stmt)
34 msg = 'You have successfully registered !'
35 elif request.method == 'POST':
36 msg = 'Please fill out the form !'
37 return render_template('register.html', msg=msg)
38 @app.route('/login', methods=['GET', 'POST'])
39 def login():
40 global userid
41 msg = ''
42 if request.method == 'POST':
43 username = request.form['username']
44 password = request.form['password']
45 sql = "SELECT * FROM users WHERE username =? AND password=?"
46 stmt = ibm_db.prepare(conn, sql)
47 ibm_db.bind_param(stmt, 1, username)
48 ibm_db.bind_param(stmt, 2, password)
49 ibm_db.execute(stmt)
50 account = ibm_db.fetch_assoc(stmt)
51 print(account)
52 if account:
53 session['loggedin'] = True
54 session['id'] = account['USERNAME']
55 userid = account['USERNAME']
56 session['username'] = account['USERNAME']
57 msg = 'Logged in successfully !'
```

```
58 msg = 'Logged in successfully !'
59 return render_template('dashboard.html', msg=msg)
60 else:
61 msg = 'Incorrect username / password !'
62 return render_template('login.html', msg=msg)
63 if __name__ == '__main__':
64 app.run(host='0.0.0.0')
65 # app.run(debug=True)
```

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

App.py

```
1  from flask import Flask, render_template, request, redirect,
   url_for, session
2  import ibm_db
3  import re
4  app = Flask(__name__)
5  app.secret_key = 'a'
6  conn =
   ibm_db.connect("DATABASE=User;HOSTNAME=bpe61bfd0365e9u4psdglite.c
   1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=5671;USERNAME=
   Ari9767;PASSWORD=89gjhayugytueygg;SECURITY=SSL;
7  tGlobalRootCA.crt;", "", "")
8  @app.route("/", methods=['GET', 'POST'])
9  def register():
10 msg = ''
11 if request.method == 'POST':
12 username = request.form['username']
13 email = request.form['email']
14 password = request.form['password']
15 sql = "SELECT * FROM users WHERE username =?"
16 stmt = ibm_db.prepare(conn, sql)
17 ibm_db.bind_param(stmt, 1, username)
18 ibm_db.execute(stmt)
19 account = ibm_db.fetch_assoc(stmt)
```

```python
20 print(account)
21 if account:
22 msg = 'Account already exists !'
23 elif not re.match(r'[^@]+@[^@]+\.[^@]+', email):
24 msg = 'Invalid email address !'
25 elif not re.match(r'[A-Za-z0-9]+', username):
26 msg = 'name must contain only characters and numbers !'
27 else:
28 insert_sql = "INSERT INTO users VALUES (?, ?, ?)"
29 prep_stmt = ibm_db.prepare(conn, insert_sql)
30 ibm_db.bind_param(prep_stmt, 1, username)
31 ibm_db.bind_param(prep_stmt, 2, email)
32 ibm_db.bind_param(prep_stmt, 3, password)
33 ibm_db.execute(prep_stmt)
34 msg = 'You have successfully registered !'
35 elif request.method == 'POST':
36 msg = 'Please fill out the form !'
37 return render_template('register.html', msg=msg)
38 @app.route('/login', methods=['GET', 'POST'])
39 def login():
40 global userid
41 msg = ''
42 if request.method == 'POST':
43 username = request.form['username']
44 password = request.form['password']
45 sql = "SELECT * FROM users WHERE username =? AND password=?"
46 stmt = ibm_db.prepare(conn, sql)
47 ibm_db.bind_param(stmt, 1, username)
48 ibm_db.bind_param(stmt, 2, password)
49 ibm_db.execute(stmt)
50 account = ibm_db.fetch_assoc(stmt)
51 print(account)
52 if account:
53 session['loggedin'] = True
54 session['id'] = account['USERNAME']
55 userid = account['USERNAME']
56 session['username'] = account['USERNAME']
57 msg = 'Logged in successfully !'
58 msg = 'Logged in successfully !'
59 return render_template('dashboard.html', msg=msg)
```

```python
60 else:
61 msg = 'Incorrect username / password !'
62 return render_template('login.html', msg=msg)
63 if __name__ == '__main__':
64 app.run(host='0.0.0.0')
65 # app.run(debug=True)
```

Login:

```html
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4  <meta charset="UTF-8">
5  <meta http-equiv="X-UA-Compatible" content="IE=edge">
6  <meta name="viewport" content="width=device-width, initial-
   scale=1.0">
7  <title>Customer Care Login</title>
8  <!-- favicon -->
9  <!-- <link rel="shortcut icon" href="/assets/img/favicon.ico"
10 type="image/x-icon"> -->
11 <!-- <link rel="icon" href="/assets/img/favicon.ico"
   type="image/x-icon">
12 -->
13 <link rel="icon" type="image/png" sizes="16x16"
   href="/assets/img/favicon32x32.png">
14 <!-- bootstrap css cdn -->
15 <link rel="stylesheet"
16 href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/boot
   strap.min.css
17 "
18 integrity="sha384-
19 JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
20 crossorigin="anonymous">
21 <link rel="stylesheet"
   href="https://cdnjs.cloudflare.com/ajax/libs/fontawesome/4.7.0/cs
   s/font-awesome.css">
22 <!-- css stylesheet -->
23 <link rel="stylesheet" href="/static/css/style2.css">
24 <!-- font styles cdn -->
```

```
25 <link rel="preconnect" href="https://fonts.gstatic.com">
26 <link
27 href="https://fonts.googleapis.com/css2?family=Alegreya&display=s
   wap"
28 rel="stylesheet">
29 <link
30 href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&
   display=swap"
31 rel="stylesheet">
32 </head>
33 <body>
34 <div class="login text-center mt-5">
35 <form action="/login" method="post">
36 <h2 class="form-text-h2"> Login Form </h2>
37 <div class="msg">{{ msg }}</div>
38 <div class="form-group mb-3">
39 <label class="label" for="username">Username</label>
40 <input type="text" class="form-control" placeholder="Username"
41 name="username" required>
42 </div>
43 <div class="form-group mb-3">
44 <label class="label" for="password">Password</label>
45 <input type="password" class="form-control"
46 placeholder="Password" name="password" required>
47 </div>
48 <button type="submit" id="button" class="btn btn-primary"> Login
49 </button>
50 <div class="note mt-3 text-center">
51 <!--Register form -->
52 <p> Don't have an account yet? Click here to <a
53 href="/">register </a> </p>
54 </div>
55 </form>
56 </div>
57 </body>
58 </html>
```

Register:

```
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-
    scale=1.0">
7   <title> Customer care Registry</title>
8   <!-- bootstrap css cdn -->
9   <link rel="stylesheet"
10  href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstr
    ap.min.css
11  "
12  integrity="sha384-
13  JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
14  crossorigin="anonymous">
15  <link rel="stylesheet"
    href="https://cdnjs.cloudflare.com/ajax/libs/fontawesome/4.7.0/css/f
    ont-awesome.css">
16  <!-- css stylesheet -->
17  <link rel="stylesheet" href="/static/css/style.css">
18  <!-- font styles cdn -->
19  <link rel="preconnect" href="https://fonts.gstatic.com">
20  <link
21  href="https://fonts.googleapis.com/css2?family=Alegreya&display=swa
    p"
22  rel="stylesheet">
23  <link
24  href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&dis
    play=swap"
25  rel="stylesheet">
26  </head>
27  <body>
28  <!-- bootstrap navbar -->
```

```html
29 <!-- navbar ends -->
30 <!-- Login form -->
31 <div class="login text-center mt-5">
32 <form action="/" method="post">
33 <h2 class="form-text-h2"> Register Form </h2>
34 <div class="msg">{{ msg }}</div>
35 <input type="text" class="form-control" name="username"
36 placeholder="Enter Your Username" id="username"
37 required>
38 <input type="email" class="form-control" name="email"
39 placeholder="Enter Your Email ID" id="email" required>
40 <input type="password" class="form-control" name="password"
41 placeholder="Enter Your Password" id="password"
42 required>
43 <button type="submit" id="button" class="btn btn-primary">
44 Register </button>
45 <div class="note mt-3 text-center">
46 <!--Register form -->
47 <p> already have an account ? please login <a
48 href="/login">login.. </a> </p>
49 </div>
50 </form>
51 </div>
52 </body>
53 </html>
```

Style.css

```css
1 * {
2     margin: 0;
3     padding: 0;
4     }
5     body {
6     background-color: aqua !important;
```

```css
7        display: flex;
8        flex-direction: column;
9        align-items: center;
10       justify-content: center;
11       }
12       form {
13       display: flex;
14       flex-direction: column;
15       align-items: center;
16       justify-content: center;
17       background-color: white;
18       width: 40%;
19       height: 450px;
20       border-radius: 50px;
21       margin: 100px;
22       gap: 25px;
23       }
24       h2 {
25       font-size: large;
26       font-weight: bolder;
27       }
28       input {
29       width: 80% !important;
30       }
31       div {
32       display: flex;
33       align-items: center;
34       justify-content: center;
35       flex-direction: column;
36       width: 90%;
37       }
38       .form-text-vk {
39       font-size: small;
40       padding-bottom: 10px;
41       }
42       .form-text-h2 {
43       font-size: x-large;
44       padding-top: 10px;
45       }
```

The DataBase is created: