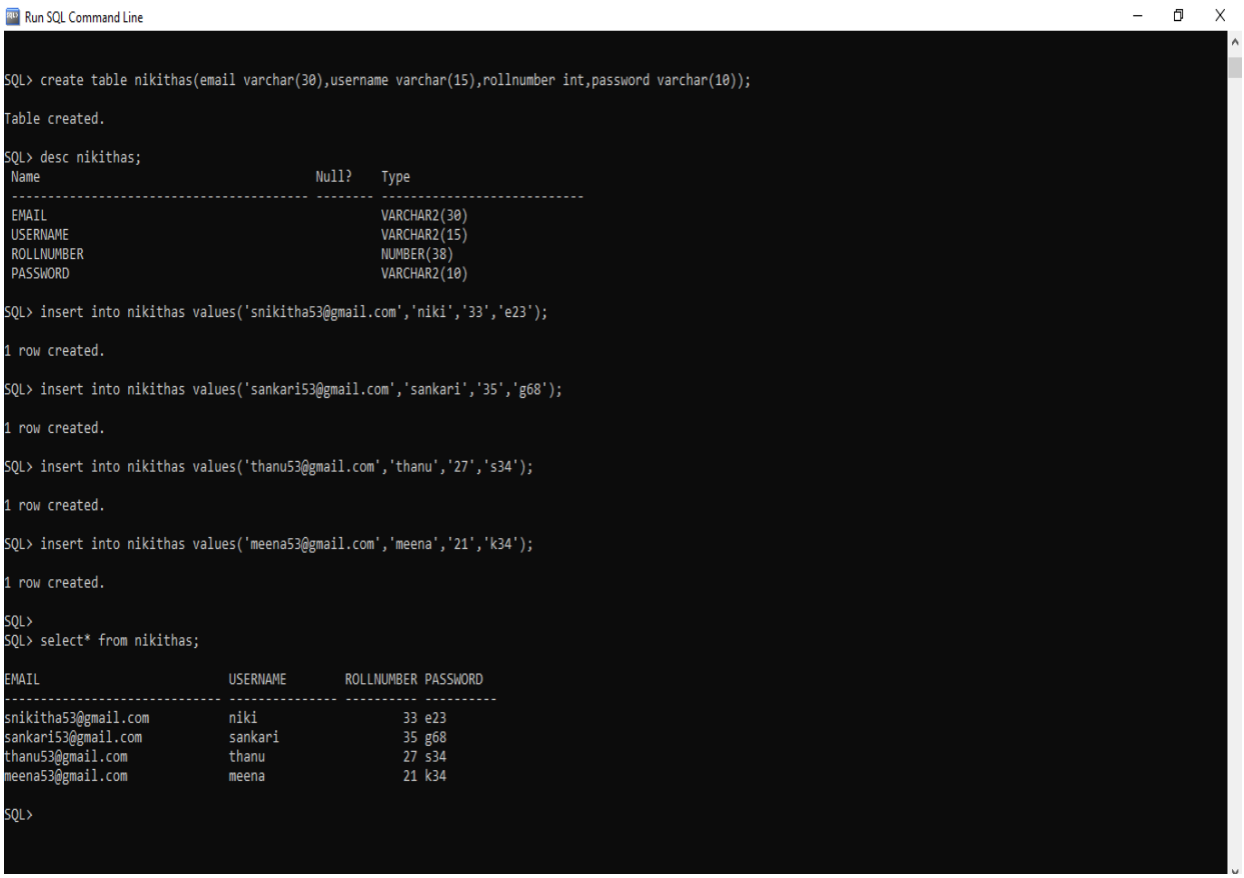
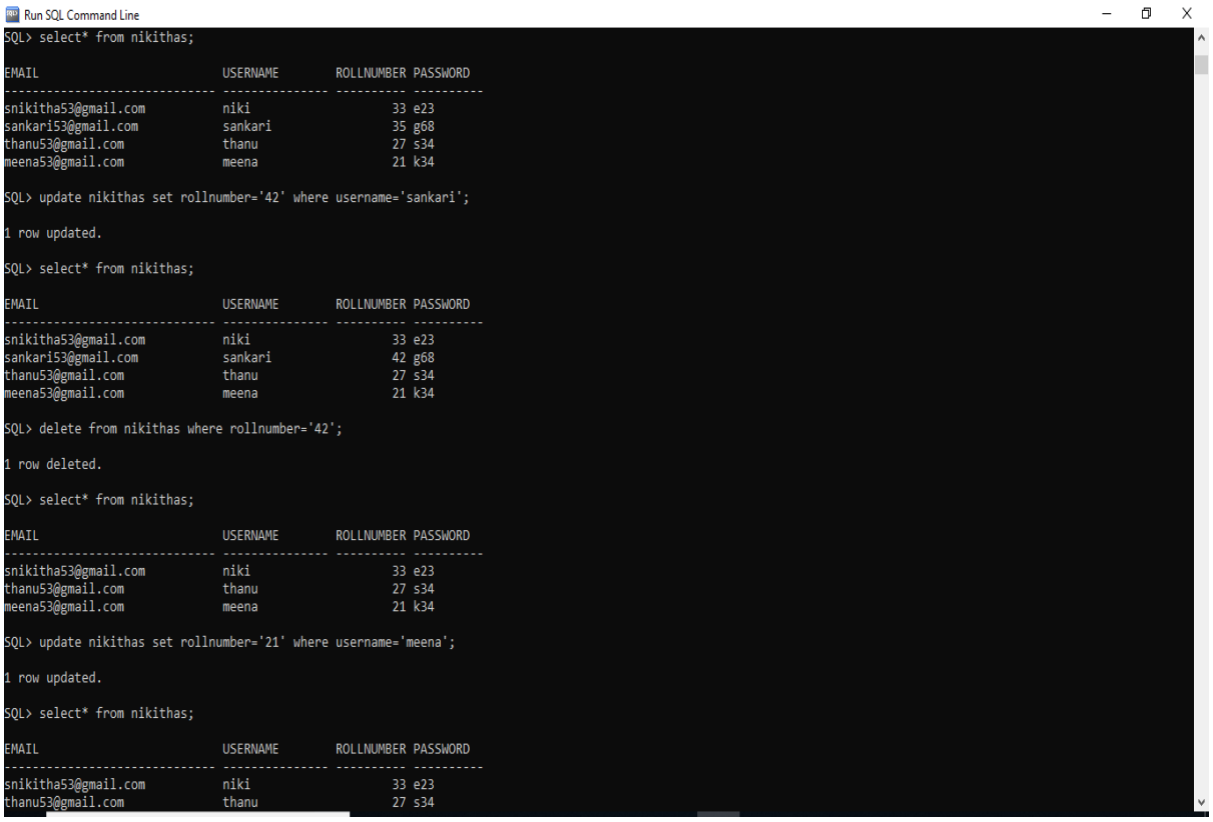
ASSIGNMENT-3

TEAM ID	PNT2022TMID49560
PROJECT NAME	CUSTOMER CARE REGISTRY
NAME	NIKITHA.S
ROLL NO	950019104033

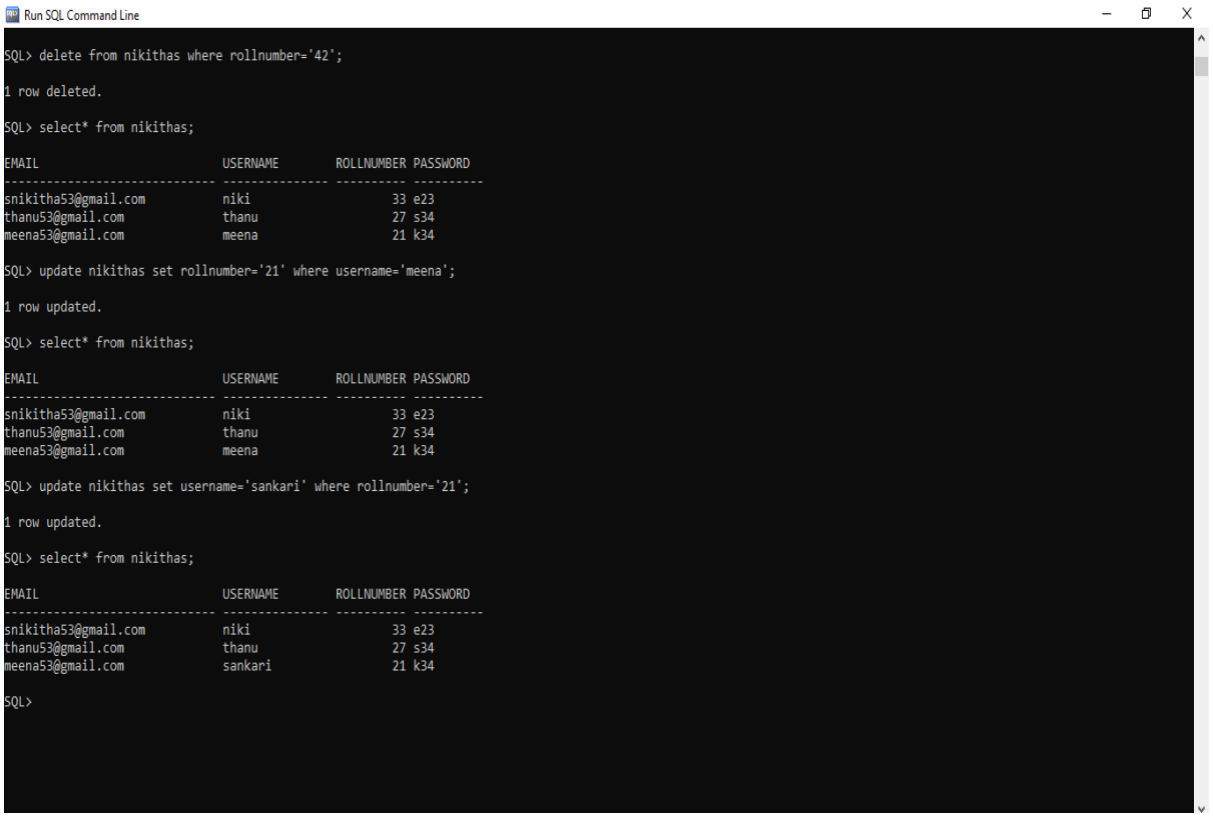
1. Create User table with user with email, username, rollnumber, password.



2. Perform UPDATE, DELETE Queries with user table



```
Run SQL Command Line
SQL> select* from nikithas;

EMAIL                          USERNAME        ROLLNUMBER PASSWORD
------------------------------ --------------- ---------- ----------
snikitha53@gmail.com           niki                    33 e23
sankari53@gmail.com            sankari                 35 g68
thanu53@gmail.com              thanu                   27 s34
meena53@gmail.com              meena                   21 k34

SQL> update nikithas set rollnumber='42' where username='sankari';

1 row updated.

SQL> select* from nikithas;

EMAIL                          USERNAME        ROLLNUMBER PASSWORD
------------------------------ --------------- ---------- ----------
snikitha53@gmail.com           niki                    33 e23
sankari53@gmail.com            sankari                 42 g68
thanu53@gmail.com              thanu                   27 s34
meena53@gmail.com              meena                   21 k34

SQL> delete from nikithas where rollnumber='42';

1 row deleted.

SQL> select* from nikithas;

EMAIL                          USERNAME        ROLLNUMBER PASSWORD
------------------------------ --------------- ---------- ----------
snikitha53@gmail.com           niki                    33 e23
thanu53@gmail.com              thanu                   27 s34
meena53@gmail.com              meena                   21 k34

SQL> update nikithas set rollnumber='21' where username='meena';

1 row updated.

SQL> select* from nikithas;

EMAIL                          USERNAME        ROLLNUMBER PASSWORD
------------------------------ --------------- ---------- ----------
snikitha53@gmail.com           niki                    33 e23
thanu53@gmail.com              thanu                   27 s34
```



```
Run SQL Command Line
SQL> delete from nikithas where rollnumber='42';

1 row deleted.

SQL> select* from nikithas;

EMAIL                          USERNAME        ROLLNUMBER PASSWORD
------------------------------ --------------- ---------- ----------
snikitha53@gmail.com           niki                    33 e23
thanu53@gmail.com              thanu                   27 s34
meena53@gmail.com              meena                   21 k34

SQL> update nikithas set rollnumber='21' where username='meena';

1 row updated.

SQL> select* from nikithas;

EMAIL                          USERNAME        ROLLNUMBER PASSWORD
------------------------------ --------------- ---------- ----------
snikitha53@gmail.com           niki                    33 e23
thanu53@gmail.com              thanu                   27 s34
meena53@gmail.com              meena                   21 k34

SQL> update nikithas set username='sankari' where rollnumber='21';

1 row updated.

SQL> select* from nikithas;

EMAIL                          USERNAME        ROLLNUMBER PASSWORD
------------------------------ --------------- ---------- ----------
snikitha53@gmail.com           niki                    33 e23
thanu53@gmail.com              thanu                   27 s34
meena53@gmail.com              sankari                 21 k34

SQL>
```

3. Connect python code to db2

conn = ibm_db.connect("DATABASE=bludb;HOSTNAME= 6667d8e9-9d4d-4ccb-ba32-21da3bb5aafc.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30376;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID="qyx89921";PWD="WCwKRMydwCwHQhoe"","","")

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 the database and navigate to the login page to authenticate user username and password. If the user is valid show the welcome page**

app.py

```
from flask import Flask, render_template, request, redirect, url_for, session
import ibm_db
import re
app = Flask(__name__)
app.secret_key = 'a'
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=b0aebb68-94fa-46ec-a1fc-1c999edb6187.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=31249;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=ldc29737;PWD=8chltNu9YvPRo0Sw","","")
@app.route('/')
def home():
    return render_template('register.html')
@app.route('/login', methods =['GET', 'POST'])
def login():
    global userid
    msg = ''
    if request.method == 'POST'and 'username' in request.form and 'password' in request.form:
        username = request.form['username']
        password = request.form['password']
        stmt = ibm_db.prepare(conn,'SELECT * FROM accounts WHERE username = ? AND password = ?')
        ibm_db.bind_param(stmt,1,username)
        ibm_db.bind_param(stmt,2,password)
        ibm_db.execute(stmt)
        account = ibm_db.fetch_assoc(stmt)
        if account:
```

```
            session['loggedin'] = True
            session['username'] = account['USERNAME']
            msg = 'Logged in successfully !'
            return render_template('index.html', msg = msg)
        else:
            msg = 'Incorrect username / password !'
    return render_template('login.html', msg = msg)

@app.route('/logout')
def logout():
    session.pop('loggedin', None)
    session.pop('id', None)
    session.pop('username', None)
    return redirect(url_for('login'))

@app.route('/register', methods =['GET', 'POST'])
def register():
    msg = ''
    if request.method == 'POST':
        username = request.form['username']
        password = request.form['password']
        email = request.form['email']
        sql = "SELECT * FROM accounts 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 characters and numbers !'
        elif not username or not password or not email:
            msg = 'Please fill out the form !'
        else:
            insert_sql = "INSERT INTO accounts VALUES (?, ?, ?)"
            stmt = ibm_db.prepare(conn,insert_sql)
            ibm_db.bind_param(stmt, 1, username)
            ibm_db.bind_param(stmt, 2, password)
            ibm_db.bind_param(stmt, 3, email)
            ibm_db.execute(stmt)
            msg = 'You have successfully registered !'
```

```
        elif request.method == 'POST':
            msg = 'Please fill out the form !'

        return render_template('register.html', msg = msg)
    if __name__ == '__main__':
        app.run(debug = True)
```

index.html

```
<html>
  <head>
    <meta charset="UTF-8">
    <title> Index </title>
    <link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
  </head>
  <body></br></br></br></br></br>
    <div align="center">
     <div align="center" class="border">
       <div class="header">
         <h1 class="word">Index</h1>
       </div></br></br></br>
         <h1 class="bottom">
            Hi {{session.username}}!!</br></br> Welcome to the index page...
         </h1></br></br></br>
         <a href="{{ url_for('logout') }}" class="btn">Logout</a>
     </div>
    </div>
  </body>
</html>
```

register.html

```
<html>
  <head>
    <meta charset="UTF-8">
    <title> Register </title>
    <link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
  </head>
  <body></br></br></br></br></br>
    <div align="center">
     <div align="center" class="border">
       <div class="header">
         <h1 class="word">Register</h1>
       </div></br></br></br>
```

```
        <h2 class="word">
            <form action="{{ url_for('register') }}" method="post">
              <div class="msg">{{ msg }}</div>
                <input id="username" name="username" type="text" placeholder="Enter Your
Username" class="textbox"/></br></br>
                <input id="password" name="password" type="password" placeholder="Enter
Your Password" class="textbox"/></br></br>
                <input id="email" name="email" type="text" placeholder="Enter Your Email
ID" class="textbox"/></br></br>
                <input type="submit" class="btn" value="Sign Up"></br>
            </form>
        </h2>
        <p class="bottom">Already have an account?  <a class="bottom"
href="{{url_for('login')}}"> Sign In here</a></p>
      </div>
    </div>
  </body>
</html>
```

login.html

```
<html>
  <head>
    <meta charset="UTF-8">
    <title> Login </title>
    <link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
  </head>
  <body></br></br></br></br></br>
    <div align="center">
     <div align="center" class="border">
       <div class="header">
         <h1 class="word">Login</h1>
       </div></br></br></br>
       <h2 class="word">
         <form action="{{ url_for('login') }}" method="post">
           <div class="msg">{{ msg }}</div>
             <input id="username" name="username" type="text" placeholder="Enter Your
Username" class="textbox"/></br></br>
             <input id="password" name="password" type="password" placeholder="Enter
Your Password" class="textbox"/></br></br></br>
             <input type="submit" class="btn" value="Sign In"></br></br>
         </form>
       </h2>
```

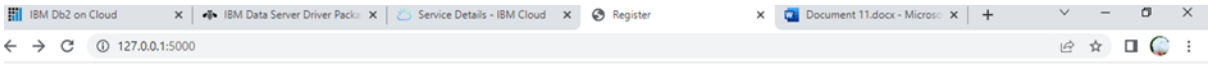
```
        <p class="bottom">Don't have an account?  <a class="bottom"
href="{{url_for('register')}}"> Sign Up here</a></p>
      </div>
    </div>
  </body>
</html>
```

style.css

```
.header{
        padding: 5px 120px;
        width: 150px;
        height: 70px;
        background-color: #236B8E;
    }

    .border{
        padding: 80px 50px;
        width: 400px;
        height: 450px;
        border: 1px solid #236B8E;
        border-radius: 0px;
        background-color: #9AC0CD;
    }

    .btn {
        padding: 10px 40px;
        background-color: #236B8E;
        color: #FFFFFF;
        font-style: oblique;
        font-weight: bold;
        border-radius: 10px;
    }

    .textbox{
        padding: 10px 40px;
        background-color: #236B8E;
        text-color: #FFFFFF;
        border-radius: 10px;
    }

    ::placeholder {
        color: #FFFFFF;
```

```
    opacity: 1;
    font-style: oblique;
    font-weight: bold;
}

.word{
    color: #FFFFFF;
    font-style: oblique;
    font-weight: bold;
}

.bottom{
    color: #236B8E;
    font-style: oblique;
    font-weight: bold;
}
```

OUTPUT



Register

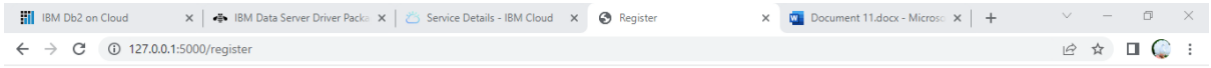
nikiths

••••

niki@gmail.com

Sign Up

Already have an account? Sign In here



Register

You have successfully registered !

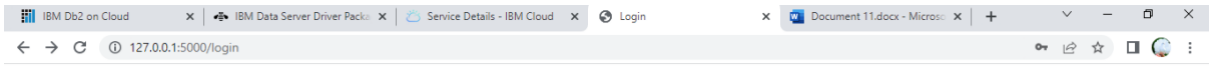
Enter Your Username

Enter Your Password

Enter Your Email ID

Sign Up

Already have an account? Sign In here



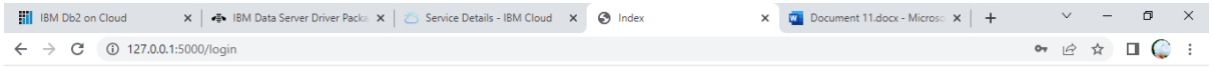
Login

nikiths

••••

Sign In

Don't have an account? Sign Up here



Index

Hi nikiths !!

Welcome to the index page...

Logout