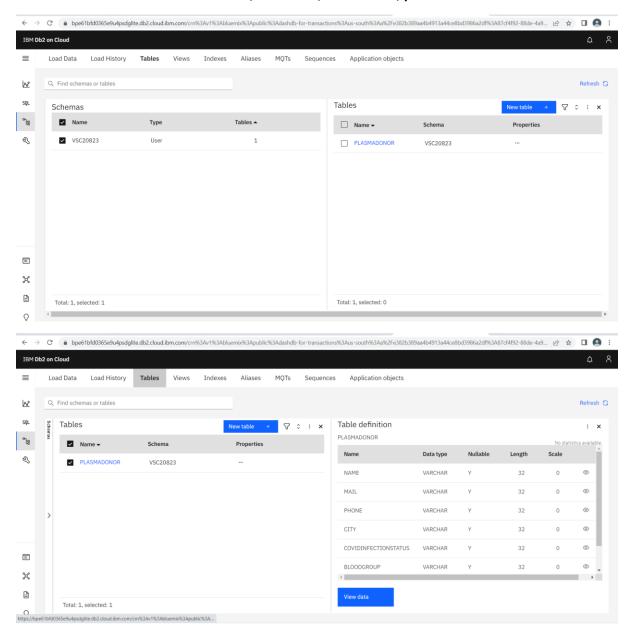
## Assignment -2

Assignment Date	19 September 2022
Student Name	Sathya Jayasri S
Student Roll Number	820419104064
Maximum Marks	2 Marks

## Question-1:

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



## Question-2:

# Perform UPDATE, DELETE Queries with user table Solution:

# insert into plasmadonor

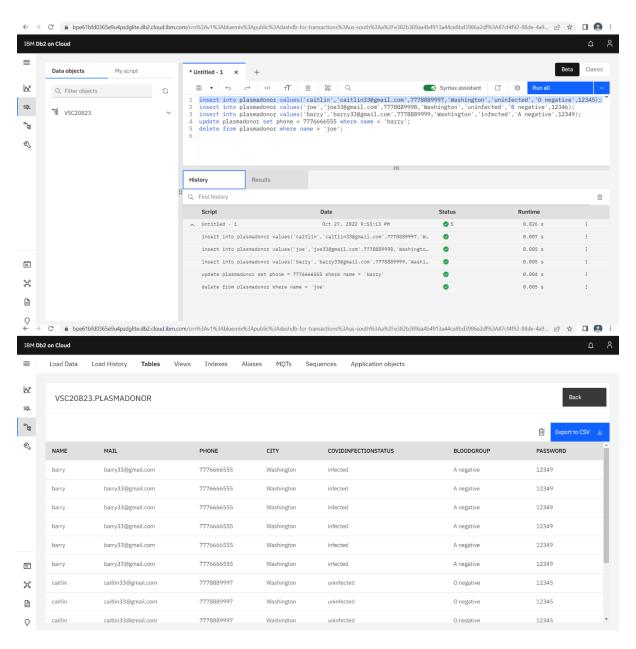
values('caitlin', 'caitlin33@gmail.com', '7778889997', 'Washington', 'uninfected', 'O negative', '12345');

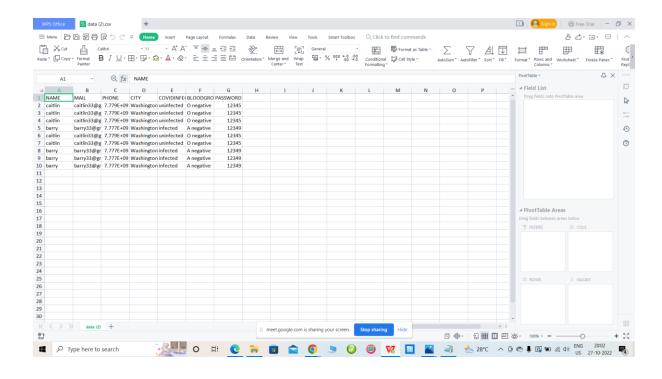
insert into plasmadonor values('joe','joe33@gmail.com','7778889998','Washington','uninfected','B negative','12346');

insert into plasmadonor values('barry','barry33@gmail.com','7778889999','Washington','infected','A negative','12349');

update plasmadonor set phone = '7776666555' where name = 'barry';

delete from plasmadonor where name = 'joe';



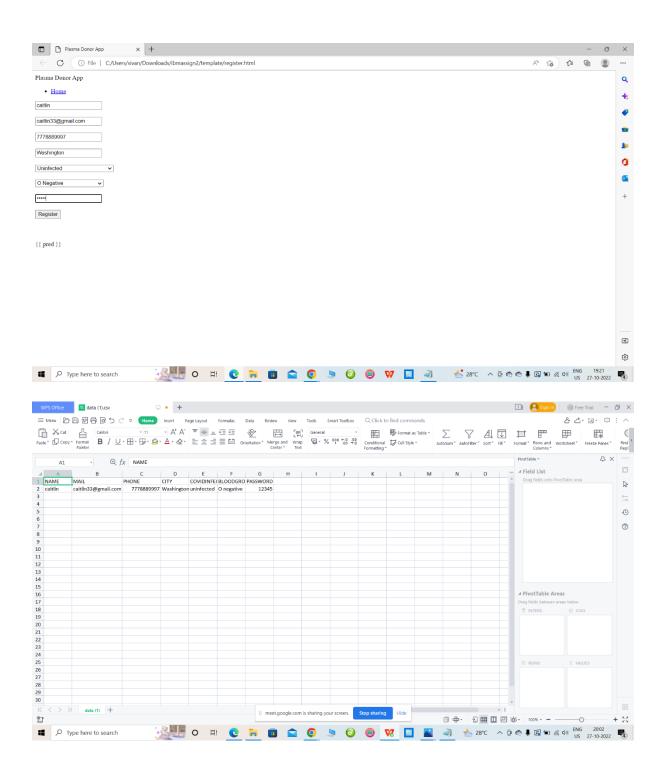


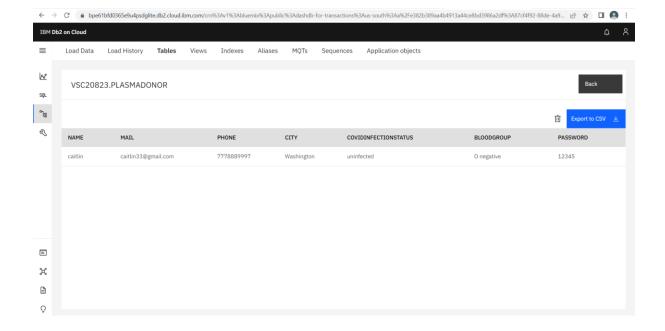
## Question-3:

Connect python code to db2.

#### **Solution:**

conn = ibm\_db.connect("DATABASE=bludb;HOSTNAME=3883e7e4-18f5-4afe-be8c-fa31c41761d2.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;PORT=31498;SECURITY=SSL;SSL ServerCertificate=DigiCertGlobalRootCA.crt;UID=sch83401;PWD=j7QZUHGAtUGbPhns",",")





#### Question-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

#### **Solution:**

register.html

```
<!DOCTYPE html>
<html>
<!--From https://codepen.io/frytyler/pen/EGdtg-->
 <meta charset="UTF-8">
 <title>Plasma Donor App</title>
        k href='https://fonts.googleapis.com/css?family=Pacifico' rel='stylesheet'
type='text/css'>
        <link href='https://fonts.googleapis.com/css?family=Arimo' rel='stylesheet'</pre>
type='text/css'>
        <link href='https://fonts.googleapis.com/css?family=Hind:300' rel='stylesheet'</pre>
type='text/css'>
        k href='https://fonts.googleapis.com/css?family=Open+Sans+Condensed:300'
rel='stylesheet' type='text/css'>
        <link rel="stylesheet" href="{{ url_for('static', filename='style1.css') }}">
        <!link rel="stylesheet" href="style.css">
<style>
.login{
top: 20%;
}
```

```
</style>
</head>
<body>
<div class="header">
<div>Plasma Donor App</div>
       <l
       <a class="active" href="/login">Home</a>
       </div>
<div class="login">
  <!-- Main Input For Receiving Query to our ML -->
 <form action="{{ url for('register')}}"method="post">
       <input type="text" name="name" placeholder="Enter Your Name" required="required"
style="color:black"/>
    <input type="email" name="email" placeholder="Enter Email" required="required"</p>
style="color:black"/>
              <input type="text" name="phone" placeholder="Enter 10-digit mobile number"
required="required" style="color:black"/>
    <input type="city" name="city" placeholder="Enter Your City Name" required="required"
style="color:black"/>
              <select name="infect">
 <option value="select" selected>Select COVID infection status/option><option</pre>
value="infected">Infected</option>
 <option value="uninfected">Uninfected</option>
              </select>
    <select name="blood">
<option value="select" selected>Choose your blood group
<option value="O Positive">O Positive</option>
<option value="A Positive">A Positive
<option value="B Positive">B Positive
<option value="AB Positive">AB Positive
<option value="O Negative">O Negative
<option value="A Negative">A Negative
<option value="B Negative">B Negative
 <option value="AB Negative">AB Negative
              </select>
    <input type="password" name="passw" placeholder="Enter Password" required="required"
style="color:black"/>
    <button type="submit" class="btn btn-primary btn-block btn-large">Register</button>
 </form>
<br><br><
<div style="color:black">
{{ pred }}</div>
</div>
```

```
</body>
</html>
login.html
<!DOCTYPE html>
```

```
<html>
<!--From https://codepen.io/frytyler/pen/EGdtg-->
<head>
<meta charset="UTF-8">
<title>Plasma Donor App</title>
       k href='https://fonts.googleapis.com/css?family=Pacifico' rel='stylesheet'
type='text/css'>
       k href='https://fonts.googleapis.com/css?family=Arimo' rel='stylesheet'
type='text/css'>
       k href='https://fonts.googleapis.com/css?family=Hind:300' rel='stylesheet'
type='text/css'>
       k href='https://fonts.googleapis.com/css?family=Open+Sans+Condensed:300'
rel='stylesheet' type='text/css'>
       <link rel="stylesheet" href="{{ url_for('static', filename='style1.css') }}">
       <!link rel="stylesheet" href="style.css">
<style>
.login{
top: 20%;
</style>
</head>
<body>
<div class="header">
<div>Plasma Donor App</div>
       <l
              <a href="/registration">Register</a>
              <a class="active" href="/login">Home</a>
       </div>
<div class="login" >
              <div>
              </div>
  <!-- Main Input For Receiving Query to our ML -->
```

```
<form action="{{ url_for('loginpage')}}"method="post">
       <input type="text" name="user" placeholder="Enter UserName" required="required"
style="color:black" />
    <input type="password" name="passw" placeholder="Enter Password" required="required"
style="color:black" />
    <button type="submit" class="btn btn-primary btn-block btn-large">Login</button>
  </form>
<br><br><
<div style="color :black">
{{ pred }}</div>
</div>
</body>
</html>
style.css
@import url(https://fonts.googleapis.com/css?family=Open+Sans);
.btn {
       display: inline-block;
       *display: inline;
       *zoom: 1; padding:
       4px 10px 4px;
       margin-bottom: 0;
       font-size: 13px;
       line-height: 18px;
       color: #333333;
       text-align: center;
       text-shadow: 0 1px 1px rgba(255, 255, 255, 0.75);
       vertical-align: middle;
       background-color: #f5f5f5;
       background-image: -moz-linear-gradient(top, #ffffff, #e6e6e6);
       background-image: -ms-linear-gradient(top, #ffffff, #e6e6e6);
       background-image: -webkit-gradient(linear, 0 0, 0 100%, from(#ffffff), to(#e6e6e6));
       background-image: -webkit-linear-gradient(top, #ffffff, #e6e6e6);
       background-image: -o-linear-gradient(top, #ffffff, #e6e6e6);
       background-image: linear-gradient(top, #ffffff, #e6e6e6);
       background-repeat: repeat-x;
       filter: progid:dximagetransform.microsoft.gradient(startColorstr=#ffffff,
endColorstr=#e6e6e6, GradientType=0);
       border-color: #e6e6e6 #e6e6e6 #e6e6e6;
       border-color: rgba(0, 0, 0, 0.1) rgba(0, 0, 0, 0.1) rgba(0, 0, 0, 0.25);
       border: 1px solid #e6e6e6;
       -webkit-border-radius: 4px;
```

```
-moz-border-radius: 4px;
       border-radius: 4px;
       -webkit-box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05);
       -moz-box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05);
       box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05);
       cursor: pointer; *margin-left: .3em;
.btn:hover, .btn:active, .btn.active, .btn.disabled, .btn[disabled] { background-color: #e6e6e6; }
.btn-large {
       padding: 9px 14px;
       font-size: 15px;
       line-height: normal;
       -webkit-border-radius: 5px;
       -moz-border-radius: 5px;
       border-radius: 5px;
.btn:hover {
       color: #333333;
       text-decoration: none;
       background-color: #e6e6e6;
       background-position: 0 -15px;
       -webkit-transition: background-position 0.1s linear;
       -moz-transition: background-position 0.1s linear;
       -ms-transition: background-position 0.1s linear;
       -o-transition: background-position 0.1s linear;
       transition: background-position 0.1s linear;
       }
.btn-primary, .btn-primary:hover {
       text-shadow: 0 -1px 0 rgba(0, 0, 0, 0.25);
       color: #ffffff;
       }
.btn-primary.active { color: rgba(255, 255, 255, 0.75); }
.btn-primary {
       background-color: #4a77d4;
       background-image: -moz-linear-gradient(top, #6eb6de, #4a77d4);
       background-image: -ms-linear-gradient(top, #6eb6de, #4a77d4);
       background-image: -webkit-gradient(linear, 0 0, 0 100%, from(#6eb6de), to(#4a77d4));
       background-image: -webkit-linear-gradient(top, #6eb6de, #4a77d4);
       background-image: -o-linear-gradient(top, #6eb6de, #4a77d4);
       background-image: linear-gradient(top, #6eb6de, #4a77d4);
```

```
background-repeat: repeat-x;
        filter: progid:dximagetransform.microsoft.gradient(startColorstr=#6eb6de,
endColorstr=#4a77d4, GradientType=0);
        border: 1px solid #3762bc;
        text-shadow: 1px 1px 1px rgba(0,0,0,0.4);
        box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.5);
.btn-primary:hover, .btn-primary:active, .btn-primary.active, .btn-primary.disabled, .btn-
primary[disabled] {
        filter: none;
        background-color: #4a77d4;
.btn-block { width: 100%; display:block; }
* { -webkit-box-sizing:border-box; -moz-box-sizing:border-box; -ms-box-sizing:border-box; -o-box-
sizing:border-box; box-sizing:border-box; }
html { width: 100%; height:100%; overflow:hidden; }
body {
        width: 100%;
        height:100%;
        font-family: 'Open Sans', sans-serif;
        background: #fffff;
        color: #000000;
        font-size: 18px;
        text-align:center;
        letter-spacing:1.2px;
}
.header {
                       top:0;
                       margin:0px;
                       left: 0px;
                       right: 0px;
                       position: fixed;
                       background: #4a77d4;
                       color: white;
                       box-shadow: 0px 8px 4px grey;
                       overflow: hidden;
                       padding: 15px;
                       font-size: 1.5vw;
```

```
width: 100%;
                        text-align: center;
                }
.login {
        position: absolute;
        top: 70%;
        left: 50%;
        margin: -25px 0 0 -150px;
        width:400px;
        height:400px;
}
.header div { color: #fff; text-shadow: 0 0 10px rgba(0,0,0,0.3); letter-spacing:1px; text-
align:center; float:left; padding-left:150px;}
ul {
 list-style-type: none;
 margin: 0;
 padding: 0;
 padding-right:150px;
 overflow: hidden;
}
li {
 float: right;
}
li a {
 display: block;
 color: white;
 text-align: center;
 padding: 0px 15px;
 text-decoration: none;
}
input {
        width: 100%;
        margin-bottom: 10px;
        background: rgba(255,255,255,255);
        border: none;
        outline: none;
        padding: 10px;
        font-size: 13px;
        color: black;
```

```
text-shadow: black;
       border: 1px solid rgba(0,0,0,0.3);
       border-radius: 4px;
       box-shadow: inset 0 -5px 45px rgba(100,100,100,0.2), 0 1px 1px rgba(255,255,255,0.2);
       -webkit-transition: box-shadow .5s ease;
       -moz-transition: box-shadow .5s ease;
       -o-transition: box-shadow .5s ease;
       -ms-transition: box-shadow .5s ease;
       transition: box-shadow .5s ease;
}
input:focus { box-shadow: inset 0 -5px 45px rgba(100,100,100,0.4), 0 1px 1px
rgba(255,255,255,0.2); }
select {
       width: 100%;
       margin-bottom: 10px;
       background: rgba(255,255,255,255);
       border: none;
       outline: none;
       padding: 10px;
       font-size: 13px;
       color: #000000;
       text-shadow: 1px 1px 1px rgba(0,0,0,0.3);
       border: 1px solid rgba(0,0,0,0.3);
       border-radius: 4px;
       box-shadow: inset 0 -5px 45px rgba(100,100,100,0.2), 0 1px 1px rgba(255,255,255,0.2);
       -webkit-transition: box-shadow .5s ease;
       -moz-transition: box-shadow .5s ease;
       -o-transition: box-shadow .5s ease;
       -ms-transition: box-shadow .5s ease;
       transition: box-shadow .5s ease;
}
app.py
from flask import Flask, render_template, request, redirect, url_for, session
import ibm_db
import json
import requests
app = Flask(__name___)
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=3883e7e4-18f5-4afe-be8c-
fa31c41761d2.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;PORT=31498;SECURITY=SSL;SSL
ServerCertificate=DigiCertGlobalRootCA.crt;UID=sch83401;PWD=j7QZUHGAtUGbPhns",",")
```

```
@app.route('/registration')
def home():
  return render_template('register.html')
@app.route('/register',methods=['POST'])
def register():
  x = [x for x in request.form.values()]
  print(x)
  name=x[0]
  email=x[1]
  phone=x[2]
  city=x[3]
  infect=x[4]
  blood=x[5]
  password=x[6]
  sql = "SELECT * FROM plasmadonor WHERE email =?"
  stmt = ibm_db.prepare(conn, sql)
  ibm_db.bind_param(stmt,1,email)
  ibm_db.execute(stmt)
  account = ibm_db.fetch_assoc(stmt)
  print(account)
  if account:
    return render_template('register.html', pred="You are already a member, please login using
your details")
  else:
    insert_sql = "INSERT INTO plasmadonor VALUES (?, ?, ?, ?, ?, ?)"
    prep_stmt = ibm_db.prepare(conn, insert_sql)
    ibm_db.bind_param(prep_stmt, 1, name)
    ibm_db.bind_param(prep_stmt, 2, email)
    ibm_db.bind_param(prep_stmt, 3, phone)
    ibm_db.bind_param(prep_stmt, 4, city)
    ibm_db.bind_param(prep_stmt, 5, infect)
    ibm_db.bind_param(prep_stmt, 6, blood)
    ibm_db.bind_param(prep_stmt, 7, password)
    ibm_db.execute(prep_stmt)
    return render_template('register.html', pred="Registration Successful, please login using your
details")
@app.route('/')
@app.route('/login')
def login():
  return render_template('login.html')
```

```
@app.route('/loginpage',methods=['POST'])
def loginpage():
  user = request.form['user']
  passw = request.form['passw']
  sql = "SELECT * FROM plasmadonor WHERE email =? AND password=?"
  stmt = ibm_db.prepare(conn, sql)
  ibm db.bind param(stmt,1,user)
  ibm_db.bind_param(stmt,2,passw)
  ibm_db.execute(stmt)
  account = ibm db.fetch assoc(stmt)
  print (account)
  print(user,passw)
  if account:
      return redirect(url_for('stats'))
  else:
    return render_template('login.html', pred="Login unsuccessful. Incorrect username /
password!")
@app.route('/stats')
def stats():
  "sql = "SELECT blood FROM user group by blood"
  stmt = ibm_db.prepare(conn, sql)
  ibm_db.execute(stmt)
  count = ibm_db.fetch_assoc(stmt)
  print(count)"
  return render_template('stats.html',b=5,b1=2,b2=3,b3=4,b4=2,b5=1,b6=2,b7=1,b8=1)
@app.route('/requester')
def requester():
  return render_template('request.html')
@app.route('/requested',methods=['POST'])
def requested():
  bloodgrp = request.form['bloodgrp']
  address = request.form['address']
  print(address)
  sql = "SELECT * FROM plasmadonor WHERE blood=?"
  stmt = ibm_db.prepare(conn, sql)
  ibm_db.bind_param(stmt,1,bloodgrp)
  ibm_db.execute(stmt)
  data = ibm_db.fetch_assoc(stmt)
  msg = "Need Plasma of your blood group for: "+address
  while data != False:
    print ("The Phone is : ", data["PHONE"])
```

url="https://www.fast2sms.com/dev/bulk?authorization=xCXuwWTzyjOD2ARd1EngbH3a7tKlq5PklJ8YSf0Lh4FQZecs9iNI1dSvuqprxFwCKYJXA5amQkBE36Rl&sender\_id=FSTSMS&message="+msg+" &language=english&route=p&numbers="+str(data["PHONE"]) result=requests.request("GET",url) print(result) data = ibm db.fetch assoc(stmt)

return render\_template('request.html', pred="Your request is sent to the concerned people.")

if \_\_name\_\_ == "\_\_main\_\_":
 app.run(host='0.0.0.0', port=8080)

