

ASSIGNMENT - 3

TEAM ID : PNT2022TMID19417

PROJECT NAME : PLASMA DONOR APPLICATION

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

QUERY:

INSERT INTO STUDENTS

```
VALUES(31,'RITHIGA','rithiga@gmail.com','rithi@2'),  
(51,'KALAIYARASI','kalaiyarasi@gmail.com','kalai@2'),  
(61,'SRIMATHI','srinathi@gmail.com','sri@246'),  
(33,'LAVANYA','lavanya@gmail.com','lav@123'),  
(37,'RAHUL','rahul@gmail.com','rahul@43'),  
(39,'MADHAN','madhan@gmail.com','madhan@20'),  
(45,'RAM','ram@gmail.com','ram@209');
```

OUTPUT :

The screenshot displays the IBM Db2 on Cloud web interface. On the left, the 'Data objects' panel shows a table named 'STUDENTS' with a primary key 'YJC91837'. The main editor area shows the following SQL query:

```
1 INSERT INTO STUDENTS  
2 VALUES(31,'RITHIGA','rithiga@gmail.com','rithi@2'),  
3 (51,'KALAIYARASI','kalaiyarasi@gmail.com','kalai@2'),  
4 (61,'SRIMATHI','srinathi@gmail.com','sri@246'),  
5 (33,'LAVANYA','lavanya@gmail.com','lav@123'),  
6 (37,'RAHUL','rahul@gmail.com','rahul@43'),  
7 (39,'MADHAN','madhan@gmail.com','madhan@20'),  
8 (45,'RAM','ram@gmail.com','ram@209');
```

Below the editor, the 'History' panel shows a table with the following data:

Script	Date	Status	Runtime
Untitled - 1	Oct 10, 2022 6:40:13 PM	✓ 1	0.015 s
INSERT INTO STUDENTS VALUES(31,'RITHIGA','rithiga@gmail.com','rithi@2'),...		✓	0.015 s

The bottom of the screen shows the Windows taskbar with the time 18:40 on 10-10-2022.

IBM Db2 on Cloud

Load Data Load History **Tables** Views Indexes Aliases MQTs Sequences Application objects

YCJ91837.STUDENTS

Back

Export to CSV

ROLL_NO	NAME	EMAIL	PASSWORD
31	RITHIGA	rithiga@gmail.com	rithi@2
33	LAVANYA	lavanya@gmail.com	lav@123
37	RAHUL	rahul@gmail.com	rahul@43
39	MADHAN	madhan@gmail.com	madhan@20
45	RAM	ram@gmail.com	ram@209
51	KALAIYARASI	kalaiyarasi@gmail.com	kalai@2
61	SRIMATHI	srimathi@gmail.com	sri@246

2. Perform UPDATE, DELETE queries with user table.

QUERY :

```
UPDATE STUDENTS
SET NAME='RAKESH'
WHERE ROLL_NO =39;
```

```
DELETE FROM STUDENT
WHERE ROLLNO=45;
```

OUTPUT :

IBM Db2 on Cloud interface showing a SQL script execution. The script is titled "STUDENTS" and contains SQL commands to insert, update, and delete data from the STUDENTS table. The execution history shows the script was run successfully on Oct 10, 2022, at 6:45:25 PM, with a runtime of 0.029 s.

```
1 INSERT INTO STUDENTS
2 VALUES(31,'RITHIGA','rithiga@gmail.com','rithi@2'),
3 (51,'KALAIYARASI','kalaiyarasi@gmail.com','kalai@2'),
4 (61,'SRIMATHI','srimathi@gmail.com','sri@246'),
5 (33,'LAVANYA','lavanya@gmail.com','lav@123'),
6 (37,'RAHUL','rahul@gmail.com','rahul@43'),
7 (39,'MADHAN','madhan@gmail.com','madhan@20'),
8 (45,'RAM','ram@gmail.com','ram@209');
9
10 UPDATE STUDENTS
11 SET NAME='RAKESH'
12 WHERE ROLL_NO =39;
13
14 DELETE FROM STUDENT
15 WHERE ROLLNO=45;
16
```

Script	Date	Status	Runtime
STUDENTS	Oct 10, 2022 6:45:25 PM	2 1	0.029 s
INSERT INTO STUDENTS VALUES(31,'RITHIGA','rithiga@gmail.com','rithi@2')...			0.010 s
UPDATE STUDENTS SET NAME='RAKESH' WHERE ROLL_NO =39			0.007 s

IBM Db2 on Cloud interface showing the results of the SQL script execution. The results are displayed in a table with columns ROLL_NO, NAME, EMAIL, and PASSWORD. The table contains 8 rows of data.

ROLL_NO	NAME	EMAIL	PASSWORD
31	RITHIGA	rithiga@gmail.com	rithi@2
33	LAVANYA	lavanya@gmail.com	lav@123
37	RAHUL	rahul@gmail.com	rahul@43
39	RAKESH	madhan@gmail.com	madhan@20
45	RAM	ram@gmail.com	ram@209
51	KALAIYARASI	kalaiyarasi@gmail.com	kalai@2
61	SRIMATHI	srimathi@gmail.com	sri@246

3. CONNECT PYTHON TO db2:

CODE :

```
import ibm_db

hostname = '9938aec0-8105-433e-8bf9-
0fbb7e483086.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud'

uid = 'qfk33398'

pwd = 'jnfFMaLIMeTZcout'

driver = "{IBM DB2 ODBC DRIVER}"

db = 'bludb'

port = '32459'

protocol = 'TCPIP'

cert = 'CRT1.crt'

dsn = (
"DATABASE = {0};"
"HOSTNAME = {1};"
"PORT = {2};"
"UID = {3};"
"SECURITY = SSL;"
"SSLServerCertificate = {4};"
"PWD = {5};"
).format(db, hostname, port, uid, cert, pwd)

print(dsn)

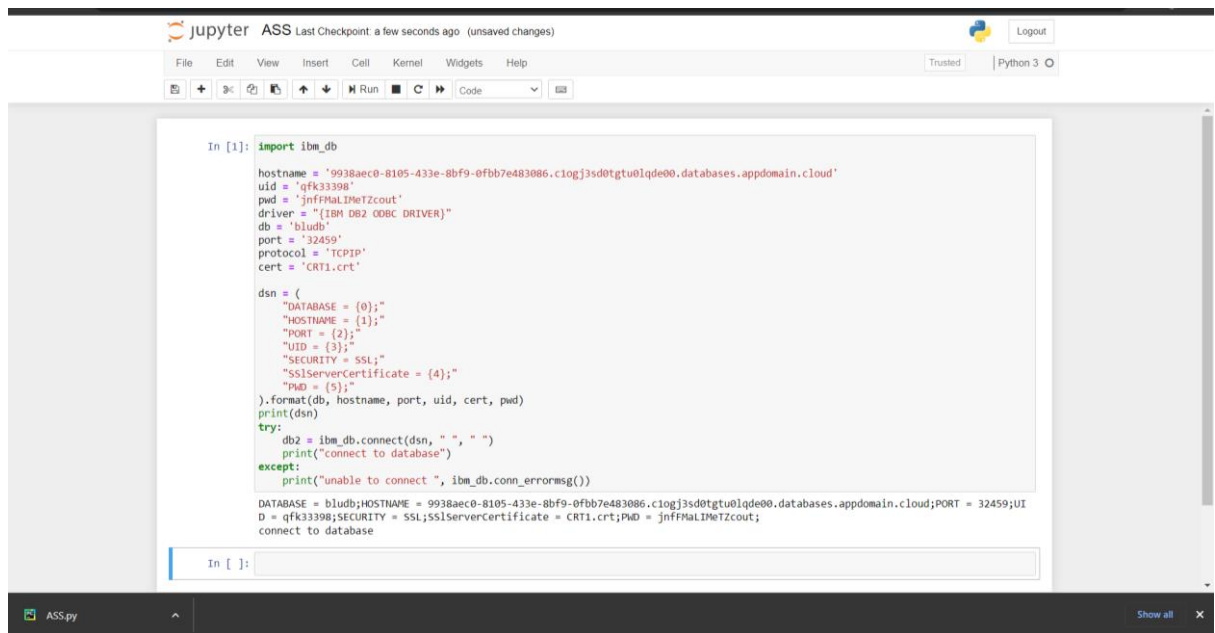
try:

    db2 = ibm_db.connect(dsn, " ", " ")

    print("connect to database")

except:

    print("unable to connect ", ibm_db.conn_errormsg())
```



The image shows a Jupyter Notebook interface with the title "jupyter ASS Last Checkpoint: a few seconds ago (unsaved changes)". The interface includes a menu bar (File, Edit, View, Insert, Cell, Kernel, Widgets, Help) and a toolbar with icons for file operations, running, and code execution. The code cell contains the following Python code:

```
In [1]: import ibm_db

hostname = '9938aec0-8105-433e-8bf9-0fbb7e483086.c1ogj3sd0tgu0lqde00.databases.appdomain.cloud'
uid = 'qfk333398'
pwd = 'jnffMaIMeTZcout'
driver = "{IBM DB2 ODBC DRIVER}"
db = 'bludb'
port = '32459'
protocol = 'TCP/IP'
cert = 'CRT1.crt'

dsn = (
    "DATABASE = {};"
    "HOSTNAME = {};"
    "PORT = {};"
    "UID = {};"
    "SECURITY = SSL;"
    "SSLServerCertificate = {};"
    "PWD = {};"
).format(db, hostname, port, uid, cert, pwd)
print(dsn)
try:
    db2 = ibm_db.connect(dsn, " ", " ")
    print("connect to database")
except:
    print("unable to connect ", ibm_db.conn_errormsg())

DATABASE = bludb;HOSTNAME = 9938aec0-8105-433e-8bf9-0fbb7e483086.c1ogj3sd0tgu0lqde00.databases.appdomain.cloud;PORT = 32459;UID = qfk333398;SECURITY = SSL;SSLServerCertificate = CRT1.crt;PWD = jnffMaIMeTZcout;
connect to database
```

Below the code cell, there is a prompt "In []:" followed by a text input field. The bottom status bar shows "ASS.py" and a "Show all" button.

4. Create a flask app with registration page, logi page and welcome page.

4.about.html

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width,initial-scale=1">
  <title>About Page</title>
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-beta2/dist/css/bootstrap.min.css" rel="stylesheet">
</head>

<body>

  <nav class="navbar navbar-expand-lg bg-light" style="background-color:
#b5dbf7;">
    <!-- Navbar content -->

    <div class="container-fluid">
      <div class="collapse navbar-collapse" id="navbarNavAltMarkup">
        <div class="navbar-nav">
          <a class="nav-link " href="home.html">Home</a>
          <a class="nav-link active" aria-current="page"
href="#">About</a>
          <a class="nav-link" href="signin.html">Sign In</a>
          <a class="nav-link" href="signup.html">Sign up</a>
        </div>
      </div>
    </div>

  </nav>
  <br><br>
  <footer>
    International Business Machines Corporation is an American
    multinational technology corporation headquartered in Armonk, New York, with
    operations in over 171 countries.
  </footer>

</body>

</html>
```

Home.html

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width,initial-scale=1">
  <title>Home Page</title>
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-
beta2/dist/css/bootstrap.min.css" rel="stylesheet">
</head>

<body>

  <nav class="navbar navbar-expand-lg bg-light" style="background-color:
#e3f2fd;">
    <!-- Navbar content -->

    <div class="container-fluid">
      <div class="collapse navbar-collapse" id="navbarNavAltMarkup">
        <div class="navbar-nav">
          <a class="nav-link active" aria-current="page"
href="#">Home</a>
          <a class="nav-link" href="about.html">About</a>
          <a class="nav-link" href="signin.html">SignIn</a>
          <a class="nav-link" href="signup.html">SignUp</a>
        </div>
      </div>
    </div>
  </nav>
  <br><br>
  <div>
    <h4>
      <b>Welcome to IBM!!!</B>
    </h4>
  </div>

</body>

</html>
```

Signin.html

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width,initial-scale=1">
  <title>SignIn</title>
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-beta2/dist/css/bootstrap.min.css" rel="stylesheet">
</head>

<body>

  <nav class="navbar navbar-expand-lg bg-light" style="background-color:
#e3f2fd;">
    <!-- Navbar content -->

    <div class="container-fluid">
      <div class="collapse navbar-collapse" id="navbarNavAltMarkup">
        <div class="navbar-nav">
          <a class="nav-link " href="home.html">Home</a>
          <a class="nav-link" href="about.html">About</a>
          <a class="nav-link active" aria-current="page"
href="#">SignIn</a>
          <a class="nav-link" href="signup.html">SignUp</a>
        </div>
      </div>
    </div>

  </nav>
  <div class="text-center my-5"
    style="background-image:
url('https://png.pngtree.com/thumb_back/fh260/background/20200714/pngtree-
modern-double-color-futuristic-neon-background-image_351866.jpg');
    background-repeat: no-repeat;
    background-size: cover;">

    <section class="h-100">
      <div class="container h-100">
        <div class="row justify-content-sm-center h-100">
          <div class="col-xxl-4 col-xl-5 col-lg-5 col-md-7 col-sm-
9">

            <div class="text-center my-5"></div>
            <div class="card shadow-lg">
              <div class="card-body p-5">
```



```

<h1 class="fs-4 card-title fw-bold mb-
4">Login</h1>
<form method="POST" class="needs-validation"
novalidate="" autocomplete="off">
    <div class="mb-3">
        <label class="mb-2 text-muted"
for="email">E-Mail Address</label>
        <input id="email" type="email"
class="form-control" name="email" value=""
required autofocus>
        <div class="invalid-feedback">
            Email is invalid
        </div>
    </div>

    <div class="mb-3">
        <div class="mb-2 w-100">
            <label class="text-muted"
for="password">Password</label>
            <a href="forgot.html"
class="float-end">
                Forgot Password?
            </a>
        </div>
        <input id="password" type="password"
class="form-control" name="password"
required>
        <div class="invalid-feedback">
            Password is required
        </div>
    </div>

    <div class="d-flex align-items-center">
        <div class="form-check">
            <input type="checkbox"
name="remember" id="remember"
class="form-check-input">
            <label for="remember" class="form-
check-label">Remember Me</label>
        </div>
        <button type="submit" class="btn btn-
primary ms-auto">
            Login
        </button>
    </div>
</form>
</div>
<div class="card-footer py-3 border-0">

```

```
<div class="text-center">  
    Don't have an account? <a  
href="signup.html" class="text-dark">Create  
        One</a>  
    </div>  
</div>  
</div>  
</div>  
</div>  
</div>  
</section>  
</div>  
  
</body>  
  
</html>
```

Signup.html

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width,initial-scale=1">
  <title>SignUp</title>
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-beta2/dist/css/bootstrap.min.css" rel="stylesheet">
</head>

<body>

  <nav class="navbar navbar-expand-lg bg-light" style="background-color:
#e3f2fd;">
    <!-- Navbar content -->

    <div class="container-fluid">
      <div class="collapse navbar-collapse" id="navbarNavAltMarkup">
        <div class="navbar-nav">
          <a class="nav-link " href="home.html">Home</a>
          <a class="nav-link" href="about.html">About</a>
          <a class="nav-link" href="signin.html">SignIn</a>
          <a class="nav-link active" aria-current="page"
href="#">SignUp</a>
        </div>
      </div>
    </div>
  </nav>
  <div class="text-center my-5"
style="background-image:
url('https://png.pngtree.com/thumb_back/fh260/background/20200714/pngtree-
modern-double-color-futuristic-neon-background-image_351866.jpg');
background-repeat: no-repeat;
background-size: cover;">
    <section class="h-100">
      <div class="container h-100">
        <div class="row justify-content-sm-center h-100">
          <div class="col-xxl-4 col-xl-5 col-lg-5 col-md-7 col-sm-
9">

            <div class="text-center my-5"></div>
            <div class="card shadow-lg">
              <div class="card-body p-5">
                <h1 class="fs-4 card-title fw-bold mb-
4">Register</h1>

                <form method="POST" class="needs-validation"
novalidate="" autocomplete="off">
```

```

        <div class="mb-3">
            <label class="mb-2 text-muted"
for="name">Name</label>
            <input id="name" type="text"
class="form-control" name="name" value="" required
autofocus>
            <div class="invalid-feedback">
                Name is required
            </div>
        </div>

        <div class="mb-3">
            <label class="mb-2 text-muted"
for="email">E-Mail Address</label>
            <input id="email" type="email"
class="form-control" name="email" value=""
required>
            <div class="invalid-feedback">
                Email is invalid
            </div>
        </div>

        <div class="mb-3">
            <label class="mb-2 text-muted"
for="password">Password</label>
            <input id="password" type="password"
class="form-control" name="password"
required>
            <div class="invalid-feedback">
                Password is required
            </div>
        </div>

        <p class="form-text text-muted mb-3">
            By registering you agree with our
terms and condition.
        </p>

        <div class="align-items-center d-flex">
            <button type="submit" class="btn btn-
primary ms-auto">
                Register
            </button>
        </div>
    </form>
</div>
<div class="card-footer py-3 border-0">
    <div class="text-center">

```

```

        Already have an account? <a
href="signin.html" class="text-dark">Login</a>
    </div>
</div>
</div>
</div>
</div>
</div>
</section>
</div>

</body>

</html>
```

app.py

```
from flask import Flask, render_template

app = Flask(__name__)

@app.route("/")
@app.route("/home")
def home():
    return render_template("home.html")

@app.route("/about")
def about():
    return render_template("about.html")

@app.route("/signin")
def signin():
    return render_template("signin.html")

@app.route("/signup")
def signup():
    return render_template("signup.html")
```