

Assignment -2

IBM CLOUD DB2

Assignment Date	14 November
Student Name	JANANI J
Student Roll Number	610519104037
Maximum Marks	2 Marks

Questions:

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

The top screenshot shows the IBM Db2 on Cloud interface for the schema 'RVQ09623'. The 'Tables' tab is selected, and the 'USER' table is displayed. The table has four columns: NAME, PHONE, PASSWORD, and CONFIRMPASSWORD. A single row of data is visible with values 'ara', '908089993939', 'ara', and 'ara'. There are buttons for 'Back', 'Export to CSV', and 'Load Data'.

The bottom screenshot shows the 'Tables' list on the left and the 'Table definition' for the 'USER' table on the right. The 'Tables' list shows three tables: REGISTER, STUDENTS, and USER, all in the RVQ09623 schema. The 'Table definition' for 'USER' shows the following columns and data types:

Name	Data type	Nullable	Length	Scale
NAME	VARCHAR	Y	32	0
PHONE	VARCHAR	Y	32	0
PASSWORD	VARCHAR	Y	32	0
CONFIRMPASS WORD	VARCHAR	Y	32	0

There is a 'View data' button at the bottom of the table definition.

2. Perform UPDATE,DELETE Queries with user table.

UPDATE TABLE:-

The screenshot shows the IBM Db2 on Cloud interface. On the left, there's a sidebar with 'Data objects' and 'Saved objects' tabs. The 'Data objects' tab is active, showing a search bar and a list of objects including 'RVQ09623'. The main area is an SQL editor with a tab titled '*Untitled - 1'. The editor contains the following SQL script:

```
1 INSERT INTO USER VALUES('archana', '9999999999', '12345', '12345')
```

Below the editor is a 'History' section with a search bar and a table of execution history.

Script	Date	Status	Runtime
Untitled - 1	Nov 15, 2022 4:09:27 PM	1	0.005 s
INSERT INTO USER VALUES('archana', '9999999999', '12345', '12345')			0.005 s
Untitled - 1	Nov 15, 2022 4:09:19 PM	1	0.013 s
INSERT INTO USER VALUES('archana', '9999999999', '12345', '12345')			0.013 s
Untitled - 1	Nov 15, 2022 4:08:59 PM	1	0.013 s
INSERT INTO USER VALUE('archana', '9999999999', '12345', '12345')			0.013 s
Untitled - 1	Nov 15, 2022 4:08:42 PM	1	0.016 s
INSERT INTO USERTABLE VALUE('archana', '9999999999', '12345', '12345')			0.016 s
Untitled - 1	Nov 15, 2022 4:03:57 PM	1	0.017 s
DELETE FROM user WHERE aii=10			0.017 s

DELETE TABLE:-

The screenshot shows the IBM Db2 on Cloud interface. On the left, there's a sidebar with 'Data objects' and 'Saved objects' tabs. The 'Data objects' tab is active, showing a search bar and a list of objects including 'RVQ09623'. The main area is an SQL editor with a tab titled '*Untitled - 1'. The editor contains the following SQL script:

```
1 DELETE FROM user WHERE aii=10
```

Below the editor is a 'History' section with a search bar and a table of execution history.

Script	Date	Status	Runtime
Untitled - 1	Nov 15, 2022 4:03:57 PM	1	0.017 s
DELETE FROM user WHERE aii=10			0.017 s

3. Connect python code to db2.

NOTE:- Question 4 contains Question 3 answer

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

Answers

App.py

```
File Edit Selection View Go Run Terminal Help
app.py - Visual Studio Code

app.py
D:\> IBM > archa > flask > app.py > @ddrec
1 from turtle import st
2 from flask import Flask, render_template, request, redirect, url_for, session
3 from markupsafe import escape
4
5 import ibm_db
6 conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=0c77d6f2-5da9-48a9-81f8-86b520b87518.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;PORT=31198;SECURITY=SSL;SSLServerCertif
7
8 app = Flask(__name__)
9
10
11
12 @app.route('/')
13 def home():
14     return render_template('register.html')
15
16 @app.route('/signup')
17 def new_student():
18     return render_template('add_student.html')
19
20 @app.route('/addrec', methods = ['POST', 'GET'])
21 def addrec():
22     if request.method == 'POST':
23
24         name = request.form['name']
25         mail = request.form['number']
26         city = request.form['psw']
27         pin = request.form['psw-repeat']
28
29         sql = "SELECT * FROM user WHERE name =?"
30         stmt = ibm_db.prepare(conn, sql)
31         ibm_db.bind_param(stmt, 1, name)
32         ibm_db.execute(stmt)
33         account = ibm_db.fetch_assoc(stmt)
34
35         if account:
36             return render_template('list.html', msg="You are already a member, please login using your details")
37         else:
```

Register.html

```
t. Selection Find View Goto Tools Project Preferences Help
archana.css x home page.html x archana project.html x register.css x view.html x registration.html x registration.css x login.html x
<!DOCTYPE HTML>
<html>
<head>
    <metaname="viewport" content="width=device-width,initial-scale=1">
    <link rel="stylesheet" href="registration.css">
    <title>RegisterPage</title>
</head>
<h1>Registration Form</h1>
<form action="action_page.php">
    <div class="container">
        <label for="name"><b>Username</b></label>
        <input type="text" placeholder="Enter Name" name="name" id="name" required>
        <label for="number"><b>Phone Number</b></label>
        <input type="text" placeholder="Enter Number" name="number" id="number" required>

        <label for="psw"><b>Password</b></label>
        <input type="password" placeholder="Enter Password" name="psw" id="psw" required>

        <label for="psw-repeat"><b>Confirm Password</b></label>
        <input type="password" placeholder="Confirm Password" name="psw-repeat" id="psw-repeat" required>
        <hr>

        <button type="submit" class="registerbtn">Register</button>
    </div>
</form>
</body>
</html>
```

Login.html

```
File Edit Selection View Go Run Terminal Help
login (1).html X
C:\Users\HARIHARAN CS\Downloads> login (1).html > ...
1 <!DOCTYPE HTML>
2 <html>
3 <head>
4 <meta name="viewport" content="width=device-width, initial-scale=1">
5 <link rel="stylesheet" href="registration.css">
6 <title>LoginPage</title>
7 <h1>Login</h1>
8 <form action="action_page.php">
9 <div class="container">
10
11 <label for="number"><b>Phone Number</b></label>
12 <input type="text" placeholder="Enter Number" name="number" id="number" required>
13
14 <label for="psw"><b>Password</b></label>
15 <input type="password" placeholder="Enter Password" name="psw" id="psw" required>
16 <hr>
17
18 <button type="submit" class="registerbtn">Login</button>
19 </div>
20
21 </form>
22 </body>
23 </html>
```

Style.css

```
File Edit Selection View Go Run Terminal Help
Restricted Mode is intended for safe code browsing. Trust this window to enable all features. Manage Learn More
registration.css X
C:\Users\HARIHARAN CS\Downloads> # registration.css > box-shadow
1 * {box-sizing: border-box}
2 .container {
3   max-width: 500px;
4   width: 100%;
5   background-color: #ffff;
6   padding: 50px 20px;
7   border-radius: 5px;
8   box-shadow: 0 15px 10px rgba(0,0,0,0.15);
9 }
10 input[type=text], input[type=password] {
11   width: 100%;
12   padding: 15px;
13   margin: 5px 0 22px 0;
14   display: inline-block;
15   border: none;
16   background: #f1f1f1;
17 }
18 body {
19   font-family: Verdana;
20   height: 100vh;
21   display: flex;
22   justify-content: center;
23   align-items: center;
24   padding: 30px;
25   background: #B7CEEB;
26 }
27
28
29
30 input[type=text]:focus, input[type=password]:focus {
31   background-color: #add8e6;
32   outline: none;
33 }
34
35 hr {
36   border: 1px solid #f1f1f1;
37 }
```

Home Page .html

