

Assignment -2

IBM CLOUD DB2

Assignment Date	14 November
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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 with the 'RVQ09623.USER' table selected. The table has four columns: NAME, PHONE, PASSWORD, and CONFIRMPASSWORD. The data row shows 'ara' for NAME, '908089993939' for PHONE, 'ara' for PASSWORD, and 'ara' for CONFIRMPASSWORD. There is an 'Export to CSV' button and a 'Back' button.

The bottom screenshot shows the IBM Db2 on Cloud interface with the 'Tables' list and the 'Table definition' for the 'USER' table. The 'Tables' list shows three tables: REGISTER, STUDENTS, and USER, all in the RVQ09623 schema. The 'Table definition' for the 'USER' table 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 script named 'Untitled - 1'. The script contains the following SQL statement:

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

Below the editor is a 'History' table with the following columns: Script, Date, Status, and Runtime. The table contains several rows 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 ari=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 script named 'Untitled - 1'. The script contains the following SQL statement:

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

Below the editor is a 'History' table with the following columns: Script, Date, Status, and Runtime. The table contains several rows of execution history:

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

D:\> IBM > archa > flask > app.py > addrec
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
17 <hr>
18
19 <button type="submit" class="registerbtn">Login</button>
20
21 </div>
22
23 </form>
24 </body>
25 </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;
```

Home Page .html

