

## 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 console interface. The 'Tables' tab is selected, and the table 'RVQ09623.USER' 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' and 'Export to CSV'.

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 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 panel.

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'. The main area has a tab labeled '\*Untitled - 1' with an SQL editor containing the following script:

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

Below the editor is a 'History' section with a table listing previous script executions:

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 att=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'. The main area has a tab labeled '\*Untitled - 1' with an SQL editor containing the following script:

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

Below the editor is a 'History' section with a table listing previous script executions:

Script	Date	Status	Runtime
Untitled - 1	Nov 15, 2022 4:03:57 PM	1	0.017 s
DELETE FROM user WHERE att=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=ec27d6f2-5da9-48a9-81fe-8eb520b87518.bs2j0wlo8kqh1odlbg.databases.appdomain.cloud;PORT=33198;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         name = request.form['name']
24         mail = request.form['number']
25         city = request.form['psw']
26         pin = request.form['psw-repeat']
27
28         sql = "SELECT * FROM user WHERE name =?"
29         stmt = ibm_db.prepare(conn, sql)
30         ibm_db.bind_param(stmt,1,name)
31         ibm_db.execute(stmt)
32         account = ibm_db.fetch_assoc(stmt)
33
34         if account:
35             return render_template('list.html', msg="You are already a member, please login using your details")
36         else:
37             return render_template('list.html', msg="You are already a member, please login using your details")
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## Login.html

```
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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 </head>
8 <body>
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   </div>
18
19   <button type="submit" class="registerbtn">Login</button>
20 </div>
21
22 </body>
23 </html>
```

## Style.css

```
File Edit Selection View Go Run Terminal Help
Restricted Mode is intended for safe browsing. Trust this window to enable all features. Manage Learn More
# registration.css
C:\Users\HARIHARAN CS\Downloads> # registration.css
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: #BFC8EB;
26 }
27
28
29
30 input[type="text"]:focus, input[type="password"]:focus {
31   background-color: #ddd;
32   outline: none;
33 }
34
35 hr {
36   border: 1px solid #f1f1f1;
```

## Home Page .html

