

Assignment -2

Assignment Date	15 September 2022
Student Name	Mr. Ajith Tony A
Student Roll Number	917719C121
Maximum Marks	2 Marks

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

The screenshot shows the IBM Db2 on Cloud web interface. On the left, there's a sidebar with 'Data objects' and 'Saved objects' tabs. The 'Data objects' tab is active, showing a tree view with 'GPZ48320' and sub-items: 'Tables', 'Views', 'MQTs', 'Aliases', and 'Nicknames'. The main area displays a SQL editor with a script titled '*Untitled - 1'. The script contains the following SQL code:

```
1 CREATE TABLE USERS(  
2   userid INTEGER GENERATED ALWAYS AS IDENTITY (START WITH 1 INCREMENT BY 1),  
3   email VARCHAR(30) NOT NULL,  
4   username VARCHAR(20) NOT NULL,  
5   rollno VARCHAR(10) NOT NULL,  
6   password VARCHAR(30) NOT NULL,  
7   PRIMARY KEY(userid)  
8 );
```

Below the editor, there's a 'History' tab showing a table of executed scripts. The table has columns: 'Script', 'Date', 'Status', and 'Runtime'. The first entry is for the 'CREATE TABLE USERS' script, executed on Nov 14, 2022, at 9:36:39 PM, with a status of '1' and a runtime of 0.160 s.

Script	Date	Status	Runtime
Untitled - 1	Nov 14, 2022 9:36:39 PM	1	0.160 s
CREATE TABLE USERS(userid INTEGER GENERATED ALWAYS AS IDENTITY (START WITH 1 INCREMENT BY 1), email...		1	0.160 s

2. Perform UPDATE,DELETE Queries with user table

The screenshot shows the IBM Db2 on Cloud web interface with the SQL editor containing the following queries:

```
1 UPDATE USERS  
2 SET USERNAME='ajithtony'  
3 WHERE USERID=1;
```

Below the editor, the 'History' tab is active, showing a table of executed scripts. The table has columns: 'Script', 'Date', 'Status', and 'Runtime'. The first entry is for the 'UPDATE USERS' script, executed on Nov 14, 2022, at 10:00:15 PM, with a status of '1' and a runtime of 0.006 s.

Script	Date	Status	Runtime
Untitled - 1	Nov 14, 2022 10:00:15 PM	1	0.006 s
UPDATE USERS SET USERNAME='ajithtony' WHERE USERID=1		1	0.006 s
Untitled - 1	Nov 14, 2022 9:56:50 PM	1	0.008 s
INSERT INTO USERS(EMAIL, USERNAME, ROLLNO, PASSWORD) VALUES('ajithtony@gmail.com','ajith123','19C12...		1	0.008 s
Untitled - 1	Nov 14, 2022 9:56:00 PM	1	0.015 s
INSERT INTO USERS(EMAIL, USERNAME, ROLLNO, PASSWORD) VALUES('ajithtony@gmail.com','ajith123','19C12...		1	0.015 s
Untitled - 1	Nov 14, 2022 9:54:04 PM	1	0.015 s
INSERT INTO USERS(EMAIL, USERNAME, ROLLNO, PASSWORD) VALUES('ajithtony@gmail.com','ajith123','19...		1	0.015 s
Untitled - 1	Nov 14, 2022 9:52:53 PM	1	0.015 s
insert into USERS(email, username, rollno, password) values('ajithtony@student.tce.edu', 'ajith123...		1	0.015 s

The screenshot shows the IBM Db2 on Cloud web interface. On the left, there's a sidebar with 'Data objects' and 'Saved objects'. The main area displays a SQL script in a text editor with the following content:

```

1 DELETE FROM USERS
2 WHERE USERID=1;

```

Below the editor, the 'History' tab is active, showing a table of executed scripts:

Script	Date	Status	Runtime
Untitled - 1	Nov 14, 2022 10:08:02 PM	✓ 1	0.005 s
DELETE FROM USERS WHERE USERID=1		✓	0.005 s
Untitled - 1	Nov 14, 2022 10:00:15 PM	✓ 1	0.006 s
UPDATE USERS SET USERNAME='ajithtony' WHERE USERID=1		✓	0.006 s
Untitled - 1	Nov 14, 2022 9:56:50 PM	✓ 1	0.008 s
INSERT INTO USERS(EMAIL, USERNAME, ROLLNO, PASSWORD) VALUES('ajithtony@gmail.com', 'ajith123', '19C12..		✓	0.008 s
Untitled - 1	Nov 14, 2022 9:56:00 PM	✗ 1	0.015 s
INSERT INTO USERS(EMAIL, USERNAME, ROLLNO, PASSWORD) VALUES('ajithtony@gmail.com', 'ajith123', '19C12..		✗	0.015 s
Untitled - 1	Nov 14, 2022 9:54:04 PM	✗ 1	0.015 s
INSERT INTO USERS(EMAIL, USERNAME, ROLLNO, PASSWORD) VALUES('ajithtony@gmail.com', 'ajith123', '19..		✗	0.015 s

3. Connect python code to db2.

The screenshot shows a Python Flask application code in a text editor. The code is as follows:

```

1 from flask import Flask, render_template, url_for, redirect
2 import ibm_db
3
4 app = Flask(__name__)
5
6 @app.route("/")
7 def get_db():
8     conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=6667d8e9-9d4d-4ccb-ba32-21da3bb5aafc.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT
9     return render_template("index.html")
10 if __name__ == "__main__":
11     app.run(debug=True)

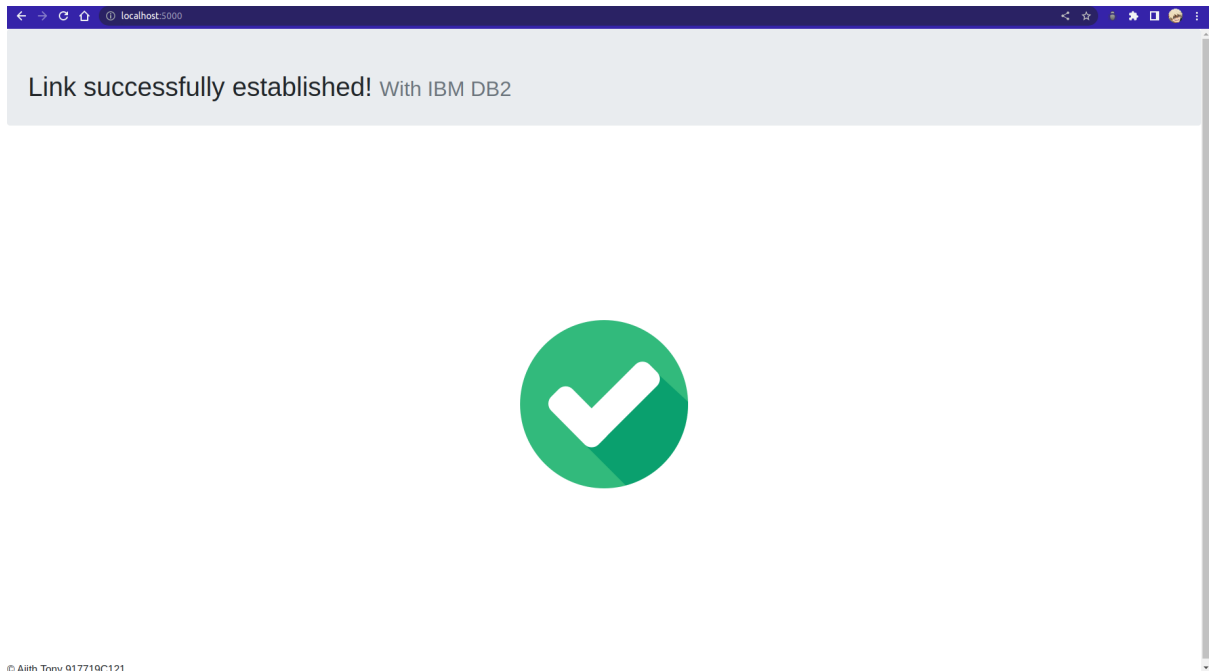
```

Below the code, the terminal output shows the application running on 127.0.0.1. The output includes several GET requests and responses, followed by a message indicating a detected change in the code and a restart of the application.

```

127.0.0.1 - - [15/Nov/2022 00:34:15] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [15/Nov/2022 00:34:15] "GET /static/style.css HTTP/1.1" 200 -
127.0.0.1 - - [15/Nov/2022 00:34:53] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [15/Nov/2022 00:34:53] "GET /static/style.css HTTP/1.1" 200 -
127.0.0.1 - - [15/Nov/2022 00:37:41] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [15/Nov/2022 00:37:41] "GET /static/style.css HTTP/1.1" 200 -
127.0.0.1 - - [15/Nov/2022 00:38:18] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [15/Nov/2022 00:38:18] "GET /static/style.css HTTP/1.1" 200 -
127.0.0.1 - - [15/Nov/2022 00:38:39] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [15/Nov/2022 00:38:39] "GET /static/style.css HTTP/1.1" 200 -
* Detected change in '/home/tony/Programming/IBM-Project/Assessments/M4 Lead (Ajith Tony A) Assignments/Assignment 2/Code/app.py', reloading
* Restarting with stat
* Debugger is active!
* Debugger PIN: 959-337-847

```



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

