

Assignment 2

Team ID	PNT2022TMID14112
Project Name	Plasma Donor Application

Question:

1. Create User table with user with email, username, roll number, password.
 2. Perform UPDATE, DELETE Queries with user table
 3. Connect python code to db2.
 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.
1. Create User table with user with email, username, roll number, password.

Solution:

```
CREATE TABLE USER(  
  USER_ID INT GENERATED BY DEFAULT AS IDENTITY NOT  
    NULL,  
  EMAIL_ID VARCHAR(150) NOT NULL,  
  USER_NAME VARCHAR(255) NOT NULL,  
  ROLL_NUMBER VARCHAR(100) NOT NULL,  
  PASSWORD VARCHAR(100) NOT NULL,  
  PRIMARY KEY (USER_ID)  
);  
INSERT INTO USER(EMAIL_ID,  
  USER_NAME,ROLL_NUMBER,PASSWORD)  
VALUES('ex1@gmail.com','Example10','CS123','9944690406');  
  
INSERT INTO USER(EMAIL_ID,  
  USER_NAME,ROLL_NUMBER,PASSWORD)  
VALUES('ex2@gmail.com','Example11','CS124','7339125450');
```

The screenshot shows the IBM Db2 on Cloud Run SQL interface. The SQL editor contains the query: `SELECT * From User;`. The results pane on the right displays the output of the query, showing two rows of data from the 'User' table.

USER_ID	EMAIL_ID	USER_NAME	ROLL_NUMBER	PASSWOR
33	ex1@gmail.com	Example10	CS123	9944690
34	ex2@gmail.com	Example11	CS124	7339125

2.Perform UPDATE, DELETE Queries with user table.

Solution:

UPDATE:

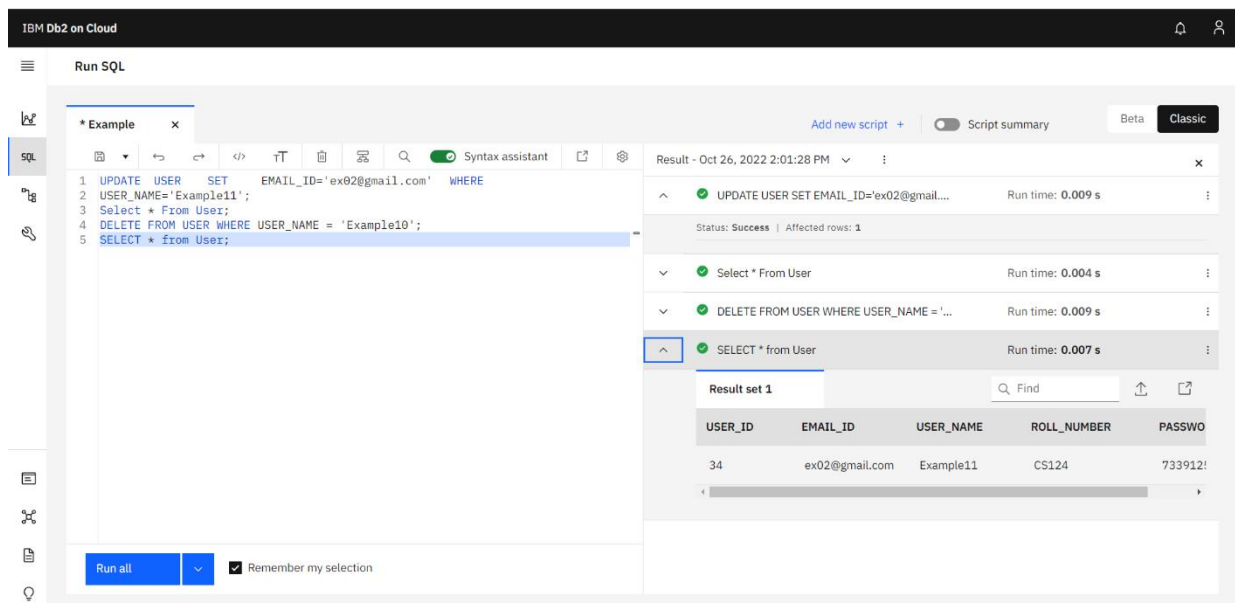
`UPDATE USER SET EMAIL_ID='ex02@gmail.com' WHERE USER_NAME='Example11';`

The screenshot shows the IBM Db2 on Cloud Run SQL interface. The SQL editor contains the following queries: `UPDATE USER SET EMAIL_ID='ex02@gmail.com' WHERE USER_NAME='Example11';` and `Select * From User;`. The results pane on the right displays the output of the UPDATE query, showing the status 'Success' and 'Affected rows: 1'. Below this, the results of the SELECT query are shown, displaying two rows of data from the 'User' table.

USER_ID	EMAIL_ID	USER_NAME	ROLL_NUMBER	PASSWO
33	ex1@gmail.com	Example10	CS123	9944690
34	ex02@gmail.com	Example11	CS124	7339125

DELETE:

`DELETE FROM USER WHERE USER_NAME = 'Example10';`



3. Connect python code to db2.

Solution:

```
def Connection():
    try:
        conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=1bbf73c5-d84a-4bb0-85b9-ab1a4348f4a4.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=32286;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=xjk42376;PWD=liEWs4fS57ABi3h1", "", "")
        print ("Database Connected Successfully !")
    except:
        print ("Unable to connect: ", ibm_db.conn_errormsg())
```

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.

```

def Create(email,name,phone,password,conn):

    columns = '"UNAME","UEMAIL","UPHONE","UPASSWORD"'
    val = ""'+name+'","'+email+'","'+phone+'","'+password+'"'
    sql = 'Insert into XJK42376.USER(' + columns + ') values('+val+')'
    try:
        stmt = ibm_db.prepare(conn, sql)
        ibm_db.execute(stmt)
        print ("added :-)")
        return 1
    except:
        print("Error While Adding the User ! ")
        return 0

def Signin(email,password,conn):

    sql = "SELECT * FROM XJK42376.USER"
    try:
        result = ibm_db.exec_immediate(conn,sql)
        tuple = ibm_db.fetch_tuple(result)
        while tuple != False:
            if str(tuple[1]) == email and str(tuple[3]) == password:
                res = [str(tuple[0]),str(tuple[1]),str(tuple[2])]
                return res
            tuple = ibm_db.fetch_tuple(result)
        print("Fetch Success :-)")
        return 0
    except:
        print("fetch not found !")
        return 0

```

Output:

Signup Page:

Sign Up

SIGN UP

Already Have an Account ! [Login](#)

Login Page:

Sign In

SIGN IN

Don't Have an Account ! [Sign Up](#)

When Email or password is Invalid:

Sign In

Invalid Email or Password

Email

Password

SIGN IN

Don't Have an Account ! [Sign Up](#)

Table:

XJK42376.USER				Back
				<div><div></div>Export to CSV</div>
UNAME	UEMAIL	UPHONE	UPASSWORD	
Rajeshkumar	rk9166771@gmail.com	9787234640	123456789	
Ramachandramoorthy K B	ramchandramoorthykb@gmail.com	1029384756	123456	
Ramya s	ramya@gmail.com	123456788	1234567890	
Umapathi K	umapathik@gmail.com	8765432211	1234567890	

Home Page:

DashBoard

Welcome Rajeshkumar !