Assignment 2

Team ID	PNT2022TMID14121
Project Name	Inventory Management System for Retailers

Question:

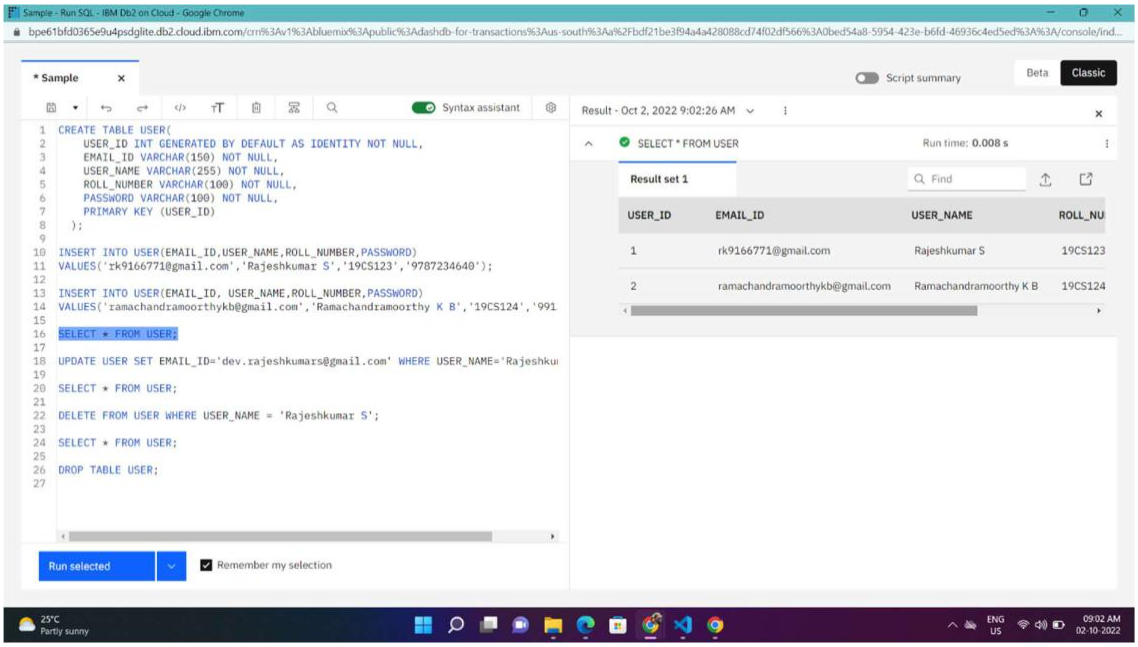
1. **Create a User table with a user with email, username, roll number, password.**
2. **Perform UPDATE, DELETE Queries with user table**
3. **Connect python code to db2.**
4. **Create a flask app with registration page, login page and welcome page. By default, load the registration page once the user enters all the fields, store the data in the database and navigate to the login page to 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('rk9166771@gmail.com','Rajeshkumar

S','19CS123','9787234640');

INSERT INTO USER(EMAIL_ID,
```

USER_NAME,ROLL_NUMBER,PASSWORD)
VALUES('ramachandramoorthykb@gmail.com','Ramachandramoorthy
K B','19CS124','9912346578')

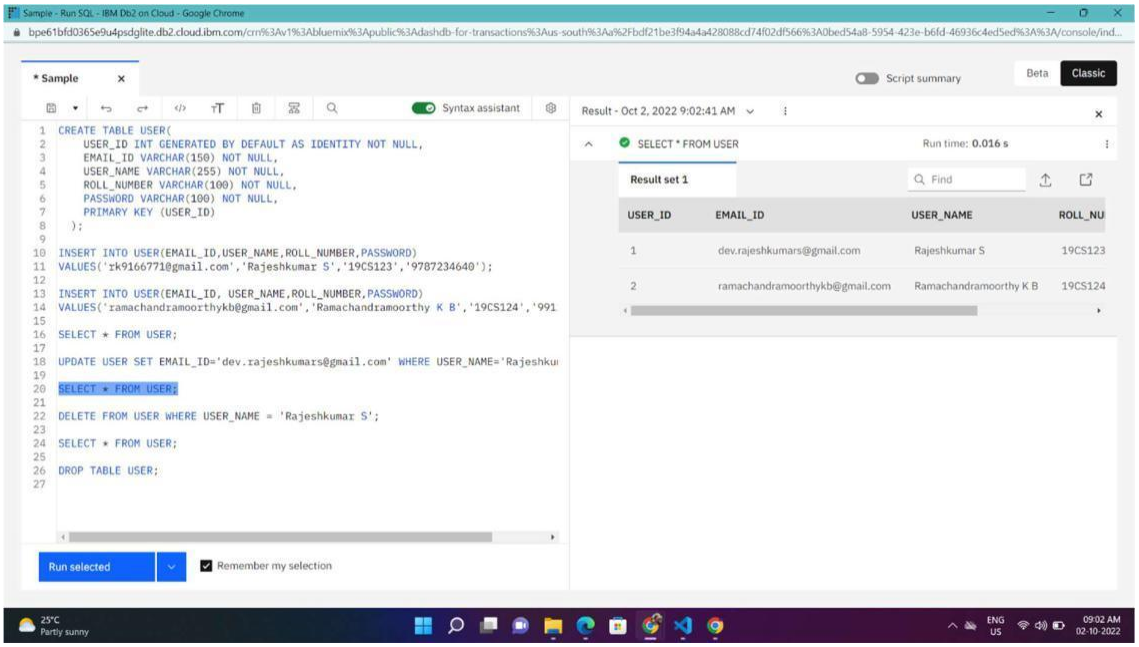


2.Perform UPDATE, DELETE Queries with user table.

Solution:

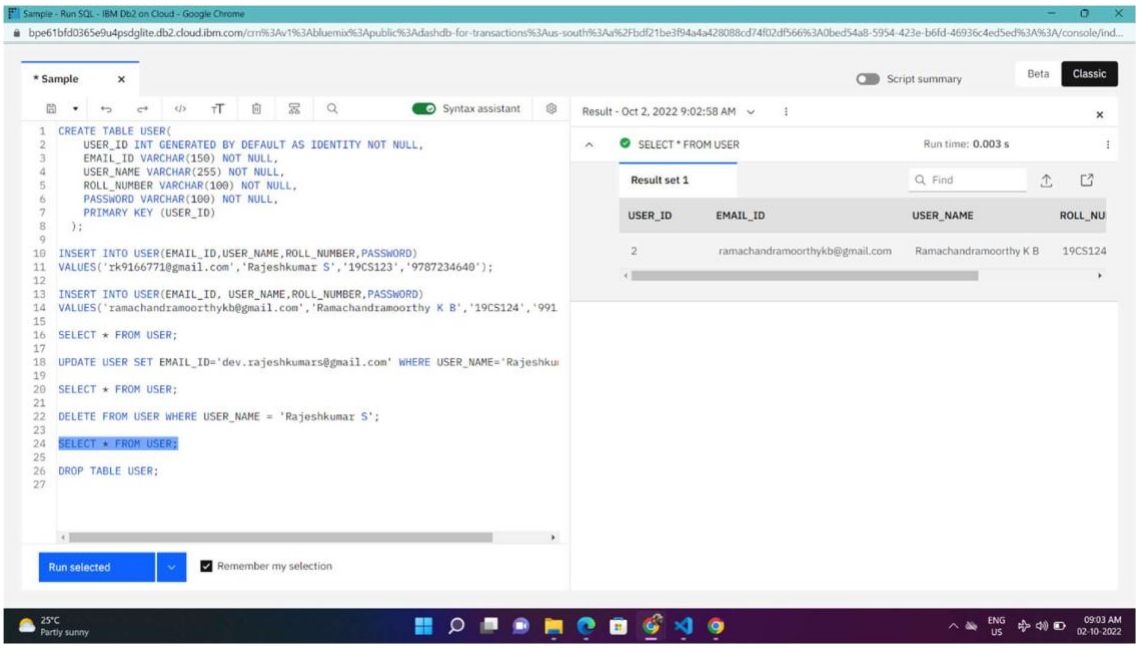
UPDATE:

```
UPDATE USER SET EMAIL_ID='dev.rajeshkumars@gmail.com' WHERE
USER_NAME='Rajeshkumar S';
```



DELETE:

```
DELETE FROM USER WHERE USER_NAME = 'Rajeshkumar S';
```



3. Connect python

code to db2. Solution:

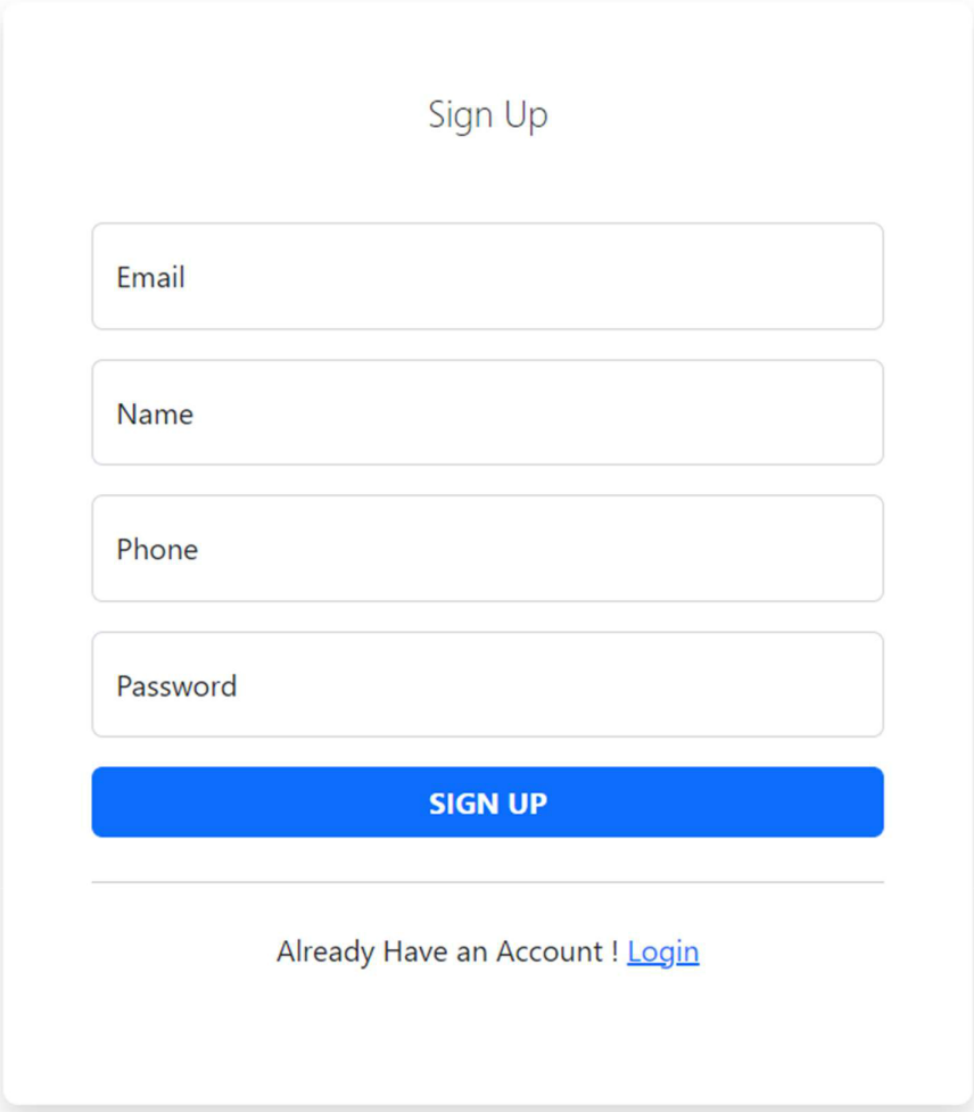
```
def Connection():
    try:
        conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=21fecfd8-47b7-
4937-840d-
d791d0218660.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;PORT=31864;SE
CURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=xjk42376;PW
D=liEWs4fS57ABi3h1", "", "")
        print ("Database Connected Successfully !")
        return conn
    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 the database and navigate to the login page to authenticate user username and password. If the user is valid, show the welcome page.

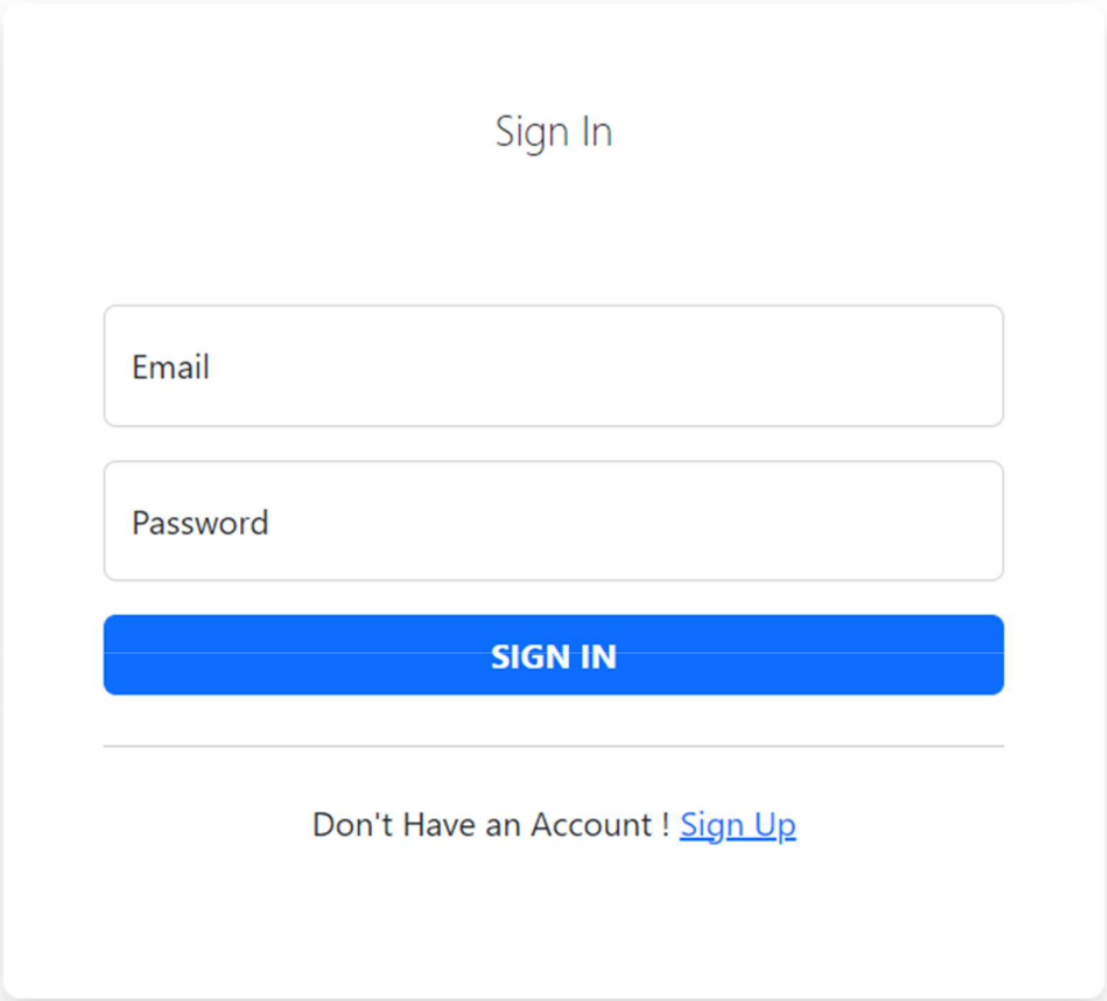
```
def Create(email,name,phone,password,conn):

    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

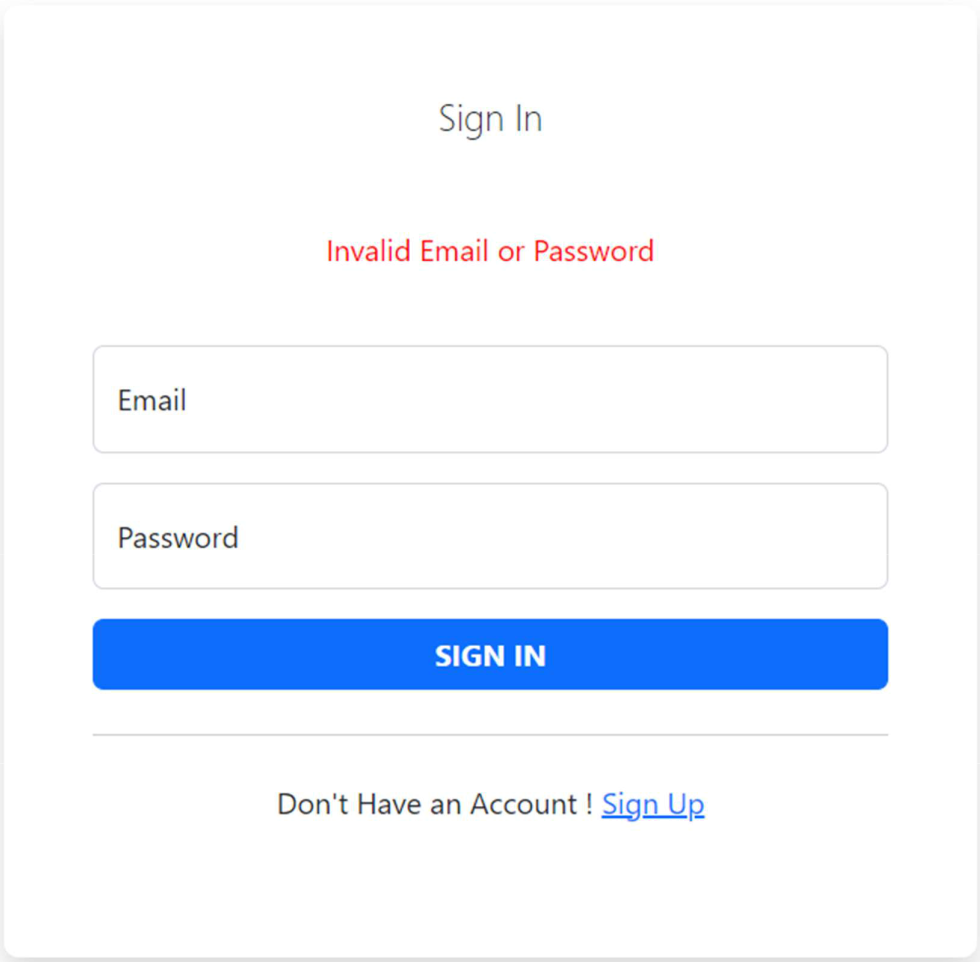
Signup Page:



Login Page:



When Email or password is Invalid:



Table

XJK42376.USER

Back

Export to CSV

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