

## 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')

Sample - Run SQL - IBM Db2 on Cloud - Google Chrome

bpe61b1fd0365e9u4psdglite.db2.cloud.ibm.com/cm%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2Fbd21be3f94a4a28088cd74f02d566%3A0bed54a8-5954-423e-b6fd-46936c4ed5ed%3A/console/ind...

\* Sample x

Syntax assistant

Result - Oct 2, 2022 9:02:26 AM

Script summary Beta Classic

```
1 CREATE TABLE USER(  
2   USER_ID INT GENERATED BY DEFAULT AS IDENTITY NOT NULL,  
3   EMAIL_ID VARCHAR(150) NOT NULL,  
4   USER_NAME VARCHAR(255) NOT NULL,  
5   ROLL_NUMBER VARCHAR(100) NOT NULL,  
6   PASSWORD VARCHAR(100) NOT NULL,  
7   PRIMARY KEY (USER_ID)  
8 );  
9  
10 INSERT INTO USER(EMAIL_ID,USER_NAME,ROLL_NUMBER,PASSWORD)  
11 VALUES('rk9166771@gmail.com','Rajeshkumar S','19CS123','9787234640');  
12  
13 INSERT INTO USER(EMAIL_ID, USER_NAME,ROLL_NUMBER,PASSWORD)  
14 VALUES('ramachandramoorthykb@gmail.com','Ramachandramoorthy K B','19CS124','991  
15  
16 SELECT * FROM USER;  
17  
18 UPDATE USER SET EMAIL_ID='dev.rajeshkumars@gmail.com' WHERE USER_NAME='Rajeshkumar S';  
19  
20 SELECT * FROM USER;  
21  
22 DELETE FROM USER WHERE USER_NAME = 'Rajeshkumar S';  
23  
24 SELECT * FROM USER;  
25  
26 DROP TABLE USER;  
27
```

Run selected Remember my selection

Result set 1

USER_ID	EMAIL_ID	USER_NAME	ROLL_NO
1	rk9166771@gmail.com	Rajeshkumar S	19CS123
2	ramachandramoorthykb@gmail.com	Ramachandramoorthy K B	19CS124

25°C Partly sunny

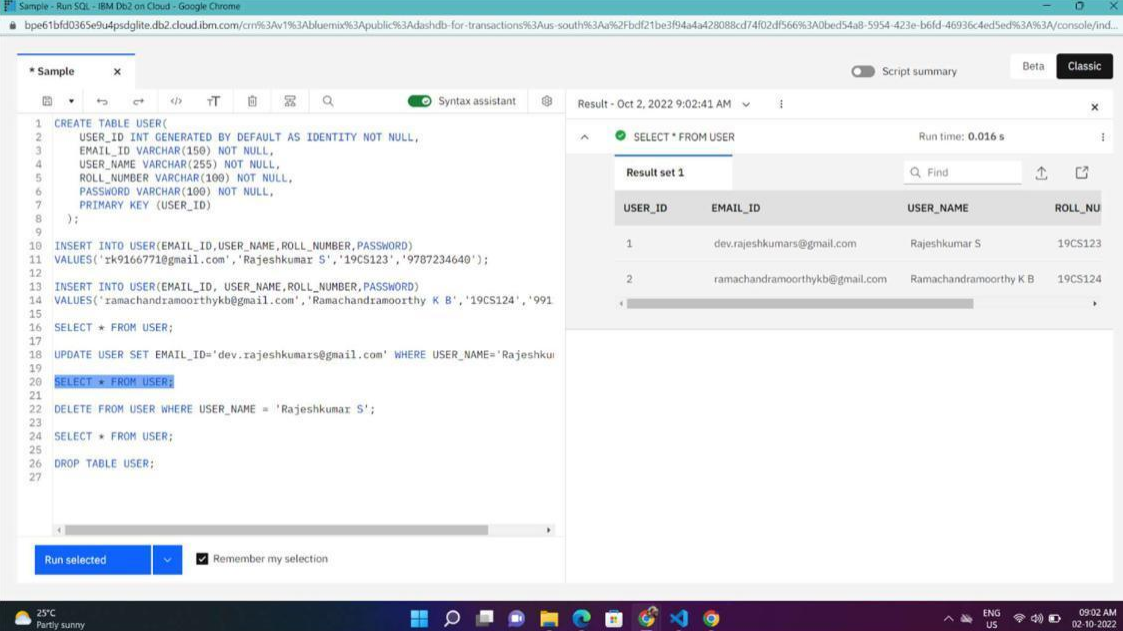
09:02 AM 02-10-2022

## 2.Perform UPDATE, DELETE Queries with user table.

**Solution:**

**UPDATE:**

**UPDATE USER SET EMAIL\_ID='dev.rajeshkumars@gmail.com' WHERE USER\_NAME='Rajeshkumar S';**



The screenshot shows a Google Cloud SQL console interface. The left pane displays a series of SQL queries executed on a database. The right pane shows the results of the last query, 'SELECT \* FROM USER', which returned two rows of user data.

```
1 CREATE TABLE USER(  
2   USER_ID INT GENERATED BY DEFAULT AS IDENTITY NOT NULL,  
3   EMAIL_ID VARCHAR(150) NOT NULL,  
4   USER_NAME VARCHAR(255) NOT NULL,  
5   ROLL_NUMBER VARCHAR(100) NOT NULL,  
6   PASSWORD VARCHAR(100) NOT NULL,  
7   PRIMARY KEY (USER_ID)  
8 );  
9  
10 INSERT INTO USER(EMAIL_ID,USER_NAME,ROLL_NUMBER,PASSWORD)  
11 VALUES('sk9166771@gmail.com','Rajeshkumar S','19CS123','9787234640');  
12  
13 INSERT INTO USER(EMAIL_ID, USER_NAME,ROLL_NUMBER,PASSWORD)  
14 VALUES('ramachandramoorthykb@gmail.com','Ramachandramoorthy K B','19CS124','991  
15  
16 SELECT * FROM USER;  
17  
18 UPDATE USER SET EMAIL_ID='dev.rajeshkumars@gmail.com' WHERE USER_NAME='Rajeshkumar S';  
19  
20 SELECT * FROM USER;  
21  
22 DELETE FROM USER WHERE USER_NAME = 'Rajeshkumar S';  
23  
24 SELECT * FROM USER;  
25  
26 DROP TABLE USER;  
27
```

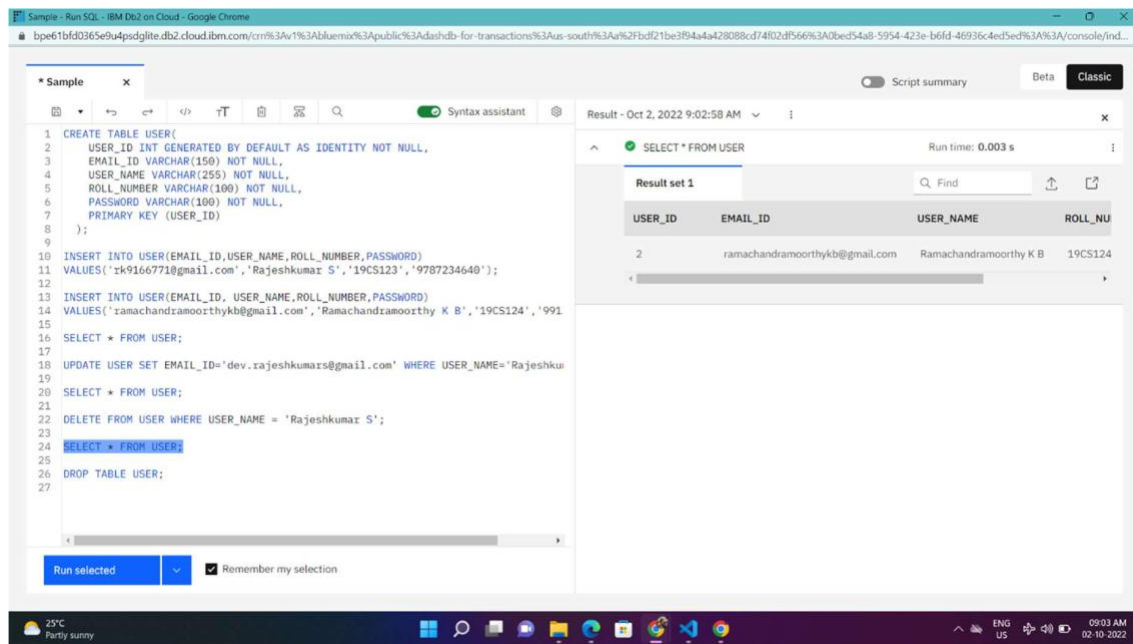
Result - Oct 2, 2022 9:02:41 AM

Run time: 0.016 s

USER_ID	EMAIL_ID	USER_NAME	ROLL_NO
1	dev.rajeshkumars@gmail.com	Rajeshkumar S	19CS123
2	ramachandramoorthykb@gmail.com	Ramachandramoorthy K B	19CS124

**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;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=xjk42376;PWD=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:

Sign Up

Email

Name

Phone

Password

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

**SIGN IN**

---

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



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

DashBoard

Welcome Rajeshkumar !

