

Assignment-2

Date	19 September 2022
Student Name	Shivaani.R
Student Rollno	813819104092
Marks	2

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

The screenshot shows the IBM Db2 on Cloud SQL editor interface. The top navigation bar includes 'Load Data', 'Load History', 'Tables', 'Views', 'Indexes', 'Aliases', 'MQTs', 'Sequences', and 'Application objects'. The main area is titled 'Generate SQL' and contains a SQL script for creating a table named 'USER' in the 'DXT74078' database. The script is as follows:

```
1 INSERT
2 INTO "DXT74078"."USER" ("ROLLNO", "USERNAME", "EMAIL", "PASSWORD")
3 VALUES(
4 '104', --ROLLNO VARCHAR(32)
5 'Nakul', --USERNAME VARCHAR(32)
6 'nakul@gmail.com', --EMAIL VARCHAR(32)
7 '976nak' --PASSWORD VARCHAR(32)
8 )
```

Below the script, there is a 'History' section with a table showing the execution status:

Script	Date	Status	Runtime
Untitled - 1	Sep 29, 2022 7:32:21 PM	✓ 1	0.008 s

The screenshot shows the IBM Db2 on Cloud SQL editor interface displaying the contents of the 'DXT74078.USER' table. The table has four columns: 'ROLLNO', 'USERNAME', 'EMAIL', and 'PASSWORD'. The data is as follows:

ROLLNO	USERNAME	EMAIL	PASSWORD
102	Ayisha	ayisha@gmail.com	aisha0908
103	Ajay	ajay@gmail.com	ajay96
104	Nakul	nakul@gmail.com	976nak
106	dharshini	dharshini@gmail.com	dharshu24
109	Rohan	rohan@gmail.com	rohan09

2. Perform Update and delete queries with user table:

Update:

The screenshot shows the IBM Db2 on Cloud SQL editor interface. The top navigation bar includes 'Load Data', 'Load History', 'Tables', 'Views', 'Indexes', 'Aliases', 'MQTs', 'Sequences', and 'Application objects'. The left sidebar has icons for 'SQL' and 'Tables'. The main area is titled 'Generate SQL' and contains a code editor with the following SQL query:

```
1 UPDATE "DXT74078"."USER"  
2 SET  
3 "EMAIL" = 'ayisha09@gmail.com'  
4 WHERE "ROLLNO" = '102';  
5
```

Below the code editor is a 'History' section with a search bar and a table of execution history:

Script	Date	Status	Runtime
Untitled - 1	Oct 1, 2022 11:39:19 AM	✓ 1	0.010 s
UPDATE "DXT74078"."USER" SET "EMAIL" = 'ayisha09@gmail.com' WHERE "ROLLNO" = '102'		✓	0.010 s

The screenshot shows the IBM Db2 on Cloud interface displaying the data for the 'DXT74078.USER' table. The table has four columns: 'ROLLNO', 'USERNAME', 'EMAIL', and 'PASSWORD'. The data is as follows:

ROLLNO	USERNAME	EMAIL	PASSWORD
102	Ayisha	ayisha09@gmail.com	aisha0908
103	Ajay	ajay@gmail.com	ajay96
104	Nakul	nakul@gmail.com	976nak
106	dharshini	dharshini@gmail.com	dharshu24
109	Rohan	rohan@gmail.com	rohan09

Delete:

IBM Db2 on Cloud

Load Data Load History **Tables** Views Indexes Aliases MQTs Sequences Application objects

Generate SQL

Back

*Untitled - 1 x +

Syntax assistant Run all

```

1 DELETE FROM "DXT74078"."USER"
2 --Search condition (e.g. WHERE "ROLLNO" = NULL)
3 WHERE "ROLLNO" = '109';
4

```

History

Find history

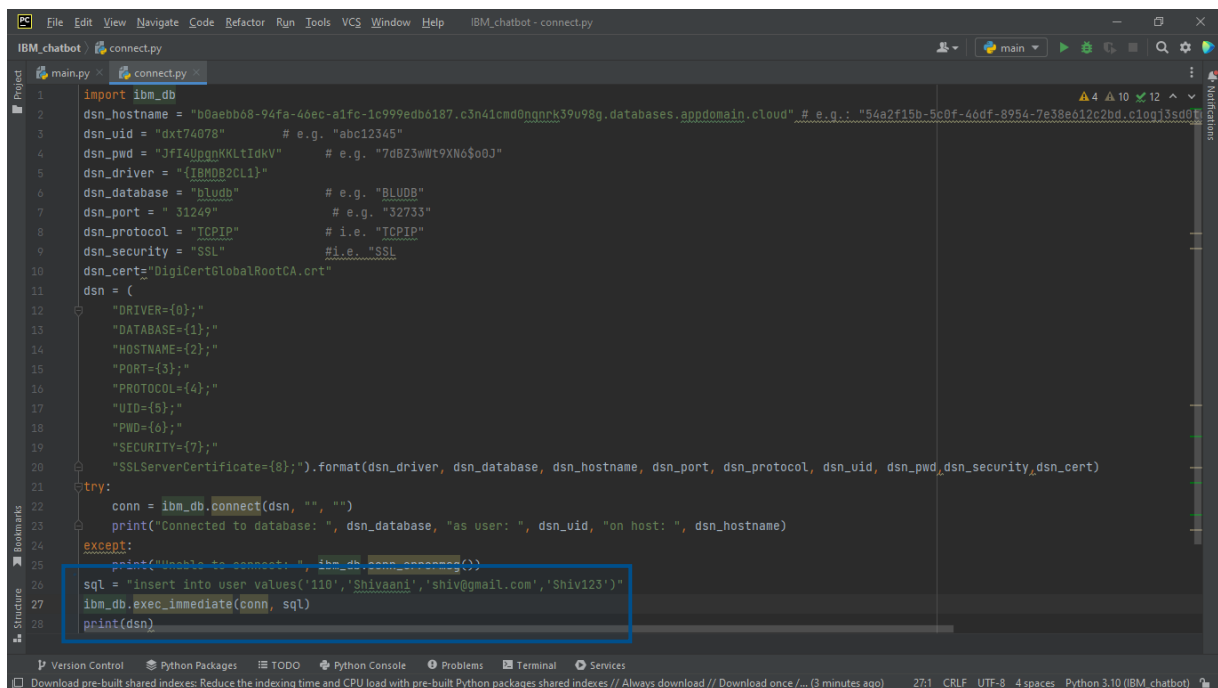
Script	Date	Status	Runtime
^ Untitled - 1	Oct 1, 2022 12:12:53 PM	✓ 1	0.017 s
DELETE FROM "DXT74078"."USER" --Search condition (e.g. WHERE "ROLLNO" = NULL) WHERE "RO...		✓	0.017 s

The screenshot shows the IBM Db2 Cloud console interface. At the top, there's a navigation bar with "IBM Db2 on Cloud" and user icons. Below it, a menu lists various database objects: Load Data, Load History, **Tables**, Views, Indexes, Aliases, MQTs, Sequences, and Application objects. The main area displays the details for the "DXT74078.USER" table. A sidebar on the left contains icons for different views: SQL, Diagrams (selected), and Relationships. In the table details view, there's a "Back" button and an "Export to CSV" button with a download icon. The table itself has four columns: ROLLNO, USERNAME, EMAIL, and PASSWORD. It contains five rows of data.

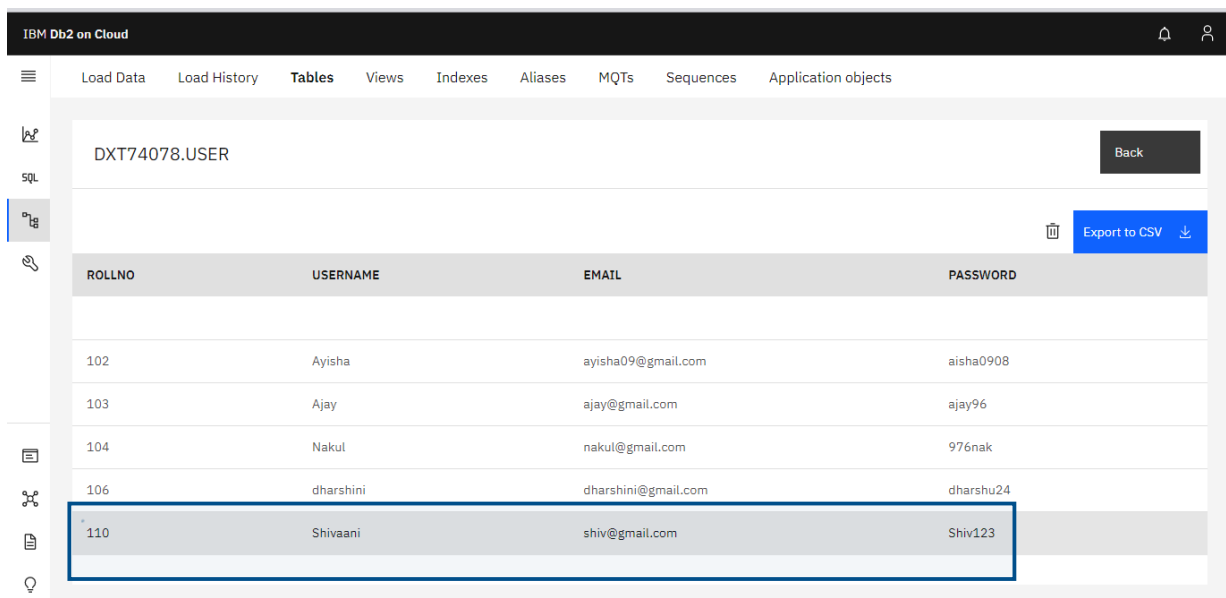
ROLLNO	USERNAME	EMAIL	PASSWORD
102	Ayisha	ayisha09@gmail.com	aisha0908
103	Ajay	ajay@gmail.com	ajay96
104	Nakul	nakul@gmail.com	976nak
106	dharshini	dharshini@gmail.com	dharshu24

Rollno 109 has been deleted in the user table.

3. Connect python code to db2



```
1 import ibm_db
2 dsn_hostname = "b0aebb08-94fa-40ec-a1fc-1c999edb6187.c3n41cmd8nqnk39u98g.databases.appdomain.cloud" # e.g.: "54a2f15b-5c0f-46df-8954-7e38e612c2bd.c10g13sd0"
3 dsn_uid = "dxt74078" # e.g. "abc12345"
4 dsn_pwd = "JfI4UpgnKKltIdkV" # e.g. "7d8Z3wT9XN6$00J"
5 dsn_driver = "{IBMDB2CL1}"
6 dsn_database = "bludb" # e.g. "BLUDB"
7 dsn_port = "31249" # e.g. "32733"
8 dsn_protocol = "TCPIP" # i.e. "TCPIP"
9 dsn_security = "SSL" # i.e. "SSL"
10 dsn_cert="DigiCertGlobalRootCA.crt"
11 dsn = (
12     "DRIVER={0};"
13     "DATABASE={1};"
14     "HOSTNAME={2};"
15     "PORT={3};"
16     "PROTOCOL={4};"
17     "UID={5};"
18     "PWD={6};"
19     "SECURITY={7};"
20     "SSLServerCertificate={8};".format(dsn_driver, dsn_database, dsn_hostname, dsn_port, dsn_protocol, dsn_uid, dsn_pwd, dsn_security, dsn_cert)
21 )
22 try:
23     conn = ibm_db.connect(dsn, "", "")
24     print("Connected to database: ", dsn_database, "as user: ", dsn_uid, "on host: ", dsn_hostname)
25 except:
26     print("Unable to connect: ", ibm_db.conn_errormsg())
27 sql = "insert into user values('110','Shivaani','shiv@gmail.com','Shiv123')"
28 ibm_db.exec_immediate(conn, sql)
29 print(dsn)
```



ROLLNO	USERNAME	EMAIL	PASSWORD
102	Ayisha	ayisha09@gmail.com	aisha0908
103	Ajay	ajay@gmail.com	ajay96
104	Nakul	nakul@gmail.com	976nak
106	dharshini	dharshini@gmail.com	dharshu24
110	Shivaani	shiv@gmail.com	Shiv123

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.

127.0.0.1:5000/register

shivaani Online Java Compil... Differences betwee... ibm IBM Chatbot Projec... IBM Cloud Meet - kqg-bbrv-ixb shopping cart back... Other bookmarks

REGISTRATION FORM

Name:

Roll Number:

Email:

Password:

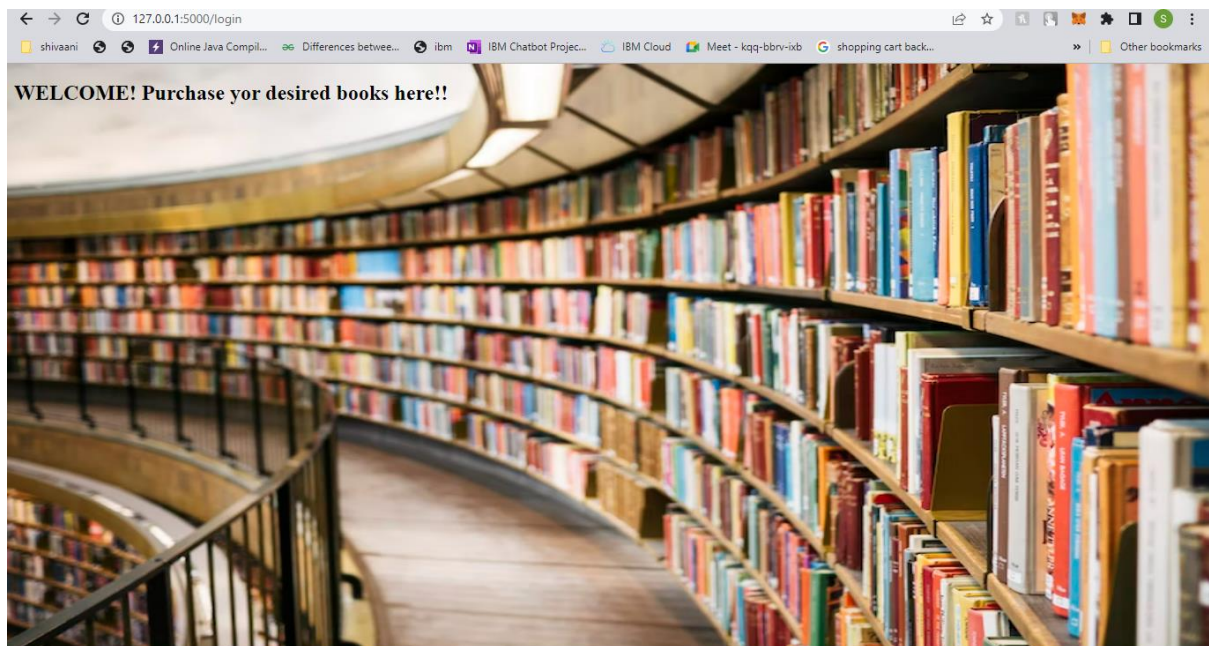
127.0.0.1:5000/login

shivaani Online Java Compil... Differences betwee... ibm IBM Chatbot Projec... IBM Cloud Meet - kqg-bbrv-ixb shopping cart back... Other bookmarks

LOGIN FORM

Name:

Password:



IBM Db2 on Cloud

Load Data Load History **Tables** Views Indexes Aliases MQTs Sequences Application objects

DXT74078.USER [Back](#)

[Export to CSV](#)

ROLLNO	USERNAME	EMAIL	PASSWORD
102	Ayisha	ayisha09@gmail.com	aisha0908
103	Ajay	ajay@gmail.com	ajay96
104	Nakul	nakul@gmail.com	976nak
106	dharshini	dharshini@gmail.com	dharshu24
112	Maya	maya06@gmail.com	maya06