

Assignment -2

Assignment Date	16 September 2022
Student Name	Jayakumar.J
Student Roll Number	420619104019
Maximum Marks	2 Marks
Project Name	Plasma Donor Application

Question-1:

1) Create 5 tables in IBM db2 and insert data by using insert query.

Solution:

```
INSERT INTO ASSIGNMENT (NAME,EMAIL,REGISTER NUMBER,DEPARTMENT,MOBILE NUMBER)
VALUES('IBM','test@ibm.com','9000');
```

VBS30730.ASSIGNMENT				
NAME	EMAIL	REGISTER NUMBER	DEPARTMENT	MOBILE NUMBER
B.Balaji	sivasiva6735@gmail.com	420619104010	CSE	8778764997
J.Jayakumar	jkrkumar1801@gmail.com	420619104019	CSE	7092219534
P.Arasakumaran	akumarancse843@gmail.com	420619104005	CSE	8208958366
P.Ramprakash	ramp894028@gmail.com	420619104029	CSE	8667237385
R.Raviganesh	rgcena16@gmail.com	420619104025	CSE	9686290663

Question-2:

2) Perform UPDATE, DELETE queries in 5 tables.

Solution:

UPDATE ASSIGNMENT

SET Mobile Number ='Phone Number'

WHERE Name=R.Raviganesh;

DELETE FROM ASSIGNMENT

WHERE [A.Arunkumar]

Question-3:

3) Load excel comma separated file to db2?

Solution:

NAME	EMAIL	REGISTER NUMBER	DEPARTMENT	PHONE NUMBER
A.Arunkumar	arunkumar04042002a@gmail.com	420619104008	CSE	9150671908
P.Ramprakash	ramp894028@gmail.com	420619104029	CSE	8667237385
J.Jayakumar	jkrkumar1801@gmail.com	420619104019	CSE	7092219534
B.Balaji	sivasiva6735@gmail.com	420619104010	CSE	8778764997
P.Arasakumaran	akumarancse843@gmail.com	420619104005	CSE	8208958366

The screenshot shows the IBM Db2 on Cloud web console. The top navigation bar includes 'Load Data', 'Load History', 'Tables', 'Views', 'Indexes', 'Aliases', 'MQTs', 'Sequences', and 'Application objects'. The 'Tables' tab is selected, and the table 'VBS30730.ASSIGNMENT' is displayed. The table has five columns: NAME, EMAIL, REGISTER NUMBER, DEPARTMENT, and MOBILE NUMBER. The data rows are as follows:

NAME	EMAIL	REGISTER NUMBER	DEPARTMENT	MOBILE NUMBER
B.Balaji	sivasiva6735@gmail.com	420619104010	CSE	8778764997
J.Jayakumar	jkrkumar1801@gmail.com	420619104019	CSE	7092219534
P.Arasakumaran	akumarancse843@gmail.com	420619104005	CSE	8208958366
P.Ramprakash	ramp894028@gmail.com	420619104029	CSE	8667237385
R.Raviganesh	rgcena16@gmail.com	420619104025	CSE	9686290663

Additional interface elements include a 'Back' button, an 'Export to CSV' button, and a sidebar with icons for SQL, Tables, Views, Indexes, Aliases, MQTs, Sequences, and Application objects.

Question-4:

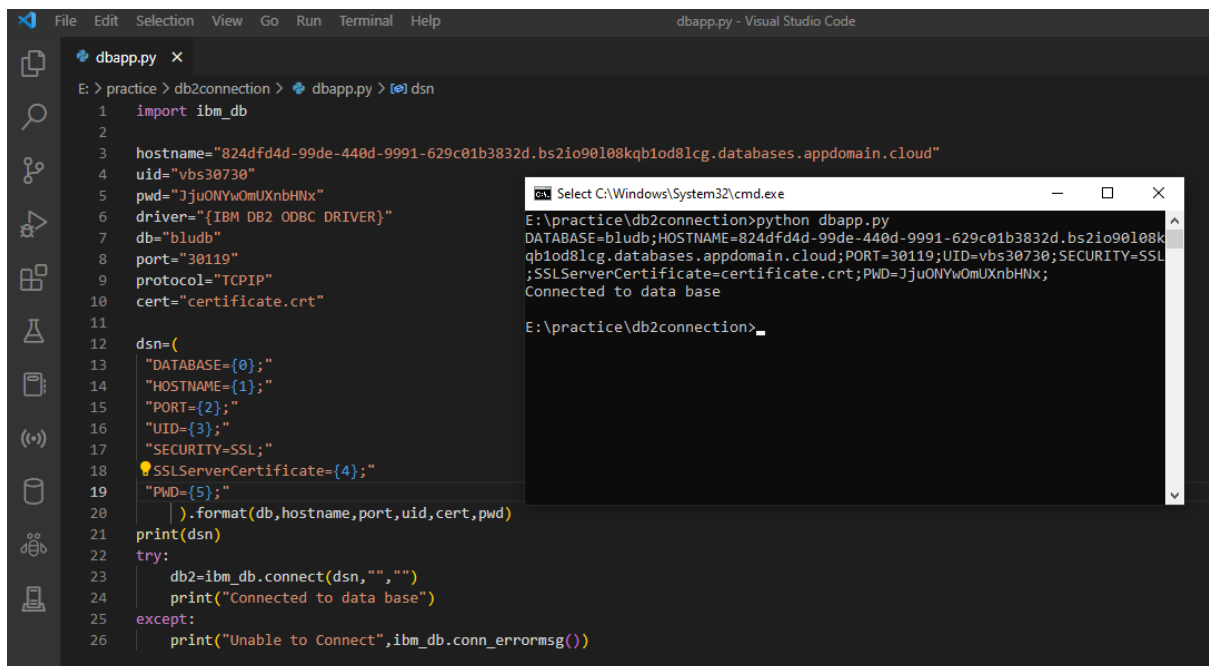
4) Connect python to db2.

Solution:

```
import ibm_db
```

```
hostname="824dfd4d-99de-440d-9991629c01b3832d.bs2io90l08kqb1od8lcg.databases.appdomain.cloud"
uid="vbs30730"
pwd="JjuONYwOmUXnbHNx"
driver="{IBM DB2 ODBC DRIVER}"
db="bludb"
port="30119"
protocol="TCPIP"
cert="certificate.crt"
```

```
dsn=(
    "DATABASE={0};"
    "HOSTNAME={1};"
    "PORT={2};"
    "UID={3};"
    "SECURITY=SSL;"
    "SSLServerCertificate={4};"
    "PWD={5};"
).format(db,hostname,port,uid,cert,pwd)
print(dsn)
try:
    db2=ibm_db.connect(dsn,"","")
    print("Connected to data base")
except:
    print("Unable to Connect",ibm_db.conn_errormsg())
```



The screenshot shows the Visual Studio Code editor with a file named `dbapp.py` open. The code in the file is as follows:

```
1 import ibm_db
2
3 hostname="824dfd4d-99de-440d-9991-629c01b3832d.bs2io90l08kqb1od8lcg.databases.appdomain.cloud"
4 uid="vbs30730"
5 pwd="JjuONYwOmUXnbHNx"
6 driver="{IBM DB2 ODBC DRIVER}"
7 db="bludb"
8 port="30119"
9 protocol="TCPIP"
10 cert="certificate.crt"
11
12 dsn=(
13     "DATABASE={0};"
14     "HOSTNAME={1};"
15     "PORT={2};"
16     "UID={3};"
17     "SECURITY=SSL;"
18     "SSLServerCertificate={4};"
19     "PWD={5};"
20     ).format(db,hostname,port,uid,cert,pwd)
21 print(dsn)
22 try:
23     db2=ibm_db.connect(dsn,"","")
24     print("Connected to data base")
25 except:
26     print("Unable to Connect",ibm_db.conn_errormsg())
```

Below the code editor, a terminal window is open, showing the command prompt output of running the script:

```
E:\practice>python dbapp.py
DATABASE=bludb;HOSTNAME=824dfd4d-99de-440d-9991-629c01b3832d.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;PORT=30119;UID=vbs30730;SECURITY=SSL;SSLServerCertificate=certificate.crt;PWD=JjuONYwOmUXnbHNx;
Connected to data base
E:\practice>
```

