

# ASSIGNMENT – 2

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**PROJECT NAME** : SKILL / JOB RECOMMENDER APPLICATION

**1.CREATE 5 TABLES IN IBM db2 and insert data by using insert query.**

**2.PERFORM UPDATE , DELETE QUERIES in 5 tables.**

TABLE1:

```
INSERT INTO TABLE1 (NAME, ID)
```

```
VALUES ('RAM', '1');
```

```
INSERT INTO TABLE1 (NAME, ID)
```

```
VALUES ('GOKUL', '3');
```

```
INSERT INTO TABLE1 (NAME, ID)
```

```
VALUES ('RAJ', '2');
```

```
UPDATE TABLE1
```

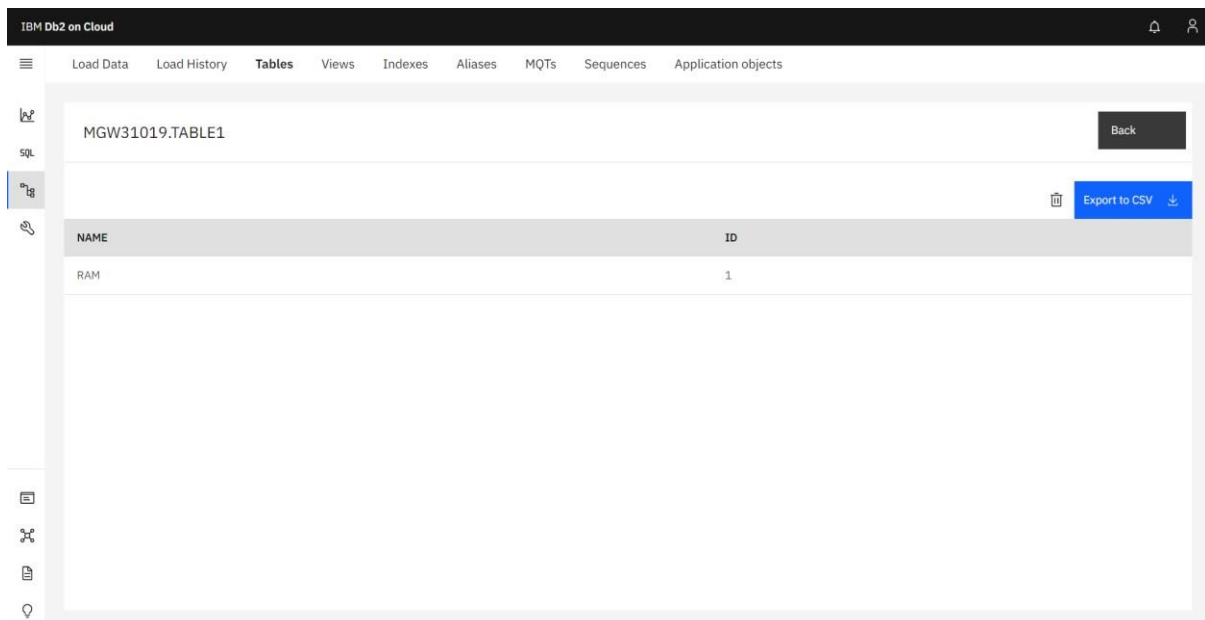
```
SET ID = '2'
```

```
WHERE NAME = 'GOKUL';
```

```
DELETE FROM TABLE1
```

```
WHERE ID = '2';
```

OUTPUT:



The screenshot shows the IBM Db2 on Cloud web interface. The top navigation bar includes 'Load Data', 'Load History', 'Tables', 'Views', 'Indexes', 'Aliases', 'MQTs', 'Sequences', and 'Application objects'. The 'Tables' tab is selected. On the left sidebar, there are icons for 'SQL' and 'Table Editor'. The main area displays the table 'MGW31019.TABLE1'. It has two columns: 'NAME' and 'ID'. There is one row with the values 'RAM' and '1'. A 'Back' button is in the top right corner of the table view. Below the table, there is an 'Export to CSV' button with a download icon.

NAME	ID
RAM	1

TABLE2:

```
INSERT INTO TABLE2 (NAME, GENDER)
```

```
VALUES ('RAM', 'M');
```

```
INSERT INTO TABLE2 (NAME, GENDER)
```

```
VALUES ('GOKUL', 'F');
```

```
INSERT INTO TABLE2 (NAME, GENDER)
```

```
VALUES ('RAJ', 'M');
```

```
UPDATE TABLE2
```

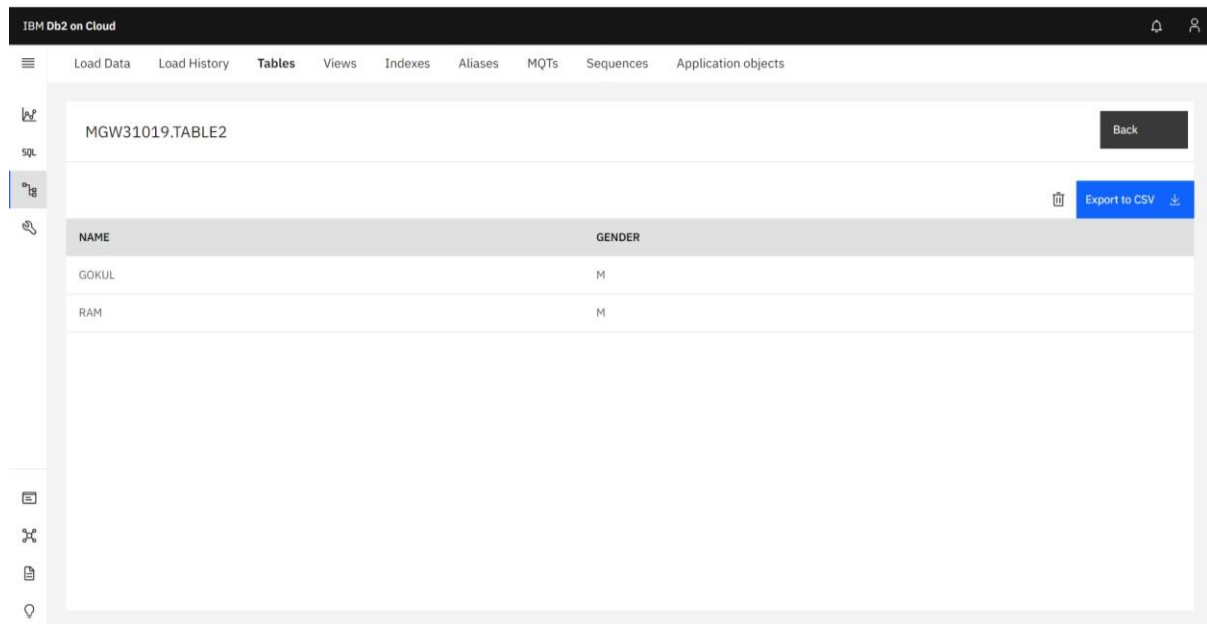
```
SET GENDER = 'M'
```

```
WHERE NAME = 'GOKUL';
```

```
DELETE FROM TABLE2
```

```
WHERE NAME = 'RAJ';
```

OUTPUT:



The screenshot displays the IBM Db2 on Cloud web interface. At the top, a navigation bar includes 'Load Data', 'Load History', 'Tables', 'Views', 'Indexes', 'Aliases', 'MQTs', 'Sequences', and 'Application objects'. The 'Tables' tab is selected. On the left, a sidebar shows icons for 'SQL' and 'Data Explorer'. The main area displays the table 'MGW31019.TABLE2'. A 'Back' button is in the top right of the table view. Below the table name, there is an 'Export to CSV' button with a download icon. The table itself has two columns: 'NAME' and 'GENDER'. It contains two rows of data: one for 'GOKUL' with gender 'M', and another for 'RAM' with gender 'M'.

NAME	GENDER
GOKUL	M
RAM	M

TABLE3:

```
INSERT INTO TABLE3 (NAME, LOCATION)
```

```
VALUES ('RAM', 'CHENNAI');
```

```
INSERT INTO TABLE3 (NAME, LOCATION)
```

```
VALUES ('GOKUL', 'ERODE');
```

```
INSERT INTO TABLE3 (NAME, LOCATION)
```

```
VALUES ('RAJ', 'KOVAI');
```

```
UPDATE TABLE3
```

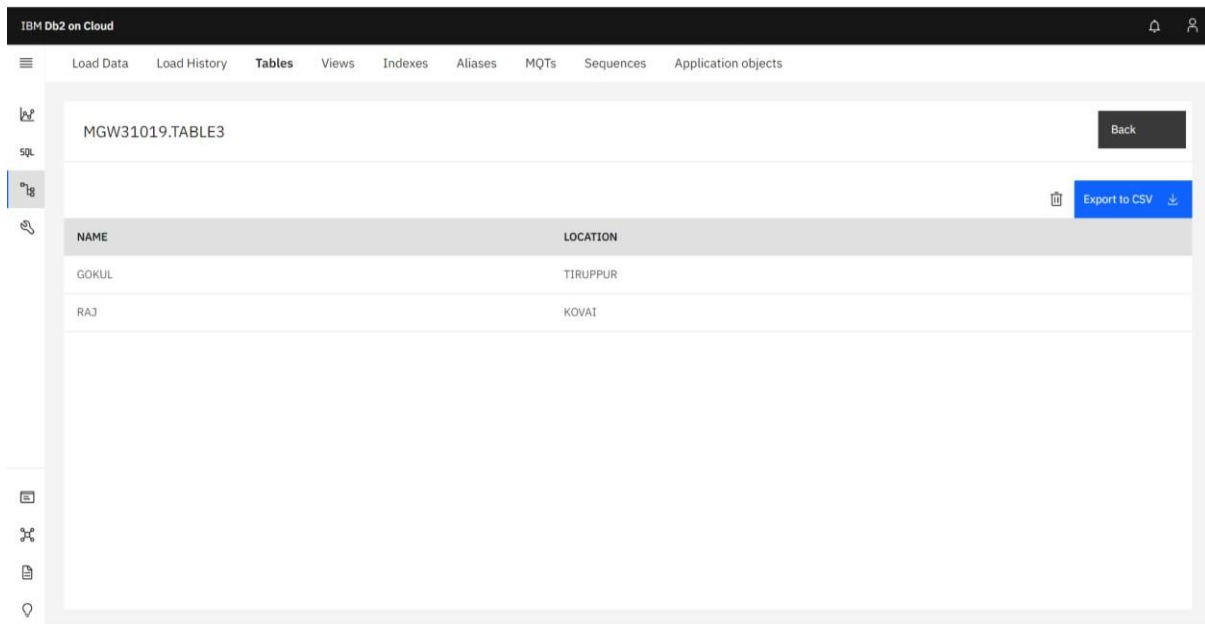
```
SET LOCATION = 'TIRUPPUR'
```

```
WHERE NAME = 'GOKUL';
```

```
DELETE FROM TABLE3
```

```
WHERE LOCATION = 'CHENNAI';
```

OUTPUT:



The screenshot displays the IBM Db2 on Cloud web interface. The top navigation bar includes 'Load Data', 'Load History', 'Tables', 'Views', 'Indexes', 'Aliases', 'MQTs', 'Sequences', and 'Application objects'. The 'Tables' tab is selected, showing a table named 'MGW31019.TABLE3'. The table structure is as follows:

NAME	LOCATION
GOKUL	TIRUPPUR
RAJ	KOVAI

Additional interface elements include a 'Back' button, an 'Export to CSV' button, and a sidebar with icons for various database functions.

TABLE4:

```
INSERT INTO TABLE4 (NAME, LANG)
VALUES ('RAM', 'HINDI');

INSERT INTO TABLE4 (NAME, LANG)
VALUES ('GOKUL', 'TAMIL');

INSERT INTO TABLE4 (NAME, LANG)
VALUES ('RAJ', 'ENGLISH');
```

```
UPDATE TABLE4
SET LANG = 'TAMIL'
WHERE NAME = 'RAJ';
```

```
DELETE FROM TABLE4
WHERE LANG = 'HINDI';
```

OUTPUT:

The screenshot shows the IBM Db2 on Cloud web interface. The top navigation bar includes 'Load Data', 'Load History', 'Tables', 'Views', 'Indexes', 'Aliases', 'MQTs', 'Sequences', and 'Application objects'. The 'Tables' tab is selected. On the left sidebar, there are icons for 'SQL' and 'Data Explorer'. The main content area displays the table 'MGW31019.TABLE4'. Above the table data, there is a 'Back' button and an 'Export to CSV' button. The table has two columns: 'NAME' and 'LANG'. The data rows are:

NAME	LANG
GOKUL	TAMIL
RAJ	TAMIL

TABLE5:

```
INSERT INTO TABLE5 (NAME, PASSWORD)
```

```
VALUES ('RAM', '123');
```

```
INSERT INTO TABLE5 (NAME, PASSWORD)
```

```
VALUES ('GOKUL', '234');
```

```
INSERT INTO TABLE5 (NAME, PASSWORD)
```

```
VALUES ('RAJ', '456');
```

```
UPDATE TABLE5
```

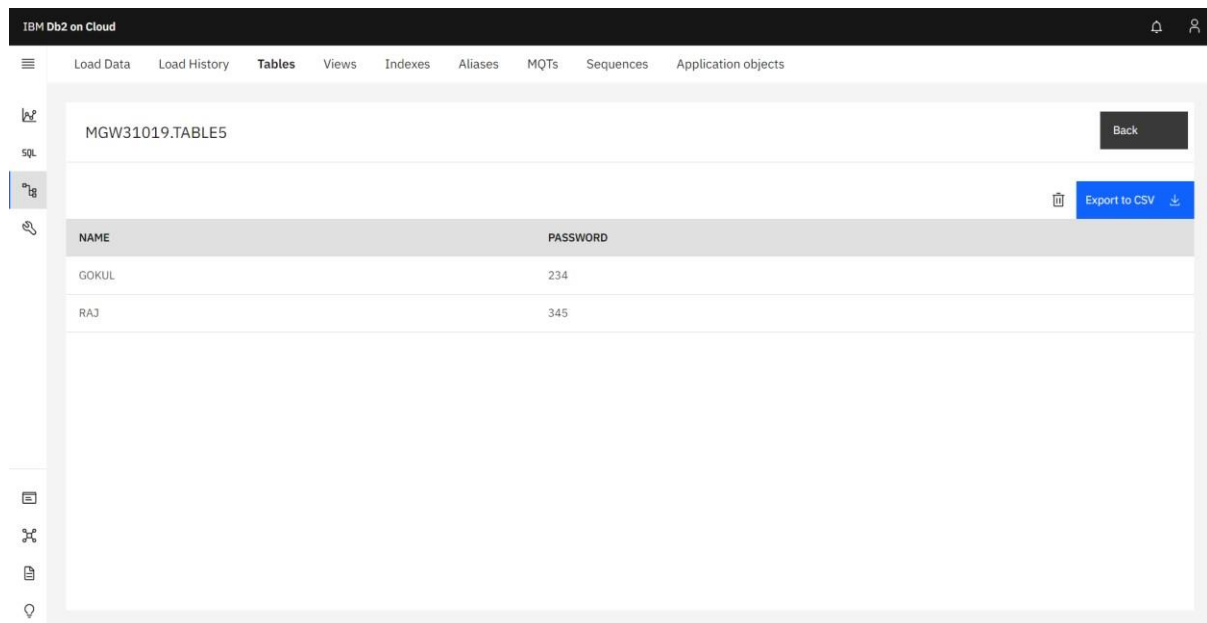
```
SET PASSWORD = '345'
```

```
WHERE NAME = 'RAJ';
```

```
DELETE FROM TABLE5
```

```
WHERE PASSWORD = '123';
```

OUTPUT:



IBM Db2 on Cloud

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

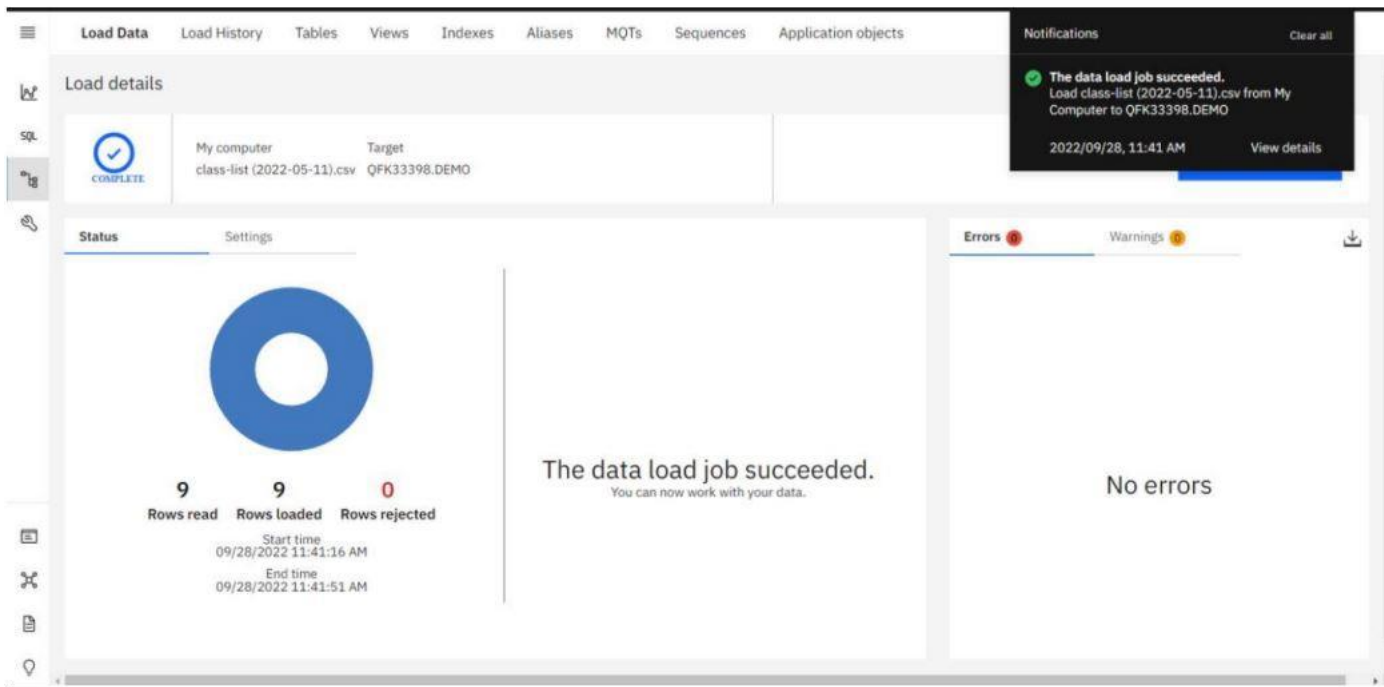
MGW31019.TABLE5

Back

Export to CSV

NAME	PASSWORD
GOKUL	234
RAJ	345

### 3.LOAD EXCEL COMMA SEPERATED FILE TO db2:



Export to CSV

Attendance for:	class-list	COLUMN_2	COLUMN_3	COLUMN_4	COLUMN_5	COLUMN_6	COLUMN_7	COLUMN_8
Bharath Raj	✓			19:51	19:52	2	1	
Date:	2022-05-11	Time:	19:52	Meet ID:	ncp-zpcz-zzb			
Help/more info:	<a href="https://tinyurl.com/y5peu3nk">https://tinyurl.com/y5peu3nk</a>							
Names	2022-05-11	Email	Comments	Arrival time	Last Seen	# of Checks	Joined	Details
Somnath Gorai	✓			19:51	19:52	2	1	

### 4.CONNECT PYTHON TO db2:

CODING:

```
import ibm_db

hostname = '19af6446-6171-4641-8aba-9dcff8e1b6ff.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud'
uid = 'mgw31019'
pwd = '7yZWf9eVjAKLLYRr'
driver = "{IBM DB2 ODBC DRIVER}"
db = 'bludb'
port = '30699'
protocol = 'TCPIP'
```

```

cert = 'DBCertificate.crt'

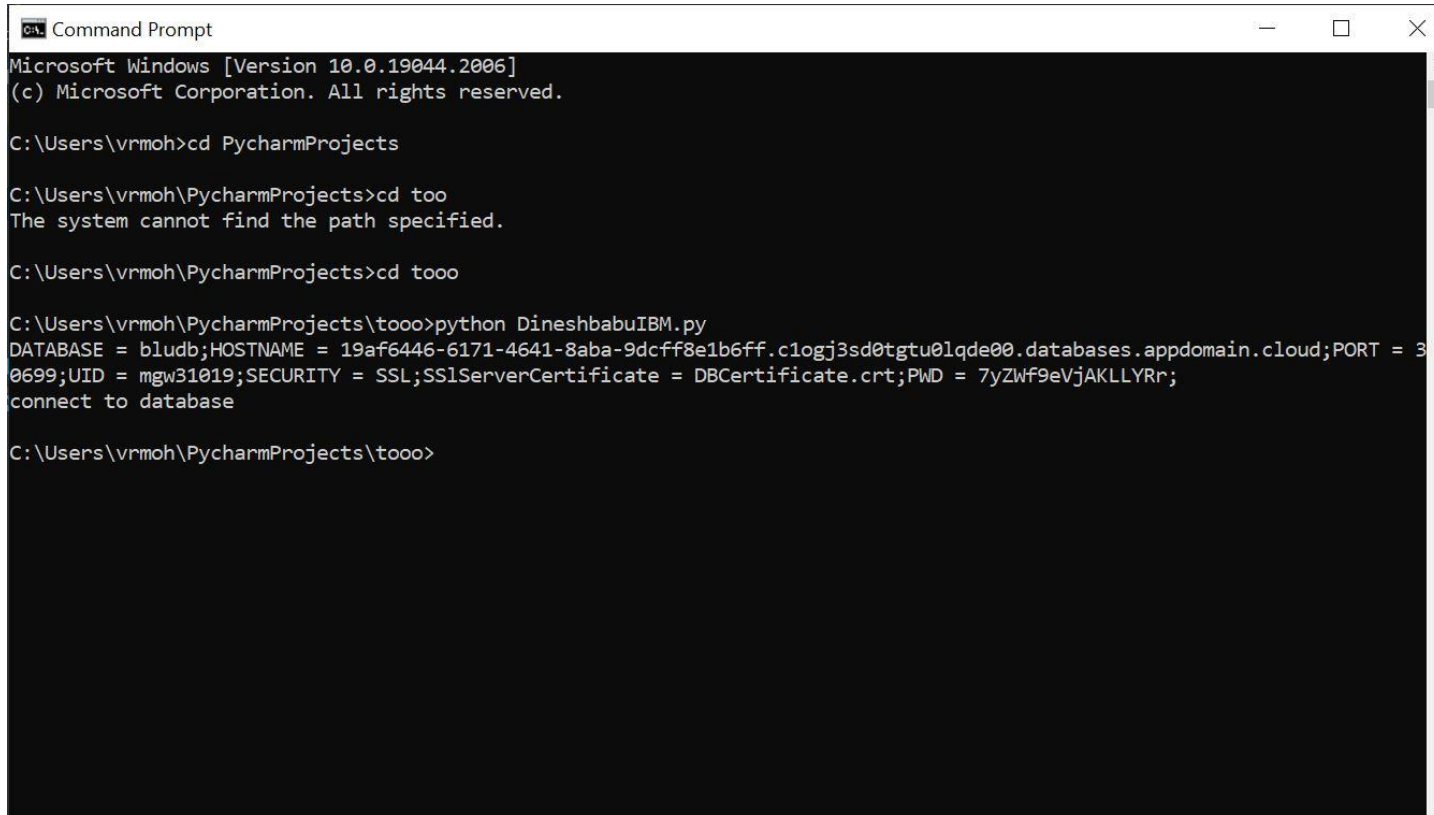
dsn = (
    "DATABASE = {0};"
    "HOSTNAME = {1};"
    "PORT = {2};"
    "UID = {3};"
    "SECURITY = SSL;"
    "SSLServerCertificate = {4};"
    "PWD = {5};"
).format(db, hostname, port, uid, cert, pwd)

print(dsn)

try:
    db2 = ibm_db.connect(dsn, " ", " ")
    print("connect to database")
except:
    print("unable to connect ", ibm_db.conn_errormsg())

```

OUTPUT:



```

C:\> Command Prompt
Microsoft Windows [Version 10.0.19044.2006]
(c) Microsoft Corporation. All rights reserved.

C:\Users\vrroh>cd PycharmProjects

C:\Users\vrroh\PycharmProjects>cd too
The system cannot find the path specified.

C:\Users\vrroh\PycharmProjects>cd tooo

C:\Users\vrroh\PycharmProjects\tooo>python DineshbabuIBM.py
DATABASE = bludb;HOSTNAME = 19af6446-6171-4641-8aba-9dcff8e1b6ff.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT = 3
0699;UID = mgw31019;SECURITY = SSL;SSLServerCertificate = DBCertificate.crt;PWD = 7yZWf9eVjAKLLYRr;
connect to database

C:\Users\vrroh\PycharmProjects\tooo>

```