

Create IBM DB2 and Connect With Python

Team ID	PNT2022TMID35229
Project Name	CONTAINMENT ZONE ALERTING

IBM DB2

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 active, showing a list of tables in the 'DNP80914' schema: 'INF_LOCATION', 'LOCATION', and 'USERS'. The 'USERS' table is selected, and its definition is shown on the right. The table definition for 'USERS' includes columns: 'ID' (INTEGER, NOT NULLABLE), 'USERNAME' (VARCHAR(30), NULLABLE), 'EMAIL' (VARCHAR(30), NULLABLE), 'PASSWORD' (VARCHAR(30), NULLABLE), and 'TYPE' (INTEGER, NULLABLE). The 'View data' button is visible at the bottom of the table definition panel.

Name	Schema	Properties
INF_LOCATION	DNP80914	...
LOCATION	DNP80914	...
USERS	DNP80914	...

Name	Data type	Nullable	Length	Scale
ID	INTEGER	N		0
USERNAME	VARCHAR	Y	30	0
EMAIL	VARCHAR	Y	30	0
PASSWORD	VARCHAR	Y	30	0
TYPE	INTEGER	Y		0

The above picture denotes the successful creation of database in the IBM DB2

Code to connect IBM Cloud with Python

```
app.py 9+ x
D: > PRASHANTH > Projects > Final Deliverables > Flask_Application > app.py > ...

1  # create a flask app
2  import os
3  import re
4  import ibm_db
5  import requests
6  from flask import *
7  from glances_globals import json_dumps
8  from sendgrid import SendGridAPIClient
9  from sendgrid.helpers.mail import Mail
10
11 app = Flask(__name__, static_url_path='/static', static_folder='static', template_folder='templates')
12 app.secret_key = 'sus'
13 conn = ibm_db.pconnect("DATABASE=BLUDB;"
14                        "HOSTNAME=54a2f15b-5c0f-46df-8954-7e38e612c2bd.c1ogj3sd0tg0lqde00.databases.appdomain.cloud;"
15                        "PORT=32733;"
16                        "UID=dn80914;PWD=50tVWHTwkHw2GmU3;"
17                        "PROTOCOL=TCP;"
18                        "Security=SSL;"
19                        "sslConnection=true;"
20                        "SSLServerCertificate=DigiCertGlobalRootCA.crt;"
21                        "","","")
22
23 # print("Connected to database", conn)
24
```

Cloud to connect IBM Cloud connect with python