

# CREATE IBM DB2 AND CONNECT WITH PYTHON

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Project Name	Personal Expense Tracker

## 1. Creating IMB DB2

The screenshot shows the IBM Cloud dashboard for a Db2 instance. The main content area is titled 'ibm-project-db2' and is marked as 'Active'. It includes a 'Getting started' section with instructions on finding credentials and a 'Need help?' section with a link to submit a support case. The 'Details' panel on the right shows the resource's offering, creation date, and location.

Offering	Created
Db2	10/18/2022

Created by	Resource group
2019503049@smartinternz.com	Default

Location	Status
Dallas	Active

## TABLES:

The screenshot shows the IBM Cloud dashboard for a Db2 instance, specifically the 'Tables' section. The table list includes 'EXPENSES', 'LIMITS', 'REGISTER', and 'USER'. The 'Table definition' panel on the right shows the schema for the 'LIMITS' table, including columns 'USERID' and 'LIMITSS'.

Name	Schema	Properties
EXPENSES	YGG32911	...
LIMITS	YGG32911	...
REGISTER	YGG32911	...
USER	YGG32911	...

Name	Data type	Nullable	Length	Scale
USERID	INTEGER	N		0
LIMITSS	INTEGER	N		0

## 2. Connecting DB2 with python

### CODE:

```
from flask_db2 import DB2
import ibm_db
import ibm_db_dbi
app = Flask(__name__)
app.secret_key='a'

try:
    conn_str='\
database=bludb;\
hostname=19af6446-6171-4641-8aba-9dcff8e1b6ff.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;\
port=30699;\
protocol=tcpip;\
uid=ygg32911;\
pwd=t7vf4VqR804hCMvX;\
security=SSL'

    ibm_db_conn = ibm_db.connect(conn_str,"")
    print("Database connected without any error !!")

except:
    print("IBM DB Connection error : " + DB2.conn_errormsg())
```

### OUTPUT:

```
PS D:\CS subjects\IBM Project\Tranning session\Project Development Phase\Sprint 4> flask run
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: off
Database connected without any error !!
* Running on http://127.0.0.1:5000 (Press CTRL+C to quit)
```