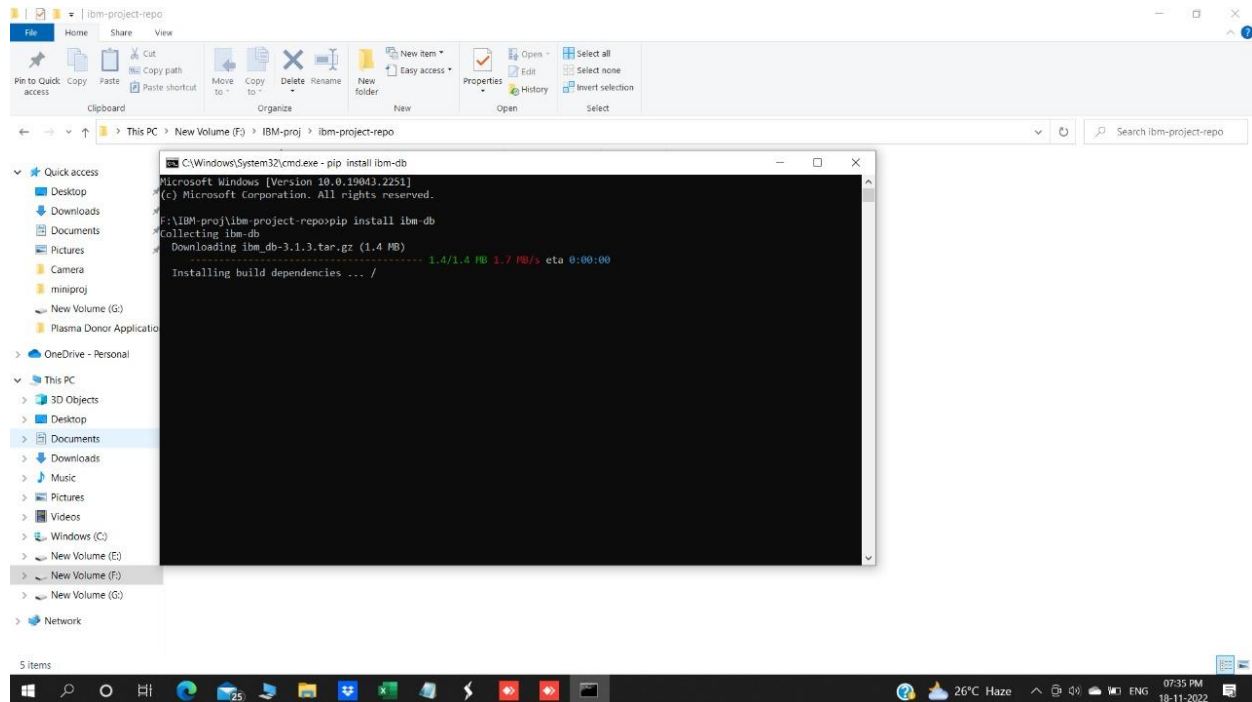


Date	12 Nov 2022
Team ID	PNT2022TMID20051
Project Name	Plasma Donor Application

Create IBM DB2 and connect with Python



cloud.ibm.com/catalog/services/db2

IBM Cloud

Provider: Dallas (us-south)

Last updated: 11/10/2022

Category: Databases

Compliance: EU Supported, HIPAA Enabled, IAM-enabled

Location: Sydney, Frankfurt, London, Dallas, Sao Paulo, Toronto, Tokyo, Milan 01, Montreal 01, Washington DC

Related links: API docs, Docs

Select a pricing plan

Displayed prices do not include tax. Monthly prices shown are for country or location: [United States](#)

Plan	Features	Pricing
Lite	200 MB of data storage 5 simultaneous connections Shared multitenant system	Free
Standard	Instance with flexible scaling of compute and storage Base instance starts at 8 GB RAM x 20 GB Storage	\$0.136 USD/Instance-Hour \$0.00027 USD/Gigabyte-Hours \$0.097 USD/Virtual Processor Core-Hour \$0.00003 USD/BACKUP_GIGABYTE_HOURS \$0.0969

The Free plan provides a free Db2 service for development and evaluation. The plan has a set amount of limitations as shown. You can continue using the free plan for as long as needed, however, users are asked to re-extend their free account every 90 days by email. If you do not re-extend, your free account is cleaned out a further 90 days later. This helps provide free resources for everyone.

Lite plan services are deleted after 30 days of inactivity.

HIPAA Enabled

Summary

Db2 **Free**

Location: Dallas
Plan: Lite
Service name: Db2-uu
Resource group: Default

☒ I have read and agree to the following license agreements:
[Terms](#)

Create

Add to estimate

bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/cm%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2F48f56642b0974df7905a...

IBM Db2 on Cloud

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

Find schemas or tables

Refresh

Schemas

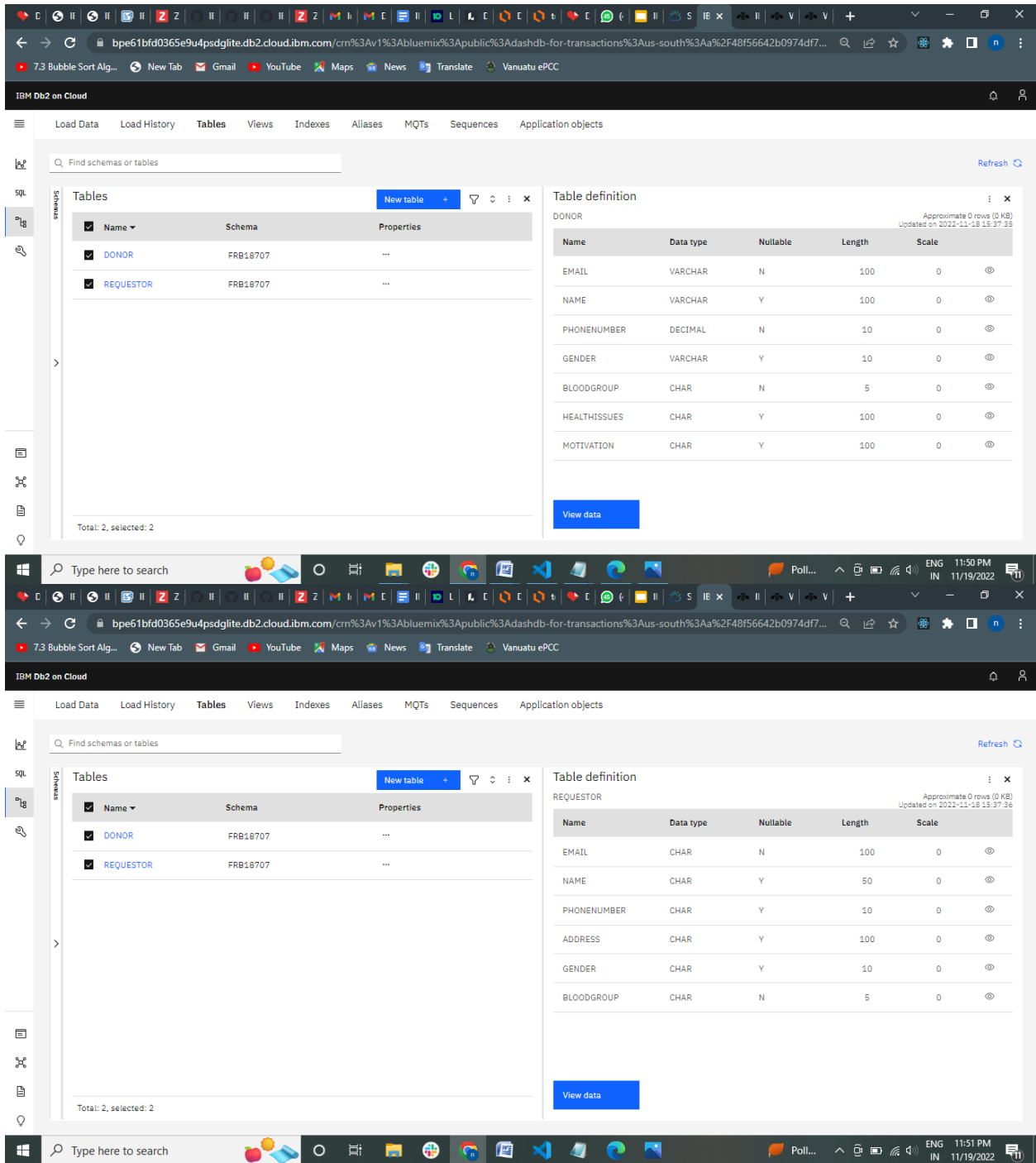
Name	Type	Tables
FRB18707	User	2

Total: 1, selected: 1

Tables

Name	Schema	Properties
DONOR	FRB18707	...
REQUESTOR	FRB18707	...

Total: 2, selected: 0



```

from distutils.log import debug
from sendgridmail import sendmail
from flask import Flask, render_template, request, redirect, url_for, session
import ibm_db
import re
import os
from dotenv import load_dotenv

```

```

load_dotenv()

app = Flask(__name__)

app.secret_key = 'a'

conn=ibm_db.connect(os.getenv('DB_KEY'),"", "")

@app.route('/')
@app.route('/login')
def login():
    return render_template('login.html')

@app.route('/loginpage',methods=['GET', 'POST'])
def loginpage():
    global userid
    msg = ""

    if request.method == 'POST' :
        username = request.form['username']
        password = request.form['password']
        sql = "SELECT * FROM donors WHERE username =? AND password=?"
        stmt = ibm_db.prepare(conn, sql)
        ibm_db.bind_param(stmt,1,username)
        ibm_db.bind_param(stmt,2,password)
        ibm_db.execute(stmt)
        account = ibm_db.fetch_assoc(stmt)
        print (account)
        if account:
            session['loggedin'] = True
            session['id'] = account['USERNAME']
            userid= account['USERNAME']
            session['username'] = account['USERNAME']
            msg = 'Logged in successfully !'
            sendmail(account['EMAIL'],'Plasma donor App login','You are successfully logged in!')
            return redirect(url_for('dash'))
        else:
            msg = 'Incorrect username / password !'
    return render_template('login.html', msg = msg)

@app.route('/registration')
def home():
    return render_template('register.html')

@app.route('/register',methods=['GET', 'POST'])
def register():
    msg = ""
    if request.method == 'POST' :
        name = request.form['name']
        email = request.form['email']
        phone = request.form['phone']
        blood = request.form['blood']
        sql = "SELECT * FROM donors WHERE username =?"

```

```

stmt = ibm_db.prepare(conn, sql)
ibm_db.bind_param(stmt, 1, username)
ibm_db.execute(stmt)
account = ibm_db.fetch_assoc(stmt)
print(account)
if account:
    msg = 'Account already exists !'
elif not re.match(r'^[a-zA-Z0-9]+@[a-zA-Z0-9]+\.[a-zA-Z]+', email):
    msg = 'Invalid email address !'
elif not re.match(r'[A-Za-z0-9]+', name):
    msg = 'name must contain only characters and numbers !'
else:
    insert_sql = "INSERT INTO donors VALUES (?, ?, ?, ?)"
    prep_stmt = ibm_db.prepare(conn, insert_sql)
    ibm_db.bind_param(prepare_stmt, 1, name)
    ibm_db.bind_param(prepare_stmt, 2, email)
    ibm_db.bind_param(prepare_stmt, 6, blood)
    ibm_db.bind_param(prepare_stmt, 7, phone)

    ibm_db.execute(prepare_stmt)
    msg = 'You have successfully registered !'
    sendmail(email, 'Plasma donor App Registration', 'You are successfully Registered {}'.format(username))

elif request.method == 'POST':
    msg = 'Please fill out the form !'
    return render_template('register.html', msg = msg)

@app.route('/dashboard')
def dash():
    if session['loggedin'] == True:
        sql = "SELECT COUNT(*) FROM DONORS WHERE blood='O Positive'), (SELECT COUNT(*) FROM DONORS WHERE blood='A Positive'), (SELECT COUNT(*) FROM DONORS WHERE blood='B Positive'), (SELECT COUNT(*) FROM DONORS WHERE blood='AB Positive'), (SELECT COUNT(*) FROM DONORS WHERE blood='O Negative'), (SELECT COUNT(*) FROM DONORS WHERE blood='A Negative'), (SELECT COUNT(*) FROM DONORS WHERE blood='B Negative'), (SELECT COUNT(*) FROM DONORS WHERE blood='AB Negative') FROM donors"
        stmt = ibm_db.prepare(conn, sql)
        ibm_db.execute(stmt)
        account = ibm_db.fetch_assoc(stmt)
        print(account)
        return render_template('dashboard.html', b=account)
    else:
        msg = 'Please login!'
        return render_template('login.html', msg = msg)

@app.route('/requester')
def requester():
    if session['loggedin'] == True:
        return render_template('request.html')
    else:
        msg = 'Please login!'
        return render_template('login.html', msg = msg)

@app.route('/requested', methods=['POST'])
def requested():
    bloodgrp = request.form['bloodgrp']

```

```

address = request.form['address']
name= request.form['name']
email= request.form['email']
phone= request.form['phone']
insert_sql = "INSERT INTO requested VALUES (?, ?, ?, ?, ?)"
prep_stmt = ibm_db.prepare(conn, insert_sql)
ibm_db.bind_param(prepare_stmt, 1, bloodgrp)
ibm_db.bind_param(prepare_stmt, 2, address)
ibm_db.bind_param(prepare_stmt, 3, name)
ibm_db.bind_param(prepare_stmt, 4, email)
ibm_db.bind_param(prepare_stmt, 5, phone)
ibm_db.execute(prepare_stmt)
sendmail(email,'Plasma donor App plasma request','Your request for plasma is recieved.')
return render_template('request.html', pred="Your request is sent to the concerned people.")

```

```
@app.route('/logout')
```

```

def logout():
    session.pop('loggedin', None)
    session.pop('id', None)
    session.pop('username', None)
    return render_template('login.html')

if __name__ == '__main__':
    app.run(host='0.0.0.0',debug="TRUE")

```