SPRINT – 2

Data	**05/10/2022**
Team ID	**PNT2022TMID32597**
Project Name	**Personal Expense Tracker**

DATABASE ;

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from __future__ import print_function
from datetime import datetime
from flask import Flask, request, json, jsonify
from flask_json import FlaskJSON, json_response
from flask_cors import CORS
import ibm_db
from template import *

# Initializing flask app
app = Flask(__name__)
jsonObj = FlaskJSON(app)
cors = CORS(app,resources={r'*':{'origins':'http://localhost:3000'}})

conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=125f9f61-9715-46f9-9399-
c8177b21803b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30426;Security=S
SL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=mpr37327;PWD=k5iRh2q3KBMmZr7
Z;","","")

# Route for seeing a data
@app.route('/login')
def login():
    email = request.args.get('email')
    password = request.args.get('password')
    sql = "SELECT * FROM login where email ='{}'".format(email)
    out = ibm_db.exec_immediate(conn, sql)
    document = ibm_db.fetch_assoc(out)
    if document == False :
        response = json_response(value=0)
    elif document['PASSWORD'] == password :
        response = json_response(value=1)
    else :
        response = json_response(value=2)
    return response

@app.route('/register',methods=['POST'])
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def register():
    if request.method == "POST":
        credentials = json.loads(request.data)
        sql = "INSERT INTO login
VALUES('{}','{}')".format(credentials['email'],credentials['password'])
        out = ibm_db.exec_immediate(conn, sql)
        sql = "INSERT INTO personal_info(email,name)
VALUES('{}','{}')".format(credentials['email'],credentials['name'])
        out = ibm_db.exec_immediate(conn, sql)
        response = json_response(200)
        return response

@app.route('/loadData')
def loadData():
    email = request.args.get('email')
    sql = "select sum(amount) as expense from expenses where email='{}' and
month(timestamp)=month(current_timestamp)".format(email)
    out = ibm_db.exec_immediate(conn, sql)
    document = ibm_db.fetch_assoc(out)

    totalExpense = document['EXPENSE']
    print(totalExpense)
    resultData = {
        'totalExpense' : document['EXPENSE'],
    }
    sql = "select walletlimit from personal_info where email =
'{}'".format(email)
    out = ibm_db.exec_immediate(conn, sql)
    document = ibm_db.fetch_assoc(out)

    # if resultData['totalExpense'] == None:
    #     resultData['balance'] = 0
    # else:
    #     resultData['balance'] = document['WALLETLIMIT'] - totalExpense
    sql = "select category, sum(amount) as expense from expenses where email='{}'
and month(timestamp)=month(current_timestamp) group by category".format(email)
    out = ibm_db.exec_immediate(conn, sql)
    document = ibm_db.fetch_assoc(out)
    piegraphData = []
    piegraphLabel = []
    while document != False:
        piegraphLabel.append(document["CATEGORY"])
        piegraphData.append(document["EXPENSE"])
        document = ibm_db.fetch_assoc(out)
    resultData['piegraphdata'] = piegraphData
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    resultData['piegraphlabel'] = piegraphLabel
    sql = "select dayname(cast(timestamp as date)) as day, sum(amount) as expense
from expenses,sysibm.sysdummy1 where email='{}' and
week(timestamp)=week(current_timestamp) group by cast(timestamp as
date)".format(email)
    out = ibm_db.exec_immediate(conn, sql)
    document = ibm_db.fetch_assoc(out)
    bargraphData = []
    bargraphLabel =[]
    while document != False:
        bargraphLabel.append(document['DAY'])
        bargraphData.append(document["EXPENSE"])
        document = ibm_db.fetch_assoc(out)
    resultData['bargraphdata'] = bargraphData
    resultData['bargraphlabel'] = bargraphLabel
    sql = "select sum(amount) as expense from expenses where email='{}' and
date(timestamp)=date(current_timestamp)".format(email)
    out = ibm_db.exec_immediate(conn, sql)
    document = ibm_db.fetch_assoc(out)
    resultData['dailyExpense']=document['EXPENSE']
    response = json_response(resultData=resultData)
    return response

@app.route('/addExpense', methods=['POST'])
def addExpense():
    if request.method == "POST":
        expense = json.loads(request.data)
        sql = "INSERT INTO expenses(email,category,amount,timestamp)
VALUES('{}','{}',{},'{}')".format(expense['email'],expense['category'],expense['a
mount'], datetime.now().strftime('%Y-%m-%d %H:%M:%S'))
        out = ibm_db.exec_immediate(conn, sql)
        response = json_response(200)
        return response

# @app.route('/limitExceed')
# def limitExceed():
#     email = request.args.get('email')
#     SendDynamic()
#     return json_response(200)

@app.route('/personalData')
def personalData():
    email = request.args.get('email')
    sql = "select * from  personal_info where email='{}'".format(email)
    out = ibm_db.exec_immediate(conn, sql)
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    document = ibm_db.fetch_assoc(out)
    resultData = {
        'name' : document['NAME'],
        'email' : email,
        'walletlimit':document['WALLETLIMIT'],
        'gender': document['GENDER'],
        'location': document['LOCATION'],
        'phone' : document['PHONE'],

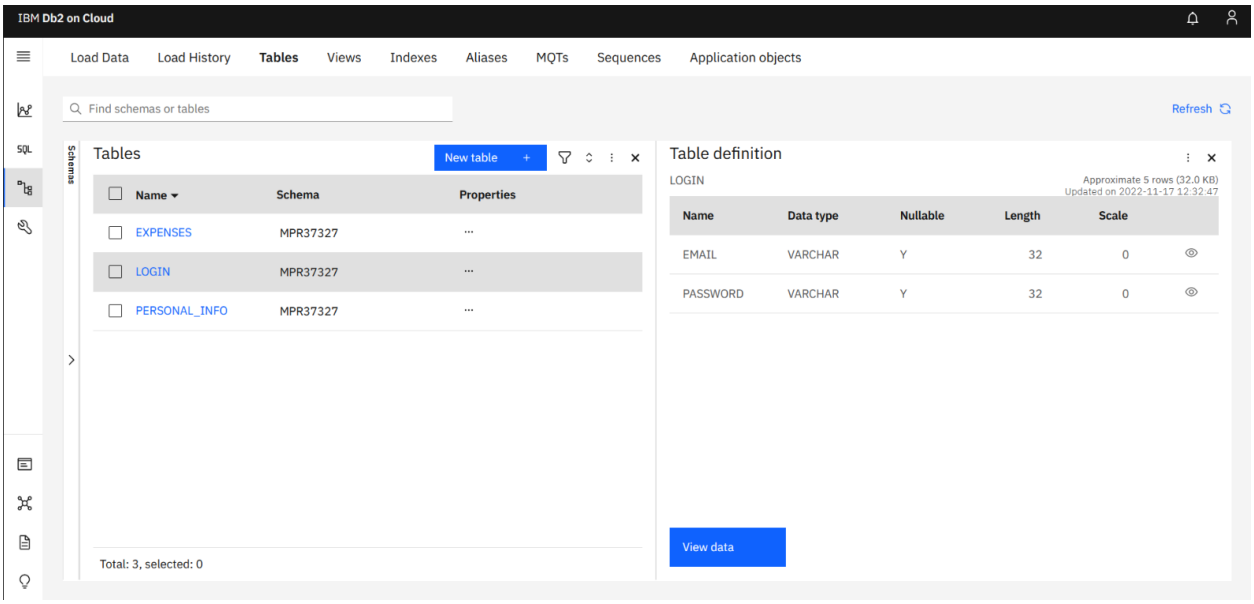
    }
    sql = "select * from login where email='{}'".format(email)
    out = ibm_db.exec_immediate(conn, sql)
    document = ibm_db.fetch_assoc(out)
    resultData['password'] = document['PASSWORD']
    response = json_response(resultData=resultData)
    return response

@app.route('/updateProfile',methods=['POST'])
def updateProfile():
    if request.method == "POST":
        credentials = json.loads(request.data)
        sql = "UPDATE login SET password='{}' where
email='{}'".format(credentials['password'],credentials['email'])
        out = ibm_db.exec_immediate(conn, sql)
        print("Cred:",credentials)
        sql = "UPDATE personal_info SET name='{}', walletlimit={}, gender='{}',
location='{}', phone='{}' where email='{}'
".format(credentials['name'],credentials['walletlimit'],credentials['gender'],cre
dentials['location'],credentials['phone'], credentials['email'])
        out = ibm_db.exec_immediate(conn, sql)
        response = json_response(200)
        return response
    print("hai out")

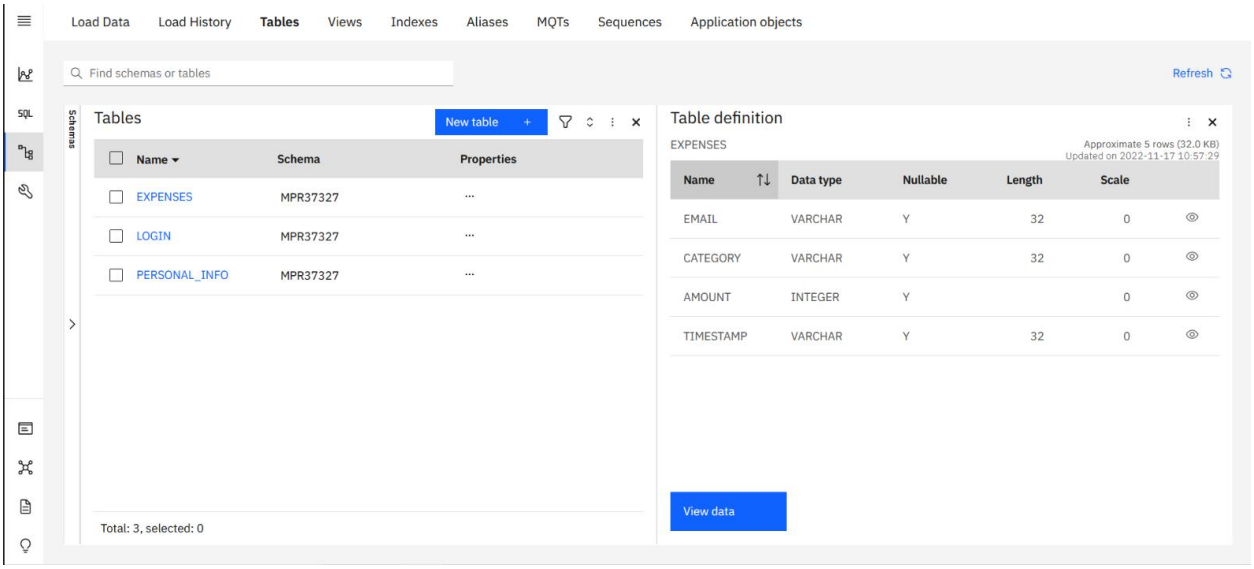

# Running app
if __name__ == '__main__':
    app.run(debug=True)
```

DATABASE SCREENSHOTS :

1 . LOGIN TABLE



2 . EXPENSES TABLE



3 . PERSONAL INFO TABLE