Datascience-0

ex00 create database and docker composer first going to the folder ex and connect with terminal

Install PostgreSQL with terminal

sudo apt update sudo apt install postgresql postgresql-contrib

Verify PostgreSQL Installation psql –version

Start the PostgreSQL Server - Option 1: Using PostgreSQL Locally

sudo systemctl start postgresql # Linux brew services start postgresql # macOS

To check if it's running:

sudo systemctl status postgresql

Log in to PostgreSQL using the credentials provided:

psql -U your_login -d piscineds -h localhost -W Enter "mysecretpassword" when prompted.

Connect to PostgreSQL (As your user)

sudo -u postgres psql

coming sql terminal piscineds=#

with sql terminal create database

CREATE DATABASE piscineds;

create user with my login

CREATE USER arajapak WITH PASSWORD 'mysecretpassword'

Grant privillege

GRANT ALL PRIVILEGES ON DATABASE piscineds TO arajapak;

connect to postgresql

```
psql_u arajapak -d piscineds -h localhost -W
aftre coming sql terminal and for quit \q
Switch to PostgreSQL superuser (postgres)
```

Option 2: Using Docker Compose(optional) install docker and docker composer with terminal

sudo apt install docker docker-compose

verification installation ok or not

```
docker -version
docker-compose --version
```

Navigation to you working directory cd ~/datasciens-0/ex00 after inside folder

• Create a docker-compose.yml file with the following contents:

```
version: '3.1'

services:
db:
image: postgres
restart: always
environment:
POSTGRES_USER: your_login
POSTGRES_PASSWORD: mysecretpassword
POSTGRES_DB: piscineds
ports:
- "5432:5432"
```

for exit ctrl.x and enter

Run the following command to start PostgreSQL inside Docker:

```
docker-compose up -d
checking running
docker ps
```

* si problem solution with terminal run docker root sudo docker-compose up -d

add yourself the docker group replace your name with your actual login

sudo username -aG docker arajapak

reset you vm

Once the container is running, connect to the database with:

```
psql -U your_login -d piscineds -h localhost -W
```

psql -U arajapak -d piscineds -h localhost -W

Verifying the Connection you can check if the database is running with:

\ld # Lists available databases \dt # Lists tables inside the current database

```
si problem port - solution
changement with yml file
ports:
    - "5433:5432"
docker-compose up -d
psql -U arajapak -d piscineds -h localhost -p 5433 -W
database exit chek
SELECT current_database();
user exit
SELECT current_user;
```

if piscineds already exists (\l confirms it).

sudo -u postgres psql -c "\l"