DBT TASK 2

Creat requirements.txt

```
Frequirements.txt

You, 20 hours ago | 1 author (You)

1 dbt-adapters==1.4.0

2 dbt-cormmon==1.7.0

3 dbt-core==1.8.4

4 dbt-extractor==0.5.1

5 dbt-postgres==1.8.2

6 dbt-semantic-interfaces==0.5.1

You, 20 hours

7

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS

Collecting pip
Using cached pip-24.2-py3-none-any.whl.metadata (3.6 kB)
Using cached pip-24.2-py3-none-any.whl (1.8 MB)
Installing collected packages: pip
Attempting uninstall: pip
Found existing installation: pip 24.0
Uninstalling pip-24.0:
Successfully uninstalled pip-24.0
Successfully installed pip-24.2

>PS D:\Altera\AnggiSDC\Alterra\Demo-DBT>
```

Dan gambar di bawah adalah di gunakan untuk setup project dan configuration DBT

```
models:

my_project:

# Config indicated by + an

stg:

+materialized: view
+schema: _stg

+database: store
int:

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```

Setup DBT profile

Profile.yml

```
dbt-profiles > ! profiles.yml
You, 21 hours ago | 1 author (You
my_project:
coutputs:
dev:
type: postgres
threads: 1
host: localhost
port: 5432
user: postgres
user: postgres
pass: pass
dbname: store
schema: public

target: dev
```

Gambar di atas adalah konfigurasi penting dalam proyek yang mengatur bagaimana DBT terhubung ke database.

Dalam kasus di atas dtabase di beri nama store dengan skema public dengan port 5432. Setelah itu dapat dilakukan dengan perintah seperti pada gambar di bawah ini :

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS

PS D:\Altera\AnggiSDC\Alterra\Demo-DBT> $env:dbt_profiles_DIR = "$(pwd)/dbt-profiles"

PS D:\Altera\AnggiSDC\Alterra\Demo-DBT> echo $env:dbt_profiles_DIR

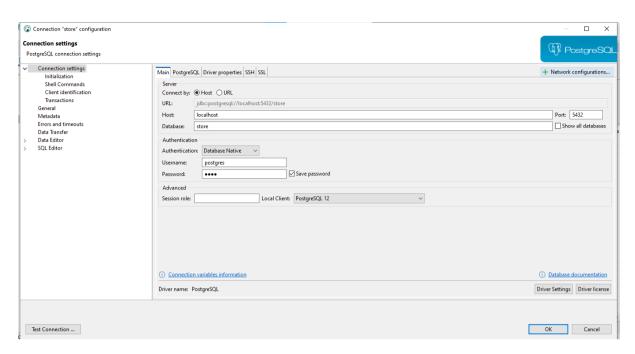
D:\Altera\AnggiSDC\Alterra\Demo-DBT/dbt-profiles

PS D:\Altera\AnggiSDC\Alterra\Demo-DBT>
```

Setelah itu kita coba untuk melakukan creat postgre docker compose

Kita bias lakukan dengan cara perintah : docker compose up -d

Setelah itu kita lakukan connection dengan PostgreSQL lakukan setting seperti gambar di bawah ini:



Pastikan konfigurasi nya sama seperti yang sudah di tentukan sebelumnya di profiles.yml dan docker compose.yml.

Konfigurasi ini mendefinisikan tiga layanan dalam kluster citus seperti master, worker, manager.

Master: layanan utama sebagai koordinasi dan eksekusi query untuk seluruh kluster

Worker: node tambahan untuk melakukan eksekusi query di subset data yang di bagi oleh master

Manager: mengelola keanggotaan dalam kluster citus dan berinteraksi dengan docker untuk konfigurasi.

Defining source

Lakukan script di bawah ini di file raw schema.yml

version: 2
sources:
- name: store

database: store

schema: public

tables:

- name: brands

columns:

- name: brand_id

description: "Unique identifier for each brand"

tests:

```
- unique
    - not_null
  - name: name
   description: "Name of the brand"
   tests:
    - not_null
- name: products
 columns:
  - name: product_id
   description: "Unique identifier for each product"
   tests:
    - unique
    - not_null
  - name: brand_id
   description: "Foreign key referencing brands"
   tests:
    - relationships:
      to: source('store', 'brands')
      field: brand_id
  - name: name
   description: "Name of the product"
   tests:
    - not_null
  - name: price
   description: "Price of the product"
   tests:
    - not_null
- name: orders
 columns:
```

```
- name: order_id
   description: "Unique identifier for each order"
   tests:
    - unique
    - not_null
  - name: order_date
   description: "Date and time the order was placed"
   tests:
    - not_null
- name: order_details
 columns:
  - name: order_detail_id
   description: "Unique identifier for each order detail"
   tests:
    - unique
    - not_null
  - name: order_id
   description: "Foreign key referencing orders"
   tests:
    - relationships:
      to: source('store', 'orders')
      field: order_id
  - name: product_id
   description: "Foreign key referencing products"
   tests:
    - relationships:
      to: source('store', 'products')
      field: product_id
  - name: quantity
   description: "Quantity of the product ordered"
```

```
tests:
- not_null
- name: price
description: "Price of the product in the order"
tests:
- not_null
```

CREAT POSTGRE DOCKER COMPOSE

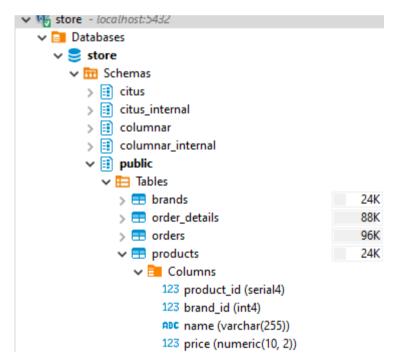
Lakukan script dibawah ini di dalam file docker-compose.yml

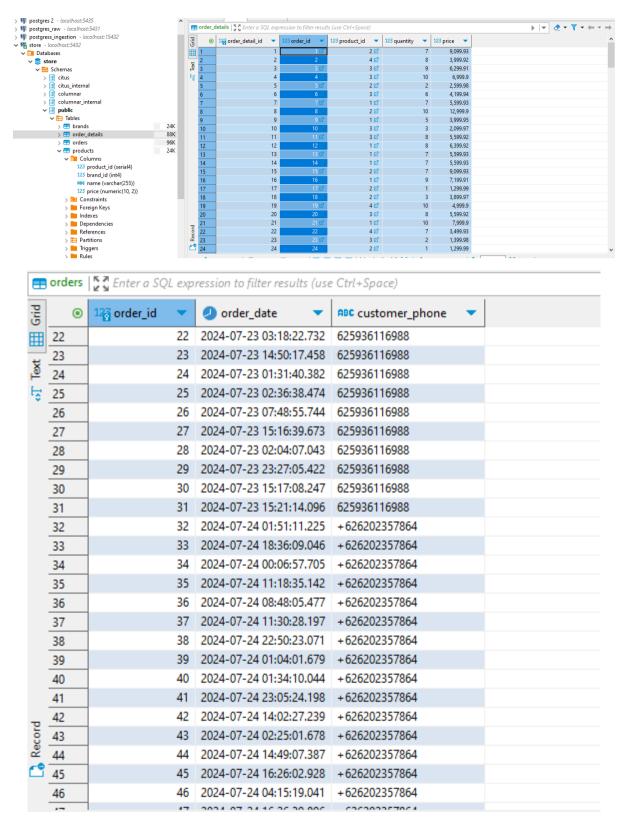
```
docker-compose.yml
     You, 21 hours ago | 1 author (You)
     version: '3'
     services:
       master:
         container name: "${COMPOSE PROJECT NAME:-citus} master"
         image: "citusdata/citus:12.0.0"
         ports:
          - "${COORDINATOR EXTERNAL PORT:-5432}:5432"
          - "com.citusdata.role=Master"
         environment: &AUTH
           - POSTGRES_PASSWORD=pass
           - POSTGRES USER=postgres
           - POSTGRES DB=store
            - PGUSER=postgres
            - POSTGRES_HOST_AUTH_METHOD=trust
         networks:

    postgres-network

            - ./citus-db-data/:/var/lib/postgresql/data/
           - ./init.sql:/docker-entrypoint-initdb.d/init.sql
       worker:
         image: "citusdata/citus:12.0.0"
         labels:
          - "com.citusdata.role=Worker"
         depends_on:
           - manager
         environment: *AUTH
         command: "/wait-for-manager.sh"
```

LALU KITA LIAT DI DBEAVER





Kesimpulan dari gambar di atas belum rapih, masih terdapat no telfon yang menggunakan + dan tidak. Maka dari itu harus di buat menjadi lebih rapih lagi agar lebih mudah untuk di proses.