task 3

docker compose

```
$ docker compose up -d
[+] Building 0.0s (0/0)
[+] Running 5/5

Vetwork dbt-task3_default Created

Vetwork dbt-task3_postgres-network Created

Container dbt-task3_master Started

Container dbt-task3_manager Started

Container dbt-task3_worker-1 Started
```

```
version: '3'
 ∨ 📹 dbt-demo
    docker-compose.yml
                                                             container_name: "${COMPOSE_PROJECT_NAME:-citus}_master"
                                                              - "com.citusdata.role=Master"
                                                               - POSTGRES_USER=postgres
                                                              - POSTGRES_DB=store
                                                             - PGUSER=postgres
                                                               - POSTGRES_HOST_AUTH_METHOD=trust

    postgres-network

                                                           - ./citus-db-data/:/var/lib/postgresql/data/
- ./init.sql:/docker-entrypoint-initdb.d/init.sql
                                                              - "com.citusdata.role=Worker"
                                                               - manager
                                                           environment: *AUTH
                                                           container_name: "${COMPOSE_PROJECT_NAME:-citus}_manager"
                                                             - "${DOCKER_SOCK:-/var/run/docker.sock}:/var/run/docker.sock"
- ./citus-healthcheck:/healthcheck
OUTLINE
                                                             environment: *AUTH
```

docker ps

\$ docker ps						
CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
dfd79aad15ef	citusdata/citus:12.0.0	"docker-entrypoint.s"	6 seconds ago	Up 5 seconds (health: starting)	5432/tcp	dbt-tas
84d30df3befa	citusdata/membership-manager:0.3.0	"python -u ./manager"	6 seconds ago	Up 5 seconds (unhealthy)		dbt-tasl
d77596c2783d	citusdata/citus:12.0.0	"docker-entrypoint.s"	7 seconds ago	Up 6 seconds (health: starting)	0.0.0.0:5432->5432/tcp	dbt-tasl

active venv

```
$ source .venv/Scripts/activate
(.venv)
```

install dbt postgres

```
$ pip install dbt-postgres
Collecting dbt-postgres
  Downloading dbt_postgres-1.7.1-py3-none-any.whl (28 kB)
Collecting psycopg2-binary~=2.8
  Downloading psycopg2_binary-2.9.9-cp310-cp310-win_amd64.whl (1.2 MB)
                                             - 1.2/1.2 MB 2.2 MB/s eta 0:00:00
Collecting dbt-core==1.7.1
  Downloading dbt_core-1.7.1-py3-none-any.whl (1.0 MB)
                                            - 1.0/1.0 MB 2.2 MB/s eta 0:00:00
Collecting agate
  Downloading agate-1.9.0-py2.py3-none-any.wh1 (94 kB)
                                            - 95.0/95.0 kB 2.7 MB/s eta 0:00:00
  Downloading agate-1.7.1-py2.py3-none-any.whl (97 kB)
                                            - 97.1/97.1 kB 5.4 MB/s eta 0:00:00
Collecting typing-extensions>=3.7.4
 Using cached typing_extensions-4.8.0-py3-none-any.whl (31 kB)
Collecting minimal-snowplow-tracker~=0.0.2
 Using cached minimal_snowplow_tracker-0.0.2-py3-none-any.whl
Collecting pytz>=2015.7
 Downloading pytz-2023.3.post1-py2.py3-none-any.whl (502 kB)
```

requirements

```
$ pip freeze | grep dbt
dbt-core==1.7.2
dbt-extractor==0.5.0
dbt-postgres==1.7.2
dbt-semantic-interfaces==0.4.1
(.venv)
```

\$ pip freeze | grep dbt >> requirements.txt
(.venv)

dbt-init

```
$ dbt init my_project
10:36:31 Running with dbt=1.7.1
10:36:31
Your new dbt project "my_project" was created!
For more information on how to configure the profiles.yml file,
please consult the dbt documentation here:
 https://docs.getdbt.com/docs/configure-your-profile
One more thing:
Need help? Don't hesitate to reach out to us via GitHub issues or on Slack:
 https://community.getdbt.com/
Happy modeling!
10:36:31 Setting up your profile.
The profile my_project already exists in C:\Users\user\.dbt\profiles.yml. Continue and overwrite it? [y/N]: y
Which database would you like to use?
[1] postgres
(Don't see the one you want? https://docs.getdbt.com/docs/available-adapters)
Enter a number: 1
host (hostname for the instance): localhost
port [5432]: 5432
user (dev username): postgres
pass (dev password):
dbname (default database that dbt will build objects in): store
schema (default schema that dbt will build objects in): public
threads (1 or more) [1]: 1
10:37:17 Profile my_project written to C:\Users\user\.dbt\profiles.yml using target's profile_template.yml and y
```

• dbt-profile

```
$ mkdir dbt-profiles
touch dbt-profiles/profiles.yml
export DBT_PROFILES_DIR=$(pwd)/dbt-profiles
(.venv)
```

```
dbt-demo > dbt-profiles > *** profiles.yml
       my_project:
         outputs:
            dev:
              type: postgres
              threads: 1
             host: localhost
              port: 5432
             user: postgres
              pass: pass
              dbname: store
 12
              schema: public
 13
 14
         target: dev
```

schema

```
My Code > dbt-task3 > my_project > models > store > ! 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
```

dbt -project-config

• public tables

create tables

```
-- Create the brands table

CREATE TABLE brands (

brand_id SERIAL PRIMARY KEY,

name VARCHAR(255) NOT NULL
);

-- Create the products table

CREATE TABLE products (

product_id SERIAL PRIMARY KEY,

brand_id INT REFERENCES brands(brand_id),

name VARCHAR(255) NOT NULL,

price DECIMAL(10, 2) NOT NULL
);

-- Create the orders table

CREATE TABLE orders (

order_id SERIAL PRIMARY KEY,

order_date TIMESTAMP DEFAULT current_timestamp,

customer_phone VARCHAR(15)
);

-- Create the order_details table

CREATE TABLE order_details (

order_detail_id SERIAL PRIMARY KEY,

order_id INT REFERENCES orders(order_id),

stics 1 ×

Value

d Rows 7

-- Create the brands table

CREATE TABLE brands(

brand_id SERIAL PRIMARY KEY,
```

• dbt run

```
11:38:16
11:38:16
Finished running 1 table model in 0 hours 0 minutes and 0.57 seconds (0.57s).
11:38:16
11:38:16
Completed successfully
11:38:16
11:38:16
Done. PASS=1 WARN=0 ERROR=0 SKIP=0 TOTAL=1
(.venv)
```

• dbt test

```
11:39:51 Finished running 20 tests in 0 hours 0 minutes and 2.73 seconds (2.73s).
11:39:51
11:39:51 Completed successfully
11:39:51
11:39:51 Done. PASS=20 WARN=0 ERROR=0 SKIP=0 TOTAL=20
(.venv)
```

Tabel daily_sales

