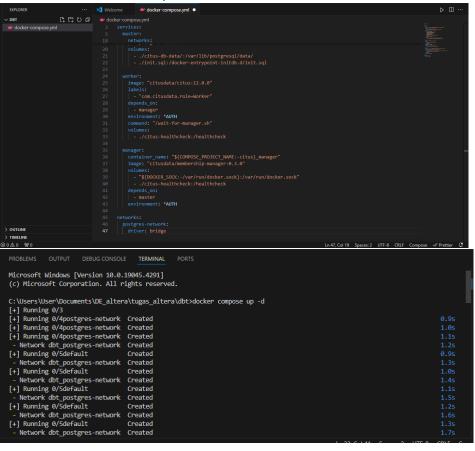
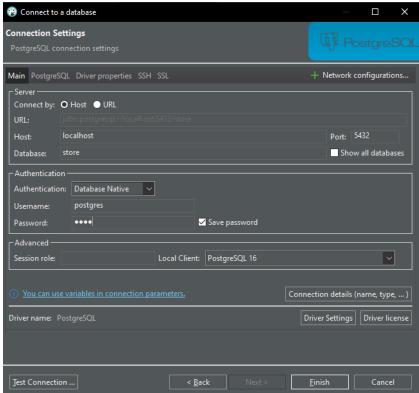
1. Create and run docker compose



2. Connect to postgres



3. Create and activate veny

(.venv) C:\Users\User\Documents\DE_altera\tugas_altera\dbt\.venv>

4. Install dbt postgres

```
TERMINAL
(.venv) C:\Users\User\Documents\DE_altera\tugas_altera\dbt>pip install dbt-postgres
Collecting dbt-postgres
 Using cached dbt_postgres-1.7.13-py3-none-any.whl (28 kB)
Collecting psycopg2-binary~=2.8
 Using cached psycopg2_binary-2.9.9-cp310-cp310-win_amd64.whl (1.2 MB)
Collecting dbt-core==1.7.13
 Using cached dbt_core-1.7.13-py3-none-any.whl (1.0 MB)
Collecting agate
 Downloading agate-1.10.1-py2.py3-none-any.whl (95 kB)
                                             95.4/95.4 kB 1.1 MB/s eta 0:00:00
Collecting pathspec<0.12,>=0.9
 Using cached pathspec-0.11.2-py3-none-any.whl (29 kB)
Collecting agate
 Using cached agate-1.7.1-py2.py3-none-any.whl (97 kB)
Collecting packaging>20.9
 Using cached packaging-24.0-py3-none-any.whl (53 kB)
```

5. Buat list package ke requirements.txt dan install requirements.txt

```
(.venv) C:\Users\User\Documents\DE_altera\tugas_altera\dbt>pip freeze | findstr dbt >> requirements.txt

(.venv) C:\Users\User\Documents\DE_altera\tugas_altera\dbt>pip install -r requirements.txt

Requirement already satisfied: dbt-core==1.7.13 in c:\users\user\documents\de_altera\tugas_altera\dbt\.venv\lib\site-packages (from -r requirements.txt (line 1)) (1.7.13)

Requirement already satisfied: dbt-extractor==0.5.1 in c:\users\user\documents\de_altera\tugas_altera\dbt\.venv\lib\site-pack ages (from -r requirements.txt (line 2)) (0.5.1)

Requirement already satisfied: dbt-postgres==1.7.13 in c:\users\user\documents\de_altera\tugas_altera\dbt\.venv\lib\site-pack ages (from -r requirements.txt (line 3)) (1.7.13)

Requirement already satisfied: dbt-postgres==0.4.4 in c:\users\user\documents\de_altera\tugas_altera\dbt\.venv\lib\site-pack ages (from -r requirements.txt (line 3)) (1.7.13)

Requirement already satisfied: dbt-semantic-interfaces==0.4.4 in c:\users\user\documents\de_altera\tugas_altera\dbt\.venv\lib\site-pack ages (from -r requirements.txt (line 4)) (0.4.4)

Ln 33, Col 41 Spaces: 2 UTF-8 CRLF Com
```

6. Setup DBT project

```
(.venv) C:\Users\User\Documents\DE_altera\tugas_altera\dbt>pip freeze | findstr dbt >> requirements.txt

(.venv) C:\Users\User\Documents\DE_altera\tugas_altera\dbt>pip install -r requirements.txt

Requirement already satisfied: dbt-core==1.7.13 in c:\users\user\documents\de_altera\tugas_altera\dbt\.venv\lib\site-packages
(from -r requirements.txt (line 1)) (1.7.13)

Requirement already satisfied: dbt-extractor==0.5.1 in c:\users\user\documents\de_altera\tugas_altera\dbt\.venv\lib\site-pack
ages (from -r requirements.txt (line 2)) (0.5.1)

Requirement already satisfied: dbt-postgres==1.7.13 in c:\users\user\documents\de_altera\tugas_altera\dbt\.venv\lib\site-pack
ages (from -r requirements.txt (line 3)) (1.7.13)

Requirement already satisfied: dbt-semantic-interfaces==0.4.4 in c:\users\user\documents\de_altera\tugas_altera\dbt\.venv\lib
\site-packages (from -r requirements.txt (line 4)) (0.4.4)

Ln 33, Col 41 Spaces: 2 UTF-8 CRLF Com
```

7. Setup DBT Profile

(.venv) C:\Users\User\Documents\DE_altera\tugas_altera\dbt>setup_dbt_profiles.bat 1 file(s) copied.

note: saya telah menyimpan perintah" yang diperlukan kedalam file setup_dbt_profiles.bat agar bisa dijalankan di CMD Prompt

8. Set profiles.yml

```
docker-compose.yml
                         setup_dbt_profiles.bat
                                                    ! profiles.yml ×
dbt-profiles > ! profiles.yml
       my_project:
         outputs:
            dev:
              type: postgres
              threads: 1
              host: localhost
              port: 5432
  8
              user: postgres
              pass: pass
              dbname: store
 11
              schema: public
 12
         target: dev
```

9. Set dbt_project.yml.

10. Mendefinisikan Sumber

```
EXPLORER
                                                                                                 ! profiles.yml ! dbt_project.yml ! source_postgre.yml 	imes
                                        my_project > models > store > ! source_postgre.yml
DBT
> citus-db-data
> citus-healthcheck
                                                    database: store
schema: public

√ my_project

                                                            - name: brand_id
description: "Unique identifier for each brand"
 ∨ models\store
  my_first_dbt_model.sql
                                                            - unique
- not_null
  my_second_dbt_model.sql
  ! source_postgre.yml

✓ seeds

                                                            description: "Name of the brand" tests:
- not_null
  gitkeep
 > snapshots
 > tests
 gitignore
 ! dbt_project.yml
                                                            - name: product_id
| description: "Unique identifier for each product"

    README.md

docker-compose.yml

≡ requirements.txt

setup_dbt_profiles.bat
OUTLINE
TIMELINE
```

11. Creating a Models

- Define the schema.yml

- Define Stg.sql

```
my_project > models > store > 🧧 stg_brands.sql
      select
           brand id::int brand id
           , name as brand name
  3
      from {{source('store', 'brands')}}
my_project > models > store > = stg_order_details.sql
  1 select
           order detail id::int as order detail id
           , order_id::int as order_id
           , product_id:: int product_id
            , quantity
           , price
   6
   7 from {{ source('store', 'order_details')}}
 my_project > models > store > 🛢 stg_order.sql
        select
           order_id::int as order id
           , order_date::timestamp as order date
           , customer_phone
        from {{ source('store','orders')}}
   5
my_project > models > store > = stg_products.sql
       select
           product id::int as product id
           , brand_id::int as brand_id
           , name as product_name
           , price as product_price
   6 from {{ source('store', 'products')}}
```

12. Lakukan dbt run

```
(.venv) C:\Users\User\Documents\DE altera\dbt\my project>dbt run
05:32:45 Running with dbt=1.7.13
05:32:46 Registered adapter: postgres=1.7.13
05:32:47
      Found 17 tests, 6 models, 4 sources, 0 exposures, 0 metrics, 401 macros, 0 groups, 0 semantic models
05:32:47
05:32:48 Concurrency: 1 threads (target='dev')
05:32:48
05:32:48 1 of 6 START sql table model public_public.stg_brands ...... [RUN]
05:32:49 2 of 6 OK created sql table model public_public.stg_order_details ..................[SELECT 435 in 0.23s]
05:32:50 3 of 6 OK created sql table model public_public.stg_orders ........................[SELECT 435 in 0.22s]
05:32:50 5 of 6 START sql table model public_analytics.int_order_task2 ...... [RUN]
05:32:50 5 of 6 OK created sql table model public_analytics.int_order_task2 ...... [SELECT 435 in 0.35s]
05:32:51 6 of 6 OK created sql table model public_analytics.int_products ....... [SELECT 4 in 0.26s]
05:32:51
05:32:51 Finished running 6 table models in 0 hours 0 minutes and 3.56 seconds (3.56s).
05:32:51
05:32:51 Completed successfully
05:32:51
05:32:51 Done. PASS=6 WARN=0 ERROR=0 SKIP=0 TOTAL=6
(.venv) C:\Users\User\Documents\DE_altera\dbt\my_project>
```

13. Lakukan dbt test

```
(.venv) C:\Users\User\Documents\DE_altera\dbt\my_project>dbt test
    Running with dbt=1.7.13
    Registered adapter: postgres=1.7.13
05:35:05 Found 17 tests, 6 models, 4 sources, 0 exposures, 0 metrics, 401 macros, 0 groups, 0 semantic models
05:35:05
05:35:06 Concurrency: 1 threads (target='dev')
05:35:06

    05:35:06
    1 of 17 PASS source_not_null_store_brands_brand_id
    [PASS 05:35:06

    2 of 17 START test source_not_null_store_brands_name
    [RUN]

                                            in 0.25s]
in 0.21s]
05:35:06 3 of 17 START test source_not_null_store_order_details_order_detail_id .......[RUN]
in 0.17sl
05:35:07 5 of 17 START test source_not_null_store_order_details_quantity ...... [RUN]
in 0.22s1
in 0.23s]
in 0.23sl
in 0.28s]
05:35:08 9 of 17 START test source_not_null_store_products_price .......[RUN]
in 0.20s]
05:35:08 11 of 17 START test source_relationships_store_order_details_order_id__order_id__source_store_orders_ [RUN]
05:35:08 11 of 17 PASS source_relationships_store_order_details_order_id_order_id_source_store_orders_ [PASS in 0.20s
```