Nama : Kharisma Novi Chandramukti

**Kelas/Batch**: Data Engineering 4

## Hand on recording DBT Day 2

- Menjalankan docker compose

```
(.venv) rismanovic@LAPTOP-U6LIFQG1:~/unit2/dbt-demo$ docker compose up -d
  RN[0000] /home/rismanovic/unit2/dbt-demo/docker-compose.yml: `version` is obsolete
 ✓ Network dbt-demo_postgres-network Created
 ✓ Network dbt-demo_default
 ✓ Container dbt-demo_master
 ✓ Container dbt-demo_manager
✓ Container dbt-demo-worker-1
  □ ✓ S <u>dbt-demo</u>
                                                                                 Running (3/3)
                                                                                                                      8.38% 5 minutes ago
                    worker-1
  Running
                                                                                                                      0.22% 5 minutes ago
                    44055b33c604 🗇
  citusdata/membership-manager:0.3.0 Running
                                                                                                                       0.9% 5 minutes ago
                    65315764afbc 🫅
                    dbt-demo_master
  7.26% 5 minutes ago
                                                                                Runnina
                    02f5d3449e6c 🗇
```

- Membuat setup configuration model pada my\_project dengan model \_stg dan \_int

```
✓ models
✓ _int
■ daily_sales.sql
✓ _stg
! raw_schema.yml
□ stg_brands.sql
□ stg_order_details.sql
□ stg_orders.sql
□ stg_products.sql
U
□ stg_products.sql
U
! stg_schema.yml
```

Masing – masing stg memiliki definisi yang sesuai dengan tabel public pada postgresql, sebagai berikut :

o stg\_brands.sql

```
dbt-demo > my_project > models > _stg > \equiv stg_brands.sql

1     SELECT
2     brand_id::int as brand_id
3     , name as brand_name
4     from {{ source('store', 'brands')}}
```

o stg\_order\_details.sql

```
dbt-demo > my_project > models > _stg > \exists stg_order_details.sql

1     SELECT
2     order_detail_id:: int as order_detail_id
3     , order_id::int as order_id
4     , product_id:: int as product_id
5     , quantity as order_qty
6     , price as unit_sales
7     from {{ source('store', 'order_details')}}
```

o stg\_orders.sql

```
dbt-demo > my_project > models > _stg > stg_orders.sql

1     SELECT
2     order_id:: int as order_id
3     , order_date:: timestamp as order_date
4     , customer_phone
5     from {{source ('store', 'orders')}}
```

stg\_products.sql

```
dbt-demo > my_project > models > _stg > \bigsquare stg_products.sql

1     SELECT
2     product_id:: int as product_id
3     , brand_id:: int as brand_id
4     , name as product_name
5     , price as product_price
6     from {{ source ('store', 'products')}}
```

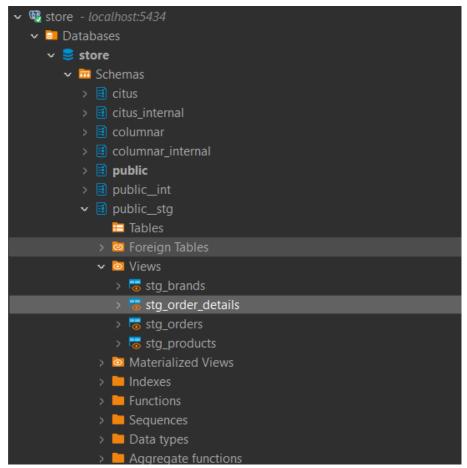
Setelah itu membuat stagging pada model yang sudah dibuat :

```
dbt-demo > my_project > models > _stg > ! stg_schema.yml
      - name: stg_brands
         description: "brands stagging"
       name: stg_products
        description: "products stagging"
             - not_null
- unique
          - name: brand_id
       - name: stg_orders
        description: "orders stagging"
          - name: order_id
              - not null
        - name: stg order details
         description: "order details stagging"
               - not_null
```

Melakukan dbt run untuk proses dari citus dbt untuk menjalankan model – model yang sudah dibuat serta melakukan dbt test untuk cek apakah ada error atau tidak :

```
02:54:46 Running with dbt=1.7.0
 02:54:46 Registered adapter: postgres=1.7.0
02:54:46 Found 5 models, 26 tests, 4 sources, 0 exposures, 0 metrics, 414 macros, 0 groups, 0 semantic models
 02:54:46
02:54:46 Concurrency: 1 threads (target='dev')
TE VIEW in 0.09sl
02:54:47 3 of 5 0K created sql view model public_stg.stg order details
02:54:47 4 of 5 START sql view model public_stg.stg.orders [RUN]
02:54:47 4 of 5 START sql view model public_stg.stg.orders [RUN]
02:54:47 5 of 5 START sql view model public_stg.stg.stg.orders [RUN]
02:54:47 5 of 5 START sql view model public_stg.stg.products [RUN]
 02:54:47 Finished running 1 citus_materialization model, 4 view models in 0 hours 0 minutes and 0.74 seconds (0.74s).
 02:54:47
 02:54:47 Completed successfully
 02:54:47 Done. PASS=5 WARN=0 ERROR=0 SKIP=0 TOTAL=5
(.verv) rismanovic@LAPTOP-U6LIFQG1:-/unit2/dbt-demo/my_project$ dbt test
03:04:51 Running with dbt=1.7.0
03:04:51 Registered adapter: postgres=1.7.0
03:04:51 Found 5 models, 26 tests, 4 sources, 0 exposures, 0 metrics, 414 macros, 0 groups, 0 semantic models
 03:04:51 Concurrency: 1 threads (target='dev')
03:04:51
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03:04:51
1 of 26 START test not null_stg brands brand_id
03:04:51
2 of 26 START test not null_stg order_details_order_detail_id
03:04:51
2 of 26 PASS not null_stg_order_details_order_detail_id
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03:04:52 11 of 26 PASS source_not_null_store_orders_order_id
03:04:52 12 of 26 PASS source_not_null_store_orders_order_id
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                                                                                                                                                                         in 0.03s]
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                                                                                                                                                                        in 0.03sl
03:04:52 18 of 26 START test source relationships store products brand id brand id source store brands [RUN]
03:04:52 18 of 26 PASS source relationships store products brand id brand id source store brands [PASS in 0.03s]
in 0.03sl
03:04:52 19 of 26 PASS source unique store brands brand id .....
03:04:52 20 of 26 START test source_unique_store_order_details_order_detail_id
03:04:52 20 of 26 PASS source_unique_store_order_details_order_detail_id
03:04:52 21 of 26 START test source_unique_store_orders_order_id
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                                                                                                                                                              [RUN]
                                                                                                                                                                        in 0.03s]
03:04:52
03:04:52 Finished running 26 tests in 0 hours 0 minutes and 1.06 seconds (1.06s).
03:04:52
03:04:52
                Done. PASS=26 WARN=0 ERROR=0 SKIP=0 TOTAL=26
```

Pada dbeaver didapatkan hasil sebagai berikut :



Dengan data yang sama persis dengan tabel public namun berbeda nama tabelnya saja, pada tabel public\_stg tabel yang dihasilkan terdapat pada views dikarenakan pada saat setup configuration materialized diatur ke view

