

Nama : Kharisma Novi Chandramukti





















Kelas/Batch : Data Engineering 4

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### Hand on recording DBT Day 3

- Menjalankan docker compose up

```
(.venv) rismanovic@LAPTOP-U6LIFQGI:~/unit2/dbt-demo$ docker compose up -d
WARN[0000] /home/rismanovic/unit2/dbt-demo/docker-compose.yml: 'version' is obsolete
[+] Running 5/5
 ✓ Network dbt-demo_postgres-network Created 0.1s
 ✓ Network dbt-demo_default Created 0.1s
 ✓ Container dbt-demo_master Started 1.0s
 ✓ Container dbt-demo_manager Started 1.3s
 ✓ Container dbt-demo-worker-1 Started 1.5s
```

<input type="checkbox"/>	▼		dbt-demo	Running (3/3)	8.38%	5 minutes ago			
<input type="checkbox"/>			worker-1 4405b33c604 	Running	0.22%	5 minutes ago			
<input type="checkbox"/>			dbt-demo_manager 65315764afbc 	Running	0.9%	5 minutes ago			
<input type="checkbox"/>			dbt-demo_master 02f5d3449e6c 	Running <a href="#">5434:5432</a> 	7.26%	5 minutes ago			

- Membuat schema \_fct dan mart

```
! dbt_project.yml M X
dbt-demo > my_project > ! dbt_project.yml
33 models:
34 my_project:
35 # Config indicated by + and applies to all files
36 _stg:
37   +materialized: view
38   +schema: _stg
39   +database: store
40 _int:
41   +materialized: table
42   +schema: _int
43   +database: store
44 _fct:
45   +materialized: table
46   +schema: _fct
47   +database: store
48 mart:
49   +materialized: table
50   +schema: mart
51   +database: store
52
```

- Membuat file dalam folder \_int yang berisi join file dari folder \_stg maupun int

```
int_order_details.sql U X int_products.sql U int_orders.sql U X
dbt-unit2/dbt-demo/my_project/models/_int/int_order_details.sql • Untracked
1 select *
2 from {{ ref('stg_orders')}}
```

```
int_order_details.sql U int_products.sql U X int_orders.sql U
dbt-demo > my_project > models > _int > int_products.sql
1 select
2     products.product_id
3     , brands.brand_id
4     , brands.brand_name
5     , products.product_name
6     , products.product_price
7 from {{ref('stg_products')}} as products
8 left join {{ ref('stg_brands')}} as brands
9     on products.brand_id = brands.brand_id
10
```

```
int_order_details.sql U X ! int_schema.yml U ! dbt_project.yml M
dbt-demo > my_project > models > _int > int_order_details.sql
1 select
2     details.order_detail_id
3     , details.order_id
4     , orders.order_date
5     , orders.customer_phone
6     , products.brand_id
7     , products.brand_name
8     , details.product_id
9     , products.product_name
10    , products.product_price
11    , details.order_qty
12    , details.unit_sales
13 from {{ ref('stg_order_details')}} as details
14 left join {{ref('int_orders')}} as orders
15     on details.order_id = orders.order_id
16 left join {{ ref('int_products')}} as products
17     on details.product_id = products.product_id
18
```

- Membuat testing dengan file int\_schema.yml

```
int_order_details.sql U int_schema.yml U X
dbt-demo > my_project > models > _int > ! int_schema.yml
1  version: 2
2
3  models:
4    - name: int_order
5      columns:
6        - name: order_id
7          tests:
8            - not_null
9            - unique
10
11    - name: int_products
12      columns:
13        - name: product_name
14          tests:
15            - not_null
16            - unique
17        - name: brand_name
18          tests:
19            - not_null
20
21    - name: int_order_details
22      columns:
23        - name: order_detail_id
24          tests:
25            - not_null
26            - unique
```

Dengan hasil sebagai berikut :

```
(.venv) rismanovic@LAPTOP-U6LTFQ61:~/unit2/dbt-demo/my_project$ dbt run && dbt test
13:41:53 Running with dbt=1.7.0
13:41:53 Registered adapter: postgres=1.7.0
13:41:53 [WARNING]: Configuration paths exist in your dbt_project.yml file which do not apply to any resources.
There are 2 unused configuration paths:
- models.my_project.fct
- models.my_project.mart
13:41:53 Found 8 models, 31 tests, 4 sources, 0 exposures, 0 metrics, 414 macros, 0 groups, 0 semantic models
13:41:53
13:41:53 Concurrency: 1 threads (target='dev')
13:41:54
13:41:54 1 of 8 START sql citus_materialization model public_int.daily sales ..... [RUN]
13:41:54 1 of 8 OK created sql citus_materialization model public_int.daily sales ..... [SELECT 1 in 0.21s]
13:41:54 2 of 8 START sql view model public_stg.stg_brands ..... [RUN]
13:41:54 2 of 8 OK created sql view model public_stg.stg_brands ..... [CREATE VIEW in 0.06s]
13:41:54 3 of 8 START sql view model public_stg.stg_order_details ..... [RUN]
13:41:54 3 of 8 OK created sql view model public_stg.stg_order_details ..... [CREATE VIEW in 0.04s]
13:41:54 4 of 8 START sql view model public_stg.stg_orders ..... [RUN]
13:41:54 4 of 8 OK created sql view model public_stg.stg_orders ..... [CREATE VIEW in 0.05s]
13:41:54 5 of 8 START sql view model public_stg.stg_products ..... [RUN]
13:41:54 5 of 8 OK created sql view model public_stg.stg_products ..... [CREATE VIEW in 0.04s]
13:41:54 6 of 8 START sql table model public_int.int_orders ..... [RUN]
13:41:54 6 of 8 OK created sql table model public_int.int_orders ..... [SELECT 470 in 0.05s]
13:41:54 7 of 8 START sql table model public_int.int_products ..... [RUN]
13:41:54 7 of 8 OK created sql table model public_int.int_products ..... [SELECT 4 in 0.05s]
13:41:54 8 of 8 START sql table model public_int.int_order_details ..... [RUN]
13:41:54 8 of 8 OK created sql table model public_int.int_order_details ..... [SELECT 470 in 0.05s]
```

```

13:41:54
13:41:54 Finished running 1 citrus_materialization model, 4 view models, 3 table models in 0 hours 0 minutes and 0.73 seconds (0.73s).
13:41:54
13:41:54 Completed successfully
13:41:54
13:41:54 Done. PASS=8 WARN=0 ERROR=0 SKIP=0 TOTAL=8
13:41:59 Running with dbt=1.7.0
13:41:59 Registered adapter: postgres=1.7.0
13:41:59 [WARNING]: Configuration paths exist in your dbt_project.yml file which do not apply to any resources.
There are 2 unused configuration paths:
- models.my_project.mart
- models.my_project.fct
13:41:59 Found 8 models, 31 tests, 4 sources, 0 exposures, 0 metrics, 414 macros, 0 groups, 0 semantic models
13:41:59
13:41:59 Concurrency: 1 threads (target='dev')
13:41:59
13:41:59 1 of 31 START test not_null_int_order_details_order_detail_id ..... [RUN]
13:41:59 1 of 31 PASS not_null_int_order_details_order_detail_id ..... [PASS in 0.04s]
13:41:59 2 of 31 START test not_null_int_products_brand_name ..... [RUN]
13:41:59 2 of 31 PASS not_null_int_products_brand_name ..... [PASS in 0.02s]
13:41:59 3 of 31 START test not_null_int_products_product_name ..... [RUN]
13:41:59 3 of 31 PASS not_null_int_products_product_name ..... [PASS in 0.03s]
13:41:59 4 of 31 START test not_null_stg_brands_brand_id ..... [RUN]
13:41:59 4 of 31 PASS not_null_stg_brands_brand_id ..... [PASS in 0.03s]
13:41:59 5 of 31 START test not_null_stg_order_details_order_detail_id ..... [RUN]
13:41:59 5 of 31 PASS not_null_stg_order_details_order_detail_id ..... [PASS in 0.02s]
13:41:59 6 of 31 START test not_null_stg_orders_order_id ..... [RUN]
13:41:59 6 of 31 PASS not_null_stg_orders_order_id ..... [PASS in 0.03s]

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13:41:59 6 of 31 PASS not_null_stg_orders_order_id ..... [PASS in 0.03s]
13:41:59 7 of 31 START test not_null_stg_products_brand_id ..... [RUN]
13:41:59 7 of 31 PASS not_null_stg_products_brand_id ..... [PASS in 0.03s]
13:41:59 8 of 31 START test not_null_stg_products_product_id ..... [RUN]
13:41:59 8 of 31 PASS not_null_stg_products_product_id ..... [PASS in 0.08s]
13:41:59 9 of 31 START test source_not_null_store_brands_brand_id ..... [RUN]
13:41:59 9 of 31 PASS source_not_null_store_brands_brand_id ..... [PASS in 0.02s]
13:41:59 10 of 31 START test source_not_null_store_brands_name ..... [RUN]
13:41:59 10 of 31 PASS source_not_null_store_brands_name ..... [PASS in 0.03s]
13:41:59 11 of 31 START test source_not_null_store_order_details_order_detail_id ..... [RUN]
13:41:59 11 of 31 PASS source_not_null_store_order_details_order_detail_id ..... [PASS in 0.03s]
13:41:59 12 of 31 START test source_not_null_store_order_details_price ..... [RUN]
13:41:59 12 of 31 PASS source_not_null_store_order_details_price ..... [PASS in 0.02s]
13:41:59 13 of 31 START test source_not_null_store_order_details_quantity ..... [RUN]
13:42:00 13 of 31 PASS source_not_null_store_order_details_quantity ..... [PASS in 0.03s]
13:42:00 14 of 31 START test source_not_null_store_orders_order_date ..... [RUN]
13:42:00 14 of 31 PASS source_not_null_store_orders_order_date ..... [PASS in 0.03s]
13:42:00 15 of 31 START test source_not_null_store_orders_order_id ..... [RUN]
13:42:00 15 of 31 PASS source_not_null_store_orders_order_id ..... [PASS in 0.03s]
13:42:00 16 of 31 START test source_not_null_store_products_name ..... [RUN]
13:42:00 16 of 31 PASS source_not_null_store_products_name ..... [PASS in 0.03s]
13:42:00 17 of 31 START test source_not_null_store_products_price ..... [RUN]
13:42:00 17 of 31 PASS source_not_null_store_products_price ..... [PASS in 0.02s]
13:42:00 18 of 31 START test source_not_null_store_products_product_id ..... [RUN]
13:42:00 18 of 31 PASS source_not_null_store_products_product_id ..... [PASS in 0.02s]
13:42:00 19 of 31 PASS test source_relationships_store_order_details_order_id_order_id_source_store_orders_ [RUN]
13:42:00 19 of 31 PASS source_relationships_store_order_details_order_id_order_id_source_store_orders_ [PASS in 0.03s]
13:42:00 20 of 31 START test source_relationships_store_order_details_product_id_product_id_source_store_products_ [RUN]

```

```

13:42:00 20 of 31 PASS source_relationships_store_order_details_product_id_product_id_source_store_products_ [PASS in 0.03s]
13:42:00 21 of 31 START test source_relationships_store_products_brand_id_brand_id_source_store_brands_ [RUN]
13:42:00 21 of 31 PASS source_relationships_store_products_brand_id_brand_id_source_store_brands_ [PASS in 0.03s]
13:42:00 22 of 31 START test source_unique_store_brands_brand_id ..... [RUN]
13:42:00 22 of 31 PASS source_unique_store_brands_brand_id ..... [PASS in 0.03s]
13:42:00 23 of 31 START test source_unique_store_order_details_order_detail_id ..... [RUN]
13:42:00 23 of 31 PASS source_unique_store_order_details_order_detail_id ..... [PASS in 0.03s]
13:42:00 24 of 31 START test source_unique_store_orders_order_id ..... [RUN]
13:42:00 24 of 31 PASS source_unique_store_orders_order_id ..... [PASS in 0.02s]
13:42:00 25 of 31 START test source_unique_store_products_product_id ..... [RUN]
13:42:00 25 of 31 PASS source_unique_store_products_product_id ..... [PASS in 0.03s]
13:42:00 26 of 31 START test unique_int_order_details_order_detail_id ..... [RUN]
13:42:00 26 of 31 PASS unique_int_order_details_order_detail_id ..... [PASS in 0.03s]
13:42:00 27 of 31 START test unique_int_products_product_name ..... [RUN]
13:42:00 27 of 31 PASS unique_int_products_product_name ..... [PASS in 0.03s]
13:42:00 28 of 31 START test unique_stg_brands_brand_id ..... [RUN]
13:42:00 28 of 31 PASS unique_stg_brands_brand_id ..... [PASS in 0.02s]
13:42:00 29 of 31 START test unique_stg_order_details_order_detail_id ..... [RUN]
13:42:00 29 of 31 PASS unique_stg_order_details_order_detail_id ..... [PASS in 0.03s]
13:42:00 30 of 31 START test unique_stg_orders_order_id ..... [RUN]
13:42:00 30 of 31 PASS unique_stg_orders_order_id ..... [PASS in 0.03s]
13:42:00 31 of 31 START test unique_stg_products_product_id ..... [RUN]
13:42:00 31 of 31 PASS unique_stg_products_product_id ..... [PASS in 0.02s]

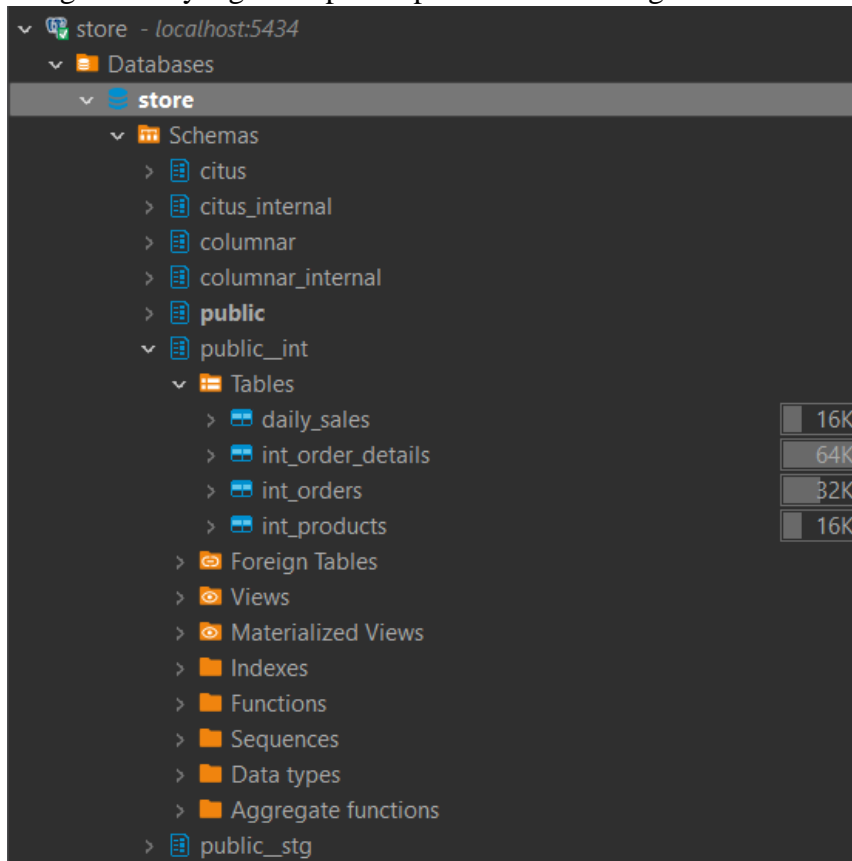
```

```

13:42:00
13:42:00 Finished running 31 tests in 0 hours 0 minutes and 1.07 seconds (1.07s).
13:42:00
13:42:00 Completed successfully
13:42:00
13:42:00 Done. PASS=31 WARN=0 ERROR=0 SKIP=0 TOTAL=31
(.venv) rismanovic@LAPTOP-U6LIFQG1:~/unit2/dbt-demo/my_project$

```

- Dengan hasil yang ditampilkan pada dbeaver sebagai berikut



order_detail_id	order_id	order_date	customer_phone	brand_id	brand_name	product_id	product_name
1	1	2024-07-20 11:01:10.366	+915434374993	3	Sony	4	PlayStation 5
2	2	2024-07-20 17:07:59.101	+915434374993	2	Samsung	3	Galaxy S21
3	3	2024-07-20 04:33:58.572	+915434374993	2	Samsung	3	Galaxy S21
4	4	2024-07-20 23:42:00.042	+915434374993	2	Samsung	3	Galaxy S21
5	5	2024-07-20 08:16:15.402	+915434374993	1	Apple	1	iPhone 13
6	6	2024-07-20 20:43:09.599	+915434374993	1	Apple	1	iPhone 13
7	7	2024-07-20 01:21:09.605	+915434374993	1	Apple	1	iPhone 13
8	8	2024-07-20 15:11:23.502	+915434374993	2	Samsung	3	Galaxy S21
9	9	2024-07-20 08:31:21.534	+915434374993	1	Apple	1	iPhone 13
10	10	2024-07-20 18:42:17.578	+915434374993	2	Samsung	3	Galaxy S21
11	11	2024-07-20 12:00:10.938	+915434374993	1	Apple	2	MacBook Pro
12	12	2024-07-20 07:39:15.059	+915434374993	3	Sony	4	PlayStation 5
13	13	2024-07-20 16:35:58.370	+915434374993	2	Samsung	3	Galaxy S21
14	14	2024-07-20 20:43:18.346	+915434374993	3	Sony	4	PlayStation 5
15	15	2024-07-20 23:51:56.366	+915434374993	1	Apple	2	MacBook Pro
16	16	2024-07-20 04:46:44.853	+915434374993	1	Apple	2	MacBook Pro
17	17	2024-07-20 09:57:59.122	+915434374993	3	Sony	4	PlayStation 5
18	18	2024-07-20 14:21:59.035	+915434374993	2	Samsung	3	Galaxy S21
19	19	2024-07-20 03:31:09.199	+915434374993	1	Apple	1	iPhone 13
20	20	2024-07-20 23:00:37.212	+915434374993	1	Apple	1	iPhone 13
21	21	2024-07-20 16:19:36.005	+915434374993	1	Apple	1	iPhone 13
22	22	2024-07-20 20:40:52.405	+915434374993	2	Samsung	3	Galaxy S21
23	23	2024-07-20 02:02:51.180	+915434374993	3	Sony	4	PlayStation 5
24	24	2024-07-20 21:10:39.126	+915434374993	1	Apple	1	iPhone 13
25	25	2024-07-20 11:28:17.297	+915434374993	2	Samsung	3	Galaxy S21
26	26	2024-07-20 04:00:46.696	+915434374993	3	Sony	4	PlayStation 5
27	27	2024-07-20 18:38:40.636	+915434374993	2	Samsung	3	Galaxy S21
28	28	2024-07-20 20:44:24.467	+915434374993	1	Apple	2	MacBook Pro
29	29	2024-07-21 18:49:15.342	+919133664523	1	Apple	2	MacBook Pro
30	30	2024-07-21 15:56:20.848	+919133664523	2	Samsung	3	Galaxy S21

int_order_details								
Properties Data ER Diagram								
Enter a SQL expression to filter results (use Ctrl+Space)								
	customer_phone	brand_id	brand_name	product_id	product_name	product_price	order_qty	unit_sales
1	+915434374993	3	Sony	4	PlayStation 5	499.99	6	2,999.94
2	+915434374993	2	Samsung	3	Galaxy S21	699.99	9	6,299.91
3	+915434374993	2	Samsung	3	Galaxy S21	699.99	9	6,299.91
4	+915434374993	2	Samsung	3	Galaxy S21	699.99	3	2,099.97
5	+915434374993	1	Apple	1	iPhone 13	799.99	2	1,599.98
6	+915434374993	1	Apple	1	iPhone 13	799.99	2	1,599.98
7	+915434374993	1	Apple	1	iPhone 13	799.99	5	3,999.95
8	+915434374993	2	Samsung	3	Galaxy S21	699.99	10	6,999.9
9	+915434374993	1	Apple	1	iPhone 13	799.99	10	7,999.9
10	+915434374993	2	Samsung	3	Galaxy S21	699.99	10	6,999.9
11	+915434374993	1	Apple	2	MacBook Pro	1,299.99	7	9,099.93
12	+915434374993	3	Sony	4	PlayStation 5	499.99	5	2,499.95
13	+915434374993	2	Samsung	3	Galaxy S21	699.99	9	6,299.97
14	+915434374993	3	Sony	4	PlayStation 5	499.99	5	2,499.95
15	+915434374993	1	Apple	2	MacBook Pro	1,299.99	3	3,899.97
16	+915434374993	1	Apple	2	MacBook Pro	1,299.99	10	12,999.9
17	+915434374993	3	Sony	4	PlayStation 5	499.99	10	4,999.9
18	+915434374993	2	Samsung	3	Galaxy S21	699.99	2	1,399.98
19	+915434374993	1	Apple	1	iPhone 13	799.99	10	7,999.9
20	+915434374993	1	Apple	1	iPhone 13	799.99	4	3,199.96
21	+915434374993	1	Apple	1	iPhone 13	799.99	2	1,599.98
22	+915434374993	2	Samsung	3	Galaxy S21	699.99	4	2,799.96
23	+915434374993	3	Sony	4	PlayStation 5	499.99	5	2,499.95
24	+915434374993	1	Apple	1	iPhone 13	799.99	1	799.99
25	+915434374993	2	Samsung	3	Galaxy S21	699.99	2	1,399.98
26	+915434374993	3	Sony	4	PlayStation 5	499.99	4	1,999.96
27	+915434374993	2	Samsung	3	Galaxy S21	699.99	3	2,099.97
28	+915434374993	1	Apple	2	MacBook Pro	1,299.99	8	10,399.92
29	+919133664523	1	Apple	2	MacBook Pro	1,299.99	9	11,699.91
30	+919133664523	2	Samsung	3	Galaxy S21	699.99	10	6,999.9

int_orders			
Properties Data ER Diagram			
Enter a SQL expression to filter results (use Ctrl+Space)			
	order_id	order_date	customer_phone
1	1	2024-07-20 11:01:10.366	+915434374993
2	2	2024-07-20 17:07:59.101	+915434374993
3	3	2024-07-20 04:33:58.572	+915434374993
4	4	2024-07-20 23:42:00.042	+915434374993
5	5	2024-07-20 08:16:15.402	+915434374993
6	6	2024-07-20 20:43:09.599	+915434374993
7	7	2024-07-20 01:21:09.605	+915434374993
8	8	2024-07-20 15:11:23.502	+915434374993
9	9	2024-07-20 08:31:21.534	+915434374993
10	10	2024-07-20 18:42:17.578	+915434374993
11	11	2024-07-20 12:00:10.938	+915434374993
12	12	2024-07-20 07:39:15.059	+915434374993
13	13	2024-07-20 16:35:58.370	+915434374993
14	14	2024-07-20 20:43:18.346	+915434374993
15	15	2024-07-20 23:51:56.366	+915434374993
16	16	2024-07-20 04:46:44.853	+915434374993
17	17	2024-07-20 09:57:59.122	+915434374993
18	18	2024-07-20 14:21:59.035	+915434374993
19	19	2024-07-20 03:31:09.199	+915434374993
20	20	2024-07-20 23:00:37.212	+915434374993
21	21	2024-07-20 16:19:36.005	+915434374993
22	22	2024-07-20 20:40:52.405	+915434374993
23	23	2024-07-20 02:02:51.180	+915434374993
24	24	2024-07-20 21:10:39.126	+915434374993
25	25	2024-07-20 11:28:17.297	+915434374993
26	26	2024-07-20 04:00:46.696	+915434374993
27	27	2024-07-20 18:38:40.636	+915434374993
28	28	2024-07-20 20:44:24.467	+915434374993
29	29	2024-07-21 18:49:15.342	+919133664523
30	30	2024-07-21 15:56:20.848	+919133664523
31	31	2024-07-21 20:07:10.213	+919133664523

int\_products

Properties Data ER Diagram

store Databases store Schemas public\_int Tables int\_prod

Enter a SQL expression to filter results (use Ctrl+Space)

	product_id	brand_id	brand_name	product_name	product_price
1	1	1	Apple	iPhone 13	799.99
2	2	1	Apple	MacBook Pro	1,299.99
3	3	2	Samsung	Galaxy S21	699.99
4	4	3	Sony	PlayStation 5	499.99

Refresh Save Cancel Export data 200 4 4 row(s) fetched - 0.002s, on 2024-08-04 at 20:49:38

- Membuat tabel \_fct dan mart

- o \_fct

fct\_orders.sql

```
dbt-demo > my_project > models > _fct > fct_orders.sql
1 select *
2 from {{ref('int_orders')}}
```

fct\_orders.sql U fct\_order\_details.sql

```
dbt-demo > my_project > models > _fct > fct_order_details.sql
1 select *
2 from {{ref('int_order_details')}}
```

- o mart

fct\_orders.sql U fct\_order\_details.sql U mart\_orders.sql U

```
dbt-demo > my_project > models > mart > mart_orders.sql
1 select *
2 from {{ref('fct_orders')}}
```

## Menambah kolom baru pada fct\_orders

```
fct_orders.sql U X  fct_order_details.sql U  mart_orders.sql U
dbt-demo > my_project > models > _fct > fct_orders.sql
1  select
2      orders.*
3      , case
4          when orders.order_id % 2 != 0 then 'marketing'
5          else 'finance'
6      end as mart_flaging
7  from {{ref('int_orders')}} as orders
```

- Melakukan dbt run dan dbt test pada mart dan fct

```
(.venv) rismenovici@LAPTOP-U6LTFQ61:~/unit2/dbt-demo/my_project$ dbt run && dbt test
14:15:07 Running with dbt=1.7.0
14:15:07 Registered adapter: postgres=1.7.0
14:15:07 Found 11 models, 31 tests, 4 sources, 0 exposures, 0 metrics, 414 macros, 0 groups, 0 semantic models
14:15:07
14:15:07 Concurrency: 1 threads (target='dev')
14:15:07
14:15:07 1 of 11 START sql citus_materialization model public_int.daily_sales ..... [RUN]
14:15:08 1 of 11 OK created sql citus_materialization model public_int.daily_sales ..... [SELECT 1 in 0.25s]
14:15:08 2 of 11 START sql view model public_stg.stg_brands ..... [RUN]
14:15:08 2 of 11 OK created sql view model public_stg.stg_brands ..... [CREATE VIEW in 0.07s]
14:15:08 3 of 11 START sql view model public_stg.stg_order_details ..... [RUN]
14:15:08 3 of 11 OK created sql view model public_stg.stg_order_details ..... [CREATE VIEW in 0.05s]
14:15:08 4 of 11 START sql view model public_stg.stg_orders ..... [RUN]
14:15:08 4 of 11 OK created sql view model public_stg.stg_orders ..... [CREATE VIEW in 0.05s]
14:15:08 5 of 11 START sql view model public_stg.stg_products ..... [RUN]
14:15:08 5 of 11 OK created sql view model public_stg.stg_products ..... [CREATE VIEW in 0.06s]
14:15:08 6 of 11 START sql table model public_int.int_orders ..... [RUN]
14:15:08 6 of 11 OK created sql table model public_int.int_orders ..... [SELECT 470 in 0.06s]
14:15:08 7 of 11 START sql table model public_int.int_products ..... [RUN]
14:15:08 7 of 11 OK created sql table model public_int.int_products ..... [SELECT 4 in 0.05s]
14:15:08 8 of 11 START sql table model public_fct.fct_orders ..... [RUN]
14:15:08 8 of 11 OK created sql table model public_fct.fct_orders ..... [SELECT 470 in 0.05s]
14:15:08 9 of 11 START sql table model public_int.int_order_details ..... [RUN]
14:15:08 9 of 11 OK created sql table model public_int.int_order_details ..... [SELECT 470 in 0.06s]
14:15:08 10 of 11 START sql table model public_mart.mart_orders ..... [RUN]
14:15:08 10 of 11 OK created sql table model public_mart.mart_orders ..... [SELECT 470 in 0.05s]
14:15:08 11 of 11 START sql table model public_fct.fct_order_details ..... [RUN]
14:15:08 11 of 11 OK created sql table model public_fct.fct_order_details ..... [SELECT 470 in 0.07s]
14:15:08
14:15:08 Finished running 1 citus_materialization model, 4 view models, 6 table models in 0 hours 0 minutes and 1.16 seconds (1.16s).
14:15:08
14:15:08 Completed successfully
14:15:08
14:15:08 Done. PASS=11 WARN=0 ERROR=0 SKIP=0 TOTAL=11
14:15:13 Running with dbt=1.7.0
14:15:13 Registered adapter: postgres=1.7.0
14:15:13 Found 11 models, 31 tests, 4 sources, 0 exposures, 0 metrics, 414 macros, 0 groups, 0 semantic models
14:15:13
14:15:13 Concurrency: 1 threads (target='dev')
```



```

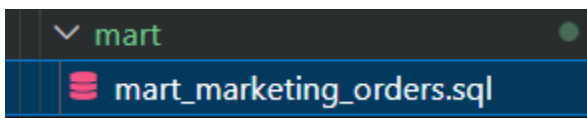
14:15:13
14:15:13 1 of 31 START test not_null_int_order_details_order_detail_id ..... [RUN]
14:15:13 1 of 31 PASS not_null_int_order_details_order_detail_id ..... [PASS in 0.05s]
14:15:13 2 of 31 START test not_null_int_products_brand_name ..... [RUN]
14:15:13 2 of 31 PASS not_null_int_products_brand_name ..... [PASS in 0.03s]
14:15:13 3 of 31 START test not_null_int_products_product_name ..... [RUN]
14:15:13 3 of 31 PASS not_null_int_products_product_name ..... [PASS in 0.03s]
14:15:13 4 of 31 START test not_null_stg_brands_brand_id ..... [RUN]
14:15:13 4 of 31 PASS not_null_stg_brands_brand_id ..... [PASS in 0.03s]
14:15:13 5 of 31 START test not_null_stg_order_details_order_detail_id ..... [RUN]
14:15:13 5 of 31 PASS not_null_stg_order_details_order_detail_id ..... [PASS in 0.03s]
14:15:13 6 of 31 START test not_null_stg_orders_order_id ..... [RUN]
14:15:13 6 of 31 PASS not_null_stg_orders_order_id ..... [PASS in 0.08s]
14:15:13 7 of 31 START test not_null_stg_products_brand_id ..... [RUN]
14:15:13 7 of 31 PASS not_null_stg_products_brand_id ..... [PASS in 0.03s]
14:15:13 8 of 31 START test not_null_stg_products_product_id ..... [RUN]
14:15:13 8 of 31 PASS not_null_stg_products_product_id ..... [PASS in 0.03s]
14:15:13 9 of 31 START test source_not_null_store_brands_brand_id ..... [RUN]
14:15:13 9 of 31 PASS source_not_null_store_brands_brand_id ..... [PASS in 0.03s]
14:15:13 10 of 31 START test source_not_null_store_brands_name ..... [RUN]
14:15:13 10 of 31 PASS source_not_null_store_brands_name ..... [PASS in 0.03s]
14:15:13 11 of 31 START test source_not_null_store_order_details_order_detail_id ..... [RUN]
14:15:13 11 of 31 PASS source_not_null_store_order_details_order_detail_id ..... [PASS in 0.03s]
14:15:13 12 of 31 START test source_not_null_store_order_details_price ..... [RUN]
14:15:13 12 of 31 PASS source_not_null_store_order_details_price ..... [PASS in 0.04s]
14:15:13 13 of 31 START test source_not_null_store_order_details_quantity ..... [RUN]
14:15:14 13 of 31 PASS source_not_null_store_order_details_quantity ..... [PASS in 0.03s]
14:15:14 14 of 31 START test source_not_null_store_orders_order_date ..... [RUN]
14:15:14 14 of 31 PASS source_not_null_store_orders_order_date ..... [PASS in 0.03s]
14:15:14 15 of 31 START test source_not_null_store_orders_order_id ..... [RUN]
14:15:14 15 of 31 PASS source_not_null_store_orders_order_id ..... [PASS in 0.03s]
14:15:14 16 of 31 START test source_not_null_store_products_name ..... [RUN]
14:15:14 16 of 31 PASS source_not_null_store_products_name ..... [PASS in 0.03s]
14:15:14 17 of 31 START test source_not_null_store_products_price ..... [RUN]
14:15:14 17 of 31 PASS source_not_null_store_products_price ..... [PASS in 0.04s]
14:15:14 18 of 31 START test source_not_null_store_products_product_id ..... [RUN]
14:15:14 18 of 31 PASS source_not_null_store_products_product_id ..... [PASS in 0.03s]
14:15:14 19 of 31 START test source_relationships_store_order_details_order_id_order_id_source_store_orders_ [RUN]
14:15:14 19 of 31 PASS source_relationships_store_order_details_order_id_order_id_source_store_orders_ [PASS in 0.04s]
14:15:14 20 of 31 START test source_relationships_store_order_details_product_id_product_id_source_store_products_ [RUN]
14:15:14 20 of 31 PASS source_relationships_store_order_details_product_id_product_id_source_store_products_ [PASS in 0.03s]

14:15:14 21 of 31 START test source_relationships_store_products_brand_id_brand_id_source_store_brands_ [RUN]
14:15:14 21 of 31 PASS source_relationships_store_products_brand_id_brand_id_source_store_brands_ [PASS in 0.03s]
14:15:14 22 of 31 START test source_unique_store_brands_brand_id ..... [RUN]
14:15:14 22 of 31 PASS source_unique_store_brands_brand_id ..... [PASS in 0.03s]
14:15:14 23 of 31 START test source_unique_store_order_details_order_detail_id ..... [RUN]
14:15:14 23 of 31 PASS source_unique_store_order_details_order_detail_id ..... [PASS in 0.03s]
14:15:14 24 of 31 START test source_unique_store_orders_order_id ..... [RUN]
14:15:14 24 of 31 PASS source_unique_store_orders_order_id ..... [PASS in 0.03s]
14:15:14 25 of 31 START test source_unique_store_products_product_id ..... [RUN]
14:15:14 25 of 31 PASS source_unique_store_products_product_id ..... [PASS in 0.03s]
14:15:14 26 of 31 START test unique_int_order_details_order_detail_id ..... [RUN]
14:15:14 26 of 31 PASS unique_int_order_details_order_detail_id ..... [PASS in 0.03s]
14:15:14 27 of 31 START test unique_int_products_product_name ..... [RUN]
14:15:14 27 of 31 PASS unique_int_products_product_name ..... [PASS in 0.03s]
14:15:14 28 of 31 START test unique_stg_brands_brand_id ..... [RUN]
14:15:14 28 of 31 PASS unique_stg_brands_brand_id ..... [PASS in 0.03s]
14:15:14 29 of 31 START test unique_stg_order_details_order_detail_id ..... [RUN]
14:15:14 29 of 31 PASS unique_stg_order_details_order_detail_id ..... [PASS in 0.03s]
14:15:14 30 of 31 START test unique_stg_orders_order_id ..... [RUN]
14:15:14 30 of 31 PASS unique_stg_orders_order_id ..... [PASS in 0.03s]
14:15:14 31 of 31 START test unique_stg_products_product_id ..... [RUN]
14:15:14 31 of 31 PASS unique_stg_products_product_id ..... [PASS in 0.03s]

14:15:14
14:15:14 Finished running 31 tests in 0 hours 0 minutes and 1.28 seconds (1.28s).
14:15:14
14:15:14 Completed successfully
14:15:14
14:15:14 Done. PASS=31 WARN=0 ERROR=0 SKIP=0 TOTAL=31
(.venv) rismanovic@LAPTOP-U6LIFQ61:~/unit2/dbt-demo/my_project$

```

- Rename dari mart\_orders.sql menjadi mart\_marketing\_orders.sql



```
fct_orders.sql U  fct_order_details.sql U  mart_marketing_orders.sql U X
dbt-demo > my_project > models > mart > mart_marketing_orders.sql
1  select *
2  from {{ref ('fct_orders')}}
3  where mart_flagging = 'marketing'
```

- Membuat mart\_finance\_orders.sql

```
▼ mart
mart_finance_orders.sql
mart_marketing_orders.sql U
```

```
mart_marketing_orders.sql U X  mart_finance_orders.sql X
dbt-demo > my_project > models > mart > mart_finance_orders.sql
1  select *
2  from {{ref ('fct_orders')}}
3  where mart_flagging = 'finance'|
```

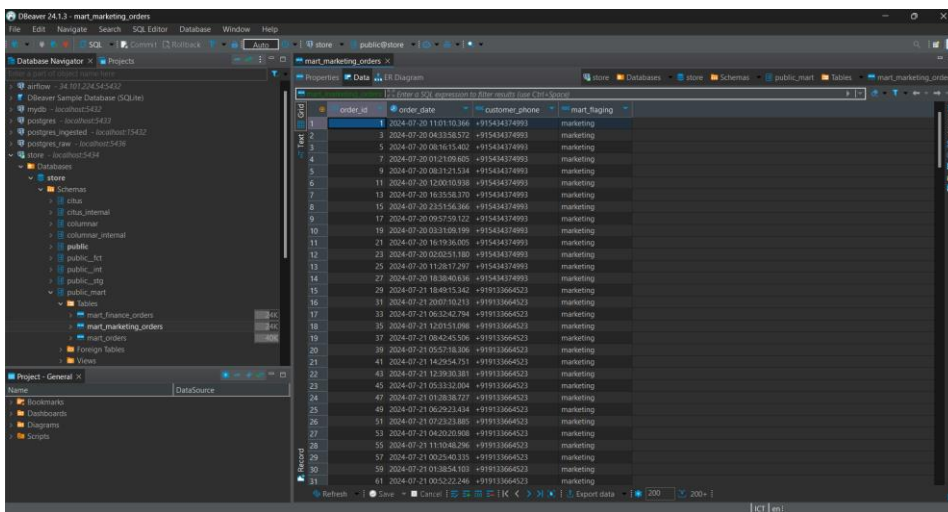
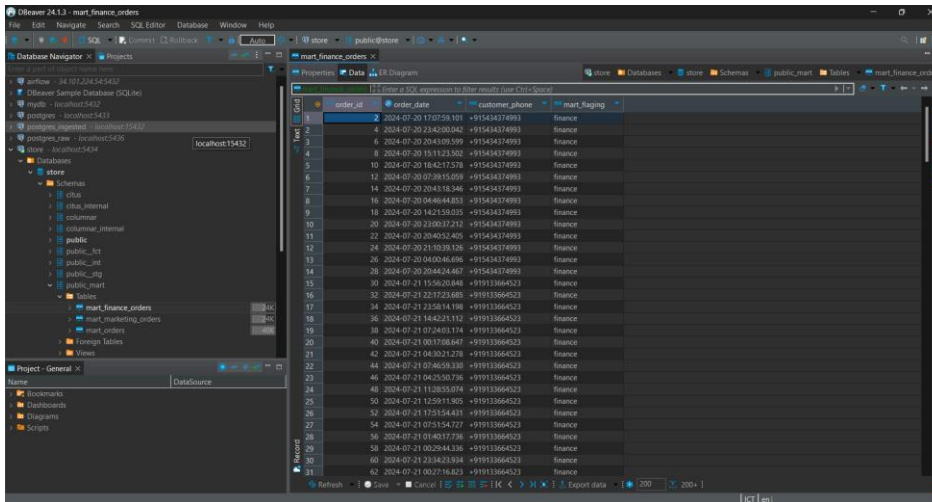
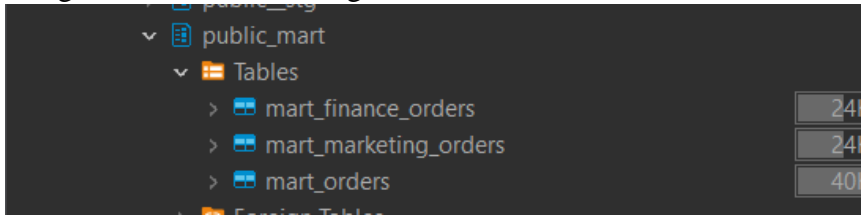
- Menjalankan dbt run dan dbt test untuk mart\_marketing\_orders.sql dan mart\_finance\_orders.sql

```
(.venv) rismanovic@LAPTOP-U6LIFQ61:~/unit2/dbt-demo/my_project$ dbt run && dbt test
14:24:20 Running with dbt=1.7.0
14:24:20 Registered adapter: postgres=1.7.0
14:24:20 Found 12 models, 31 tests, 4 sources, 0 exposures, 0 metrics, 414 macros, 0 groups, 0 semantic models
14:24:20
14:24:20 Concurrency: 1 threads (target='dev')
14:24:20
14:24:20 1 of 12 START sql citus_materialization model public_int.daily_sales ..... [RUN]
14:24:21 1 of 12 OK created sql citus_materialization model public_int.daily_sales ..... [SELECT 1 in 0.25s]
14:24:21 2 of 12 START sql view model public_stg.stg_brands ..... [RUN]
14:24:21 2 of 12 OK created sql view model public_stg.stg_brands ..... [CREATE VIEW in 0.07s]
14:24:21 3 of 12 START sql view model public_stg.stg_order_details ..... [RUN]
14:24:21 3 of 12 OK created sql view model public_stg.stg_order_details ..... [CREATE VIEW in 0.06s]
14:24:21 4 of 12 START sql view model public_stg.stg_orders ..... [RUN]
14:24:21 4 of 12 OK created sql view model public_stg.stg_orders ..... [CREATE VIEW in 0.05s]
14:24:21 5 of 12 START sql view model public_stg.stg_products ..... [RUN]
14:24:21 5 of 12 OK created sql view model public_stg.stg_products ..... [CREATE VIEW in 0.06s]
14:24:21 6 of 12 START sql table model public_int.int_orders ..... [RUN]
14:24:21 6 of 12 OK created sql table model public_int.int_orders ..... [SELECT 470 in 0.06s]
14:24:21 7 of 12 START sql table model public_int.int_products ..... [RUN]
14:24:21 7 of 12 OK created sql table model public_int.int_products ..... [SELECT 4 in 0.06s]
14:24:21 8 of 12 START sql table model public_fct.fct_orders ..... [RUN]
14:24:21 8 of 12 OK created sql table model public_fct.fct_orders ..... [SELECT 470 in 0.06s]
14:24:21 9 of 12 START sql table model public_int.int_order_details ..... [RUN]
14:24:21 9 of 12 OK created sql table model public_int.int_order_details ..... [SELECT 470 in 0.06s]
14:24:21 10 of 12 START sql table model public_mart.mart_finance_orders ..... [RUN]
14:24:21 10 of 12 OK created sql table model public_mart.mart_finance_orders ..... [SELECT 235 in 0.06s]
14:24:21 11 of 12 START sql table model public_mart.mart_marketing_orders ..... [RUN]
14:24:21 11 of 12 OK created sql table model public_mart.mart_marketing_orders ..... [SELECT 235 in 0.06s]
14:24:21 12 of 12 START sql table model public_fct.fct_order_details ..... [RUN]
14:24:21 12 of 12 OK created sql table model public_fct.fct_order_details ..... [SELECT 470 in 0.06s]
14:24:21
14:24:21 Finished running 1 citus_materialization model, 4 view models, 7 table models in 0 hours 0 minutes and 1.26 seconds (1.26s).
14:24:21
14:24:21 Completed successfully
```

```
14:24:21
14:24:21 Done. PASS=12 WARN=0 ERROR=0 SKIP=0 TOTAL=12
14:24:27 Running with dbt=1.7.0
14:24:27 Registered adapter: postgres=1.7.0
14:24:27 Found 12 models, 31 tests, 4 sources, 0 exposures, 0 metrics, 414 macros, 0 groups, 0 semantic models
14:24:27
14:24:27 Concurrency: 1 threads (target='dev')
14:24:27
14:24:27 1 of 31 START test not null int order details order_detail_id ..... [RUN]
14:24:27 1 of 31 PASS not null int order details order_detail_id ..... [PASS in 0.07s]
14:24:27 2 of 31 START test not null int products brand_name ..... [RUN]
14:24:27 2 of 31 PASS not null int products brand_name ..... [PASS in 0.03s]
14:24:27 3 of 31 START test not null int products product_name ..... [RUN]
14:24:28 3 of 31 PASS not null int products product_name ..... [PASS in 0.03s]
14:24:28 4 of 31 START test not null stg brands brand_id ..... [RUN]
14:24:28 4 of 31 PASS not null stg brands brand_id ..... [PASS in 0.03s]
14:24:28 5 of 31 START test not null stg order details order_detail_id ..... [RUN]
14:24:28 5 of 31 PASS not null stg order details order_detail_id ..... [PASS in 0.03s]
14:24:28 6 of 31 START test not null stg orders order_id ..... [RUN]
14:24:28 6 of 31 PASS not null stg orders order_id ..... [PASS in 0.08s]
14:24:28 7 of 31 START test not null stg products brand_id ..... [RUN]
14:24:28 7 of 31 PASS not null stg products brand_id ..... [PASS in 0.03s]
14:24:28 8 of 31 START test not null stg products product_id ..... [RUN]
14:24:28 8 of 31 PASS not null stg products product_id ..... [PASS in 0.03s]
14:24:28 9 of 31 START test source not null store brands brand_id ..... [RUN]
14:24:28 9 of 31 PASS source not null store brands brand_id ..... [PASS in 0.03s]
14:24:28 10 of 31 START test source not null store brands name ..... [RUN]
14:24:28 10 of 31 PASS source not null store brands name ..... [PASS in 0.03s]
14:24:28 11 of 31 START test source not null store order details order_detail_id ..... [RUN]
14:24:28 11 of 31 PASS source not null store order details order_detail_id ..... [PASS in 0.03s]
14:24:28 12 of 31 START test source not null store order details price ..... [RUN]
14:24:28 12 of 31 PASS source not null store order details price ..... [PASS in 0.03s]
14:24:28 13 of 31 START test source not null store order details quantity ..... [RUN]
14:24:28 13 of 31 PASS source not null store order details quantity ..... [PASS in 0.03s]
14:24:28 14 of 31 START test source not null store orders order_date ..... [RUN]
14:24:28 14 of 31 PASS source not null store orders order_date ..... [PASS in 0.03s]
14:24:28 15 of 31 START test source not null store orders order_id ..... [RUN]
14:24:28 15 of 31 PASS source not null store orders order_id ..... [PASS in 0.03s]
14:24:28 16 of 31 START test source not null store products name ..... [RUN]
14:24:28 16 of 31 PASS source not null store products name ..... [PASS in 0.03s]
14:24:28 17 of 31 START test source not null store products price ..... [RUN]
```

```
14:24:28 18 of 31 START test source not null store products product_id ..... [RUN]
14:24:28 18 of 31 PASS source not null store products product_id ..... [PASS in 0.03s]
14:24:28 19 of 31 START test source relationships store order details order_id_order_id_source_store_orders ..... [RUN]
14:24:28 19 of 31 PASS source relationships store order details order_id_order_id_source_store_orders ..... [PASS in 0.04s]
14:24:28 20 of 31 START test source relationships store order details product_id_product_id_source_store_products ..... [RUN]
14:24:28 20 of 31 PASS source relationships store order details product_id_product_id_source_store_products ..... [PASS in 0.03s]
14:24:28 21 of 31 START test source relationships store products brand_id_brand_id_source_store_brands ..... [RUN]
14:24:28 21 of 31 PASS source relationships store products brand_id_brand_id_source_store_brands ..... [PASS in 0.03s]
14:24:28 22 of 31 START test source unique store brands brand_id ..... [RUN]
14:24:28 22 of 31 PASS source unique store brands brand_id ..... [PASS in 0.03s]
14:24:28 23 of 31 START test source unique store order details order_detail_id ..... [RUN]
14:24:28 23 of 31 PASS source unique store order details order_detail_id ..... [PASS in 0.03s]
14:24:28 24 of 31 START test source unique store orders order_id ..... [RUN]
14:24:28 24 of 31 PASS source unique store orders order_id ..... [PASS in 0.03s]
14:24:28 25 of 31 START test source unique store products product_id ..... [RUN]
14:24:28 25 of 31 PASS source unique store products product_id ..... [PASS in 0.03s]
14:24:28 26 of 31 START test unique int order details order_detail_id ..... [RUN]
14:24:28 26 of 31 PASS unique int order details order_detail_id ..... [PASS in 0.03s]
14:24:28 27 of 31 START test unique int products product_name ..... [RUN]
14:24:28 27 of 31 PASS unique int products product_name ..... [PASS in 0.03s]
14:24:28 28 of 31 START test unique stg brands brand_id ..... [RUN]
14:24:28 28 of 31 PASS unique stg brands brand_id ..... [PASS in 0.03s]
14:24:28 29 of 31 START test unique stg order details order_detail_id ..... [RUN]
14:24:28 29 of 31 PASS unique stg order details order_detail_id ..... [PASS in 0.03s]
14:24:28 30 of 31 START test unique stg orders order_id ..... [RUN]
14:24:28 30 of 31 PASS unique stg orders order_id ..... [PASS in 0.03s]
14:24:28 31 of 31 START test unique stg products product_id ..... [RUN]
14:24:28 31 of 31 PASS unique stg products product_id ..... [PASS in 0.03s]
14:24:28
14:24:28 Finished running 31 tests in 0 hours 0 minutes and 1.28 seconds (1.28s).
14:24:29
14:24:29 Completed successfully
14:24:29
14:24:29 Done. PASS=31 WARN=0 ERROR=0 SKIP=0 TOTAL=31
(.venv) r1smanovic@LAPTOP-UGL1FOG1:~/unit2/dbt-demo/my_projects
```

- Dengan hasil dbeaver sebagai berikut



order_id	order_date	customer_phone	mart_flagging
1	2024-07-20 11:01:10.366	+915434374993	marketing
2	2024-07-20 17:07:59.101	+915434374993	finance
3	2024-07-20 04:33:56.572	+915434374993	marketing
4	2024-07-20 23:43:00.062	+915434374993	finance
5	2024-07-20 08:16:15.402	+915434374993	marketing
6	2024-07-20 20:43:09.599	+915434374993	finance
7	2024-07-20 01:21:09.605	+915434374993	marketing
8	2024-07-20 15:11:23.502	+915434374993	finance
9	2024-07-20 08:31:13.534	+915434374993	marketing
10	2024-07-20 18:45:17.570	+915434374993	finance
11	2024-07-20 12:00:10.938	+915434374993	marketing
12	2024-07-20 07:38:15.059	+915434374993	finance
13	2024-07-20 16:35:58.370	+915434374993	marketing
14	2024-07-20 20:43:18.346	+915434374993	finance
15	2024-07-20 23:51:56.366	+915434374993	marketing
16	2024-07-20 04:46:44.853	+915434374993	finance
17	2024-07-20 09:57:59.122	+915434374993	marketing
18	2024-07-20 14:21:59.035	+915434374993	finance
19	2024-07-20 03:31:03.199	+915434374993	marketing
20	2024-07-20 23:02:37.212	+915434374993	finance
21	2024-07-20 16:19:36.005	+915434374993	marketing
22	2024-07-20 20:40:52.405	+915434374993	finance
23	2024-07-20 02:02:51.180	+915434374993	marketing
24	2024-07-20 21:10:39.126	+915434374993	finance
25	2024-07-20 11:28:17.297	+915434374993	marketing
26	2024-07-20 04:00:46.696	+915434374993	finance
27	2024-07-20 18:38:40.636	+915434374993	marketing
28	2024-07-20 20:44:24.467	+915434374993	finance
29	2024-07-21 18:49:15.342	+919113664523	marketing
30	2024-07-21 15:56:28.048	+919113664523	finance
31	2024-07-21 20:07:10.213	+919113664523	marketing

- Membuat packages pada dbt

```
! packages.yml ✕

dbt-demo > my_project > dbt_packages > ! packages.yml
1 packages:
2   - package: dbt-labs/dbt_utils
3     version: 1.2.0
```

```
• (.venv) rismanovic@LAPTOP-U6LIFQG1:~/unit2/dbt-demo/my_project$ dbt deps
14:40:03 Running with dbt=1.7.0
14:40:05 Updating lock file in file path: /home/rismanovic/unit2/dbt-demo/my_project/package-lock.yml
14:40:05 Installing dbt-labs/dbt_utils
14:40:07 Installed from version 1.2.0
14:40:07 Up to date!
○ (.venv) rismanovic@LAPTOP-U6LIFQG1:~/unit2/dbt-demo/my_project$
```

- Menjalankan dbt run dan dbt test untuk fct

```
! packages.yml U X    ! fct_schema.yml U X

dbt-demo > my_project > models > _fct > ! fct_schema.yml

1  version: 2
2
3  models:
4    - name: fct_orders
5      columns:
6        - name: order_id
7          tests:
8            - not_null
9            - unique
10
11   - name: fct_order_details
12     tests:
13       - dbt_utils.unique_combination_of_columns:
14         combination_of_columns:
15           - order_id
16           - order_detail_id
17
18     columns:
19       - name: order_detail_id
20         tests:
21           - not_null
22           - unique
```

```
❖ (.venv) r1mmovie@APTOP-UGLTFQEL:~/unit2/dbt-demo/my_project$ dbt run && dbt test
02:19:23 Running with dbt-1.7.0
02:19:23 Registered adapter: postgres-1.7.0
02:19:23 Unable to do partial parsing because a project dependency has been added
02:19:24 [WARNING]: Did not find matching node for patch with name 'int_order' in the 'models' section of file 'models/_int/int_schema.yml'
02:19:24 [WARNING]: Test 'test.my_project.not_null_int_order_order_id.3d18cd05db' (models/_int/int_schema.yml) depends on a node named 'int_order' in package '' which was not found
02:19:24 [WARNING]: Test 'test.my_project.unique_int_order_order_id.1d42c45c1a' (models/_int/int_schema.yml) depends on a node named 'int_order' in package '' which was not found
02:19:24 Found 12 models, 36 tests, 4 sources, 0 exposures, 0 metrics, 530 macros, 0 groups, 0 semantic models
02:19:24 Concurrency: 1 threads (target='dev')
02:19:25
02:19:25 1 of 12 START sql citus materialization model public_int.daily_sales ..... [RUN]
02:19:25 1 of 12 OK created sql citus materialization model public_int.daily_sales ..... [SELECT 1 in 0.29s]
02:19:25 2 of 12 START sql view model public_stg.stg_brands ..... [RUN]
02:19:25 2 of 12 OK created sql view model public_stg.stg_brands ..... [CREATE VIEW in 0.07s]
02:19:25 3 of 12 START sql view model public_stg.stg_order_details ..... [RUN]
02:19:25 3 of 12 OK created sql view model public_stg.stg_order_details ..... [CREATE VIEW in 0.06s]
02:19:25 4 of 12 START sql view model public_stg.stg_orders ..... [RUN]
02:19:25 4 of 12 OK created sql view model public_stg.stg_orders ..... [CREATE VIEW in 0.07s]
02:19:25 5 of 12 START sql view model public_stg.stg_products ..... [RUN]
02:19:25 5 of 12 OK created sql view model public_stg.stg_products ..... [CREATE VIEW in 0.05s]
02:19:25 6 of 12 START sql table model public_int.int_orders ..... [RUN]
02:19:25 6 of 12 OK created sql table model public_int.int_orders ..... [SELECT 470 in 0.06s]
02:19:25 7 of 12 START sql table model public_int.int_products ..... [RUN]
02:19:25 7 of 12 OK created sql table model public_int.int_products ..... [SELECT 4 in 0.07s]
02:19:25 8 of 12 START sql table model public_fct.fct_orders ..... [RUN]
02:19:26 8 of 12 OK created sql table model public_fct.fct_orders ..... [SELECT 470 in 0.06s]
02:19:26 9 of 12 START sql table model public_int.int_order_details ..... [RUN]
02:19:26 9 of 12 OK created sql table model public_int.int_order_details ..... [SELECT 470 in 0.06s]
02:19:26 10 of 12 START sql table model public_mart.mart_finance_orders ..... [RUN]
02:19:26 10 of 12 OK created sql table model public_mart.mart_finance_orders ..... [SELECT 235 in 0.06s]
02:19:26 11 of 12 START sql table model public_mart.mart_marketing_orders ..... [RUN]
02:19:26 11 of 12 OK created sql table model public_mart.mart_marketing_orders ..... [SELECT 235 in 0.06s]
02:19:26 12 of 12 START sql table model public_fct.fct_order_details ..... [RUN]
02:19:26 12 of 12 OK created sql table model public_fct.fct_order_details ..... [SELECT 470 in 0.06s]
02:19:26
02:19:26 Finished running 1 citus materialization model, 4 view models, 7 table models in 0 hours 0 minutes and 1.32 seconds (1.32s).
02:19:26
02:19:26 Completed successfully
```



```

02:19:26
02:19:26 Done, PASS=12 WARN=0 ERROR=0 SKIP=0 TOTAL=12
02:19:30 Running with dbt=1.7.0
02:19:30 Registered adapter: postgres=1.7.0
02:19:30 Found 12 models, 36 tests, 4 sources, 0 exposures, 0 metrics, 530 macros, 0 groups, 0 semantic models
02:19:30
02:19:31 Concurrency: 1 threads (target='dev')
02:19:31
02:19:31 1 of 36 START test dbt_utils.unique_combination_of_columns fct_order_details_order_id_order_detail_id [RUN]
02:19:31 1 of 36 PASS dbt_utils.unique_combination_of_columns fct_order_details_order_id_order_detail_id [PASS in 0.06s]
02:19:31 2 of 36 START test not_null_fct_order_details_order_detail_id ..... [RUN]
02:19:31 2 of 36 PASS not_null_fct_order_details_order_detail_id ..... [PASS in 0.05s]
02:19:31 3 of 36 START test not_null_fct_orders_order_id ..... [RUN]
02:19:31 3 of 36 PASS not_null_fct_orders_order_id ..... [PASS in 0.10s]
02:19:31 4 of 36 START test not_null_int_order_details_order_detail_id ..... [RUN]
02:19:31 4 of 36 PASS not_null_int_order_details_order_detail_id ..... [PASS in 0.03s]
02:19:31 5 of 36 START test not_null_int_products_brand_name ..... [RUN]
02:19:31 5 of 36 PASS not_null_int_products_brand_name ..... [PASS in 0.03s]
02:19:31 6 of 36 START test not_null_int_products_product_name ..... [RUN]
02:19:31 6 of 36 PASS not_null_int_products_product_name ..... [PASS in 0.03s]
02:19:31 7 of 36 START test not_null_stg_brands_brand_id ..... [RUN]
02:19:31 7 of 36 PASS not_null_stg_brands_brand_id ..... [PASS in 0.03s]
02:19:31 8 of 36 START test not_null_stg_order_details_order_detail_id ..... [RUN]
02:19:31 8 of 36 PASS not_null_stg_order_details_order_detail_id ..... [PASS in 0.03s]
02:19:31 9 of 36 START test not_null_stg_orders_order_id ..... [RUN]
02:19:31 9 of 36 PASS not_null_stg_orders_order_id ..... [PASS in 0.03s]
02:19:31 10 of 36 START test not_null_stg_products_brand_id ..... [RUN]
02:19:31 10 of 36 PASS not_null_stg_products_brand_id ..... [PASS in 0.03s]
02:19:31 11 of 36 START test not_null_stg_products_product_id ..... [RUN]
02:19:31 11 of 36 PASS not_null_stg_products_product_id ..... [PASS in 0.03s]
02:19:31 12 of 36 START test source_not_null_store_brands_brand_id ..... [RUN]
02:19:31 12 of 36 PASS source_not_null_store_brands_brand_id ..... [PASS in 0.03s]
02:19:31 13 of 36 START test source_not_null_store_brands_name ..... [RUN]
02:19:31 13 of 36 PASS source_not_null_store_brands_name ..... [PASS in 0.03s]
02:19:31 14 of 36 START test source_not_null_store_order_details_order_detail_id ..... [RUN]
02:19:31 14 of 36 PASS source_not_null_store_order_details_order_detail_id ..... [PASS in 0.03s]
02:19:31 15 of 36 START test source_not_null_store_order_details_price ..... [RUN]
02:19:31 15 of 36 PASS source_not_null_store_order_details_price ..... [PASS in 0.05s]
02:19:31 16 of 36 START test source_not_null_store_order_details_quantity ..... [RUN]
02:19:31 16 of 36 PASS source_not_null_store_order_details_quantity ..... [PASS in 0.03s]
02:19:31 17 of 36 START test source_not_null_store_orders_order_date ..... [RUN]

```

```

02:19:31 16 of 36 PASS source_not_null_store_order_details_quantity ..... [PASS in 0.03s]
02:19:31 17 of 36 START test source_not_null_store_orders_order_date ..... [RUN]
02:19:31 17 of 36 PASS source_not_null_store_orders_order_date ..... [PASS in 0.03s]
02:19:31 18 of 36 START test source_not_null_store_orders_order_id ..... [RUN]
02:19:31 18 of 36 PASS source_not_null_store_orders_order_id ..... [PASS in 0.03s]
02:19:31 19 of 36 START test source_not_null_store_products_name ..... [RUN]
02:19:31 19 of 36 PASS source_not_null_store_products_name ..... [PASS in 0.03s]
02:19:31 20 of 36 START test source_not_null_store_products_price ..... [RUN]
02:19:31 20 of 36 PASS source_not_null_store_products_price ..... [PASS in 0.03s]
02:19:31 21 of 36 START test source_not_null_store_products_product_id ..... [RUN]
02:19:31 21 of 36 PASS source_not_null_store_products_product_id ..... [PASS in 0.03s]
02:19:31 22 of 36 START test source_relationships_store_order_details_order_id_order_id_source_store_orders [RUN]
02:19:31 22 of 36 PASS source_relationships_store_order_details_order_id_order_id_source_store_orders [PASS in 0.03s]
02:19:31 23 of 36 START test source_relationships_store_order_details_product_id_product_id_source_store_products [RUN]
02:19:31 23 of 36 PASS source_relationships_store_order_details_product_id_product_id_source_store_products [PASS in 0.03s]
02:19:31 24 of 36 START test source_relationships_store_products_brand_id_brand_id_source_store_brands [RUN]
02:19:31 24 of 36 PASS source_relationships_store_products_brand_id_brand_id_source_store_brands [PASS in 0.03s]
02:19:31 25 of 36 START test source_unique_store_brands_brand_id ..... [RUN]
02:19:31 25 of 36 PASS source_unique_store_brands_brand_id ..... [PASS in 0.03s]
02:19:32 26 of 36 START test source_unique_store_order_details_order_detail_id ..... [RUN]
02:19:32 26 of 36 PASS source_unique_store_order_details_order_detail_id ..... [PASS in 0.03s]
02:19:32 27 of 36 START test source_unique_store_orders_order_id ..... [RUN]
02:19:32 27 of 36 PASS source_unique_store_orders_order_id ..... [PASS in 0.03s]
02:19:32 28 of 36 START test source_unique_store_products_product_id ..... [RUN]
02:19:32 28 of 36 PASS source_unique_store_products_product_id ..... [PASS in 0.03s]
02:19:32 29 of 36 START test unique_fct_order_details_order_detail_id ..... [RUN]
02:19:32 29 of 36 PASS unique_fct_order_details_order_detail_id ..... [PASS in 0.03s]
02:19:32 30 of 36 START test unique_fct_orders_order_id ..... [RUN]
02:19:32 30 of 36 PASS unique_fct_orders_order_id ..... [PASS in 0.03s]
02:19:32 31 of 36 START test unique_int_order_details_order_detail_id ..... [RUN]
02:19:32 31 of 36 PASS unique_int_order_details_order_detail_id ..... [PASS in 0.03s]
02:19:32 32 of 36 START test unique_int_products_product_name ..... [RUN]
02:19:32 32 of 36 PASS unique_int_products_product_name ..... [PASS in 0.03s]
02:19:32 33 of 36 START test unique_stg_brands_brand_id ..... [RUN]
02:19:32 33 of 36 PASS unique_stg_brands_brand_id ..... [PASS in 0.03s]
02:19:32 34 of 36 START test unique_stg_order_details_order_detail_id ..... [RUN]
02:19:32 34 of 36 PASS unique_stg_order_details_order_detail_id ..... [PASS in 0.03s]
02:19:32 35 of 36 START test unique_stg_orders_order_id ..... [RUN]
02:19:32 35 of 36 PASS unique_stg_orders_order_id ..... [PASS in 0.03s]
02:19:32 36 of 36 START test unique_stg_products_product_id ..... [RUN]
02:19:32 36 of 36 PASS unique_stg_products_product_id ..... [PASS in 0.03s]

```

```

02:19:32
02:19:32 Finished running 36 tests in 0 hours 0 minutes and 1.49 seconds (1.49s).
02:19:32
02:19:32 Completed successfully
02:19:32
02:19:32 Done, PASS=36 WARN=0 ERROR=0 SKIP=0 TOTAL=36
○ (.venv) rismanovic@LAPTOP-U6LIFQ61:~/unit2/dbt-demo/my_project$

```

- Normalisasi nomor telepon menggunakan macro

```
dbt-demo > my_project > macros > phone_normalization.sql
1  {% macro normalize_phone_number(column_name) %}
2      ltrim({{ column_name }}, '+')
3  {% endmacro %}
```

```
! packages.yml U    ! fct_schema.yml U    phone_normalization.sql U    int_order_details.sql U X
dbt-demo > my_project > models > _int > int_order_details.sql
1  select
2      details.order_detail_id
3      , details.order_id
4      , orders.order_date
5      , orders.customer_phone
6      , {{normalize_phone_number('orders.customer_phone')}} as normalized_phone
7      , products.brand_id
8      , products.brand_name
9      , details.product_id
10     , products.product_name
11     , products.product_price
12     , details.order_qty
13     , details.unit_sales
14 from {{ ref('stg_order_details')}} as details
15 left join {{ref('int_orders')}} as orders
16     on details.order_id = orders.order_id
17 left join {{ ref('int_products')}} as products
18     on details.product_id = products.product_id
19
```

```
● (.venv) rismanovic@LAPTOP-U6LIFQGI:~/unit2/dbt-demo/my_project$ dbt run
03:05:08 Running with dbt=1.7.0
03:05:08 Registered adapter: postgres=1.7.0
03:05:09 Found 12 models, 36 tests, 4 sources, 0 exposures, 0 metrics, 531 macros, 0 groups, 0 semantic models
03:05:09 Concurrency: 1 threads (target='dev')
03:05:09
03:05:09 1 of 12 START sql citus_materialization model public_int.daily_sales ..... [RUN]
03:05:09 1 of 12 OK created sql citus_materialization model public_int.daily_sales ..... [SELECT 1 in 0.26s]
03:05:09 2 of 12 START sql view model public_stg.stg_brands ..... [RUN]
03:05:09 2 of 12 OK created sql view model public_stg.stg_brands ..... [CREATE VIEW in 0.08s]
03:05:09 3 of 12 START sql view model public_stg.stg_order_details ..... [RUN]
03:05:09 3 of 12 OK created sql view model public_stg.stg_order_details ..... [CREATE VIEW in 0.09s]
03:05:09 4 of 12 START sql view model public_stg.stg_orders ..... [RUN]
03:05:10 4 of 12 OK created sql view model public_stg.stg_orders ..... [CREATE VIEW in 0.05s]
03:05:10 5 of 12 START sql view model public_stg.stg_products ..... [RUN]
03:05:10 5 of 12 OK created sql view model public_stg.stg_products ..... [CREATE VIEW in 0.06s]
03:05:10 6 of 12 START sql table model public_int.int_orders ..... [RUN]
03:05:10 6 of 12 OK created sql table model public_int.int_orders ..... [SELECT 470 in 0.06s]
03:05:10 7 of 12 START sql table model public_int.int_products ..... [RUN]
03:05:10 7 of 12 OK created sql table model public_int.int_products ..... [SELECT 4 in 0.06s]
03:05:10 8 of 12 START sql table model public_fct.fct_orders ..... [RUN]
03:05:10 8 of 12 OK created sql table model public_fct.fct_orders ..... [SELECT 470 in 0.06s]
03:05:10 9 of 12 START sql table model public_int.int_order_details ..... [RUN]
03:05:10 9 of 12 OK created sql table model public_int.int_order_details ..... [SELECT 470 in 0.06s]
03:05:10 10 of 12 START sql table model public_mart.mart_finance_orders ..... [RUN]
03:05:10 10 of 12 OK created sql table model public_mart.mart_finance_orders ..... [SELECT 235 in 0.06s]
03:05:10 11 of 12 START sql table model public_mart.mart_marketing_orders ..... [RUN]
03:05:10 11 of 12 OK created sql table model public_mart.mart_marketing_orders ..... [SELECT 235 in 0.06s]
03:05:10 12 of 12 START sql table model public_fct.fct_order_details ..... [RUN]
03:05:10 12 of 12 OK created sql table model public_fct.fct_order_details ..... [SELECT 470 in 0.06s]
03:05:10
03:05:10 Finished running 1 citus_materialization model, 4 view models, 7 table models in 0 hours 0 minutes and 1.28 seconds (1.28s).
03:05:10 Completed successfully
03:05:10 Done. PASS=12 WARN=0 ERROR=0 SKIP=0 TOTAL=12
● (.venv) rismanovic@LAPTOP-U6LIFQGI:~/unit2/dbt-demo/my_project$
```

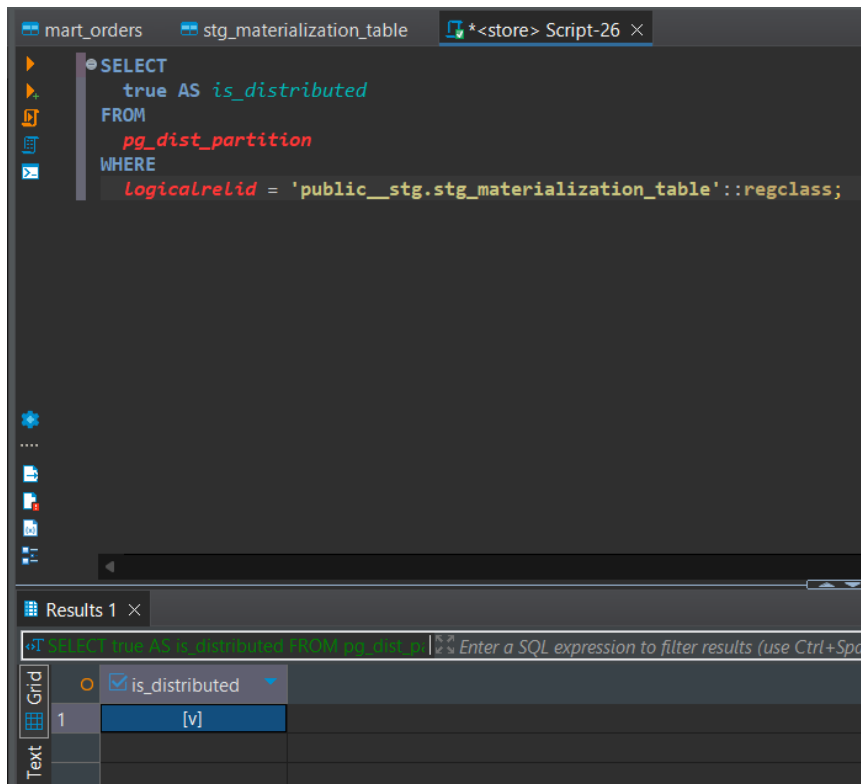


## - Materialization

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

1  {{
2      config(
3          materialized='citius_materialization',
4          distribution_column='order_date'
5      )
6  }}
7
8  WITH base AS (
9      SELECT
10         DATE(orders.order_date) AS order_date,
11         order_details.quantity,
12         order_details.price
13     FROM
14         {{ source('store', 'orders') }} AS orders
15     JOIN
16         {{ source('store', 'order_details') }} AS order_details
17     ON
18         orders.order_id = order_details.order_id
19 ),
20 aggregated_sales AS (
21     SELECT
22         order_date,
23         SUM(quantity) AS total_quantity,
24         SUM(price) AS total_revenue
25     FROM
26         base
27     GROUP BY
28         order_date
29 )
30 SELECT
31     *
32 FROM
33     aggregated_sales
34 ORDER BY
35     order_date
```

```
* (.venv) rismanovic@LAPTOP-U6LIFQ61:~/unit2/dbt-demo/my_project$ dbt run
03:28:22 Running with dbt=1.7.0
03:28:23 Registered adapter: postgres-1.7.0
03:28:23 Found 13 models, 36 tests, 4 sources, 0 exposures, 0 metrics, 531 macros, 0 groups, 0 semantic models
03:28:23
03:28:23 Concurrency: 1 threads (target='dev')
03:28:23
03:28:23 1 of 13 START sql citius_materialization model public_int.daily_sales ..... [RUN]
03:28:23 1 of 13 OK created sql citius_materialization model public_int.daily_sales ..... [SELECT 1 in 0.21s]
03:28:23 2 of 13 START sql view model public_stg.stg_brands ..... [RUN]
03:28:23 2 of 13 OK created sql view model public_stg.stg_brands ..... [CREATE VIEW in 0.07s]
03:28:23 3 of 13 START sql citius_materialization model public_stg.stg_materialization_table [RUN]
03:28:23 3 of 13 OK created sql citius_materialization model public_stg.stg_materialization_table [SELECT 1 in 0.12s]
03:28:23 4 of 13 START sql view model public_stg.stg_order_details ..... [RUN]
03:28:23 4 of 13 OK created sql view model public_stg.stg_order_details ..... [CREATE VIEW in 0.05s]
03:28:23 5 of 13 START sql view model public_stg.stg_orders ..... [RUN]
03:28:24 5 of 13 OK created sql view model public_stg.stg_orders ..... [CREATE VIEW in 0.05s]
03:28:24 6 of 13 START sql view model public_stg.stg_products ..... [RUN]
03:28:24 6 of 13 OK created sql view model public_stg.stg_products ..... [CREATE VIEW in 0.05s]
03:28:24 7 of 13 START sql table model public_int.int_orders ..... [RUN]
03:28:24 7 of 13 OK created sql table model public_int.int_orders ..... [SELECT 470 in 0.06s]
03:28:24 8 of 13 START sql table model public_int.int_products ..... [RUN]
03:28:24 8 of 13 OK created sql table model public_int.int_products ..... [SELECT 4 in 0.08s]
03:28:24 9 of 13 START sql table model public_fct.fct_orders ..... [RUN]
03:28:24 9 of 13 OK created sql table model public_fct.fct_orders ..... [SELECT 470 in 0.06s]
03:28:24 10 of 13 START sql table model public_int.int_order_details ..... [RUN]
03:28:24 10 of 13 OK created sql table model public_int.int_order_details ..... [SELECT 470 in 0.06s]
03:28:24 11 of 13 START sql table model public_mart.mart_finance_orders ..... [RUN]
03:28:24 11 of 13 OK created sql table model public_mart.mart_finance_orders ..... [SELECT 235 in 0.06s]
03:28:24 12 of 13 START sql table model public_mart.mart_marketing_orders ..... [RUN]
03:28:24 12 of 13 OK created sql table model public_mart.mart_marketing_orders ..... [SELECT 235 in 0.05s]
03:28:24 13 of 13 START sql table model public_fct.fct_order_details ..... [RUN]
03:28:24 13 of 13 OK created sql table model public_fct.fct_order_details ..... [SELECT 470 in 0.05s]
03:28:24
03:28:24 Finished running 2 citius_materialization models, 4 view models, 7 table models in 0 hours 0 minutes and 1.28 seconds (1.28s).
03:28:24
03:28:24 Completed successfully
03:28:24
03:28:24 Done, PASS=13 WARN=0 ERROR=0 SKIP=0 TOTAL=13
* (.venv) rismanovic@LAPTOP-U6LIFQ61:~/unit2/dbt-demo/my_project$
```



- Generating documentation
  - o dbt docs generate

```
(.venv) rismanovic@LAPTOP-U6LIFQG1:~/unit2/dbt-demo/my_project$ dbt docs generate
03:40:59 Running with dbt=1.7.0
03:40:59 Registered adapter: postgres=1.7.0
03:40:59 Found 13 models, 36 tests, 4 sources, 0 exposures, 0 metrics, 531 macros, 0 groups, 0 semantic models
03:40:59 Concurrency: 1 threads (target='dev')
03:40:59 Building catalog
03:41:00 Catalog written to /home/rismanovic/unit2/dbt-demo/my_project/target/catalog.json
```

- o dbt docs serve

```
(.venv) rismanovic@LAPTOP-U6LIFQG1:~/unit2/dbt-demo/my_project$ dbt docs serve
03:41:16 Running with dbt=1.7.0
Serving docs at 8080
To access from your browser, navigate to: http://localhost:8080

Press Ctrl+C to exit.
127.0.0.1 - - [05/Aug/2024 10:41:21] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [05/Aug/2024 10:41:21] "GET /manifest.json?cb=1722829281411 HTTP/1.1" 200 -
127.0.0.1 - - [05/Aug/2024 10:41:21] "GET /catalog.json?cb=1722829281411 HTTP/1.1" 200 -
```

dbt Docs

localhost:8080/#/overview

dbt

Search for models...

Overview

Project Database Group

Sources

- store

Projects

- my\_project
- dbt\_utils

**Welcome!**

Welcome to the auto-generated documentation for your dbt project!

**Navigation**

You can use the *Project* and *Database* navigation tabs on the left side of the window to explore the models in your project.

**Project Tab**

The *Project* tab mirrors the directory structure of your dbt project. In this tab, you can see all of the models defined in your dbt project, as well as models imported from dbt packages.

**Database Tab**

The *Database* tab also exposes your models, but in a format that looks more like a database explorer. This view shows relations (tables and views) grouped into database schemas. Note that ephemeral models are *not* shown in this interface, as they do not exist in the database.

**Graph Exploration**

You can click the blue icon on the bottom-right corner of the page to view the lineage graph of your models.

On model pages, you'll see the immediate parents and children of the model you're exploring. By clicking the *Expand* button at the top-right of this lineage pane, you'll be able to see all of the models that are used to build, or are built from, the model you're exploring.

