


1. Make a model named on `stg_order_details` containing the following info:


- order_date
- quantity
- price
- brand name
- product name

my_project > models > store >  stg_order_details.sql

```


1  select
2      orders.order_date
3      , details.quantity
4      , details.price
5      , brands.name as brand_name
6      , products.name as product_name
7  from {{source('store','order_details')}} as details
8  left join {{source('store','products')}} as products
9      on details.product_id = products.product_id
10 left join {{source('store','brands')}} as brands
11     on brands.brand_id = products.brand_id
12 left join {{source('store','orders')}} as orders
13     on orders.order_id = details.order_id

```

stg_order_details  Enter a SQL expression to filter results (use Ctrl+Space)						
	order_date	123 quantity	123 price	ABC brand_name	ABC product_name	
1	2024-04-14 22:44:21.651	8	3,999.92	Sony	PlayStation 5	
2	2024-04-14 11:49:41.349	8	6,399.92	Apple	iPhone 13	
3	2024-04-14 01:14:23.847	1	699.99	Samsung	Galaxy S21	
4	2024-04-14 15:26:15.162	3	2,099.97	Samsung	Galaxy S21	
5	2024-04-14 08:28:21.566	7	3,499.93	Sony	PlayStation 5	
6	2024-04-14 20:39:28.649	6	7,799.94	Apple	MacBook Pro	
7	2024-04-14 07:39:29.854	2	999.98	Sony	PlayStation 5	
8	2024-04-14 22:34:43.953	5	3,999.95	Apple	iPhone 13	
9	2024-04-14 00:28:38.024	1	699.99	Samsung	Galaxy S21	
10	2024-04-14 16:09:27.800	6	4,799.94	Apple	iPhone 13	
11	2024-04-14 13:53:20.826	6	4,799.94	Apple	iPhone 13	
12	2024-04-14 16:59:33.734	9	6,299.91	Samsung	Galaxy S21	
13	2024-04-14 00:48:59.882	3	2,399.97	Apple	iPhone 13	
14	2024-04-14 13:00:16.353	2	1,399.98	Samsung	Galaxy S21	
15	2024-04-14 17:45:01.715	9	6,299.91	Samsung	Galaxy S21	
16	2024-04-14 16:40:55.459	8	6,399.92	Apple	iPhone 13	
17	2024-04-14 01:45:43.386	1	1,299.99	Apple	MacBook Pro	
18	2024-04-14 13:53:43.278	1	799.99	Apple	iPhone 13	
19	2024-04-14 13:51:37.062	4	2,799.96	Samsung	Galaxy S21	
20	2024-04-14 21:43:50.396	10	4,999.9	Sony	PlayStation 5	
21	2024-04-14 16:19:52.875	10	4,999.9	Sony	PlayStation 5	
22	2024-04-14 05:00:38.684	1	799.99	Apple	iPhone 13	
23	2024-04-14 11:49:26.988	5	2,499.95	Sony	PlayStation 5	
24	2024-04-14 15:42:53.537	10	12,999.9	Apple	MacBook Pro	
25	2024-04-14 21:07:55.105	2	999.98	Sony	PlayStation 5	
26	2024-04-14 12:19:20.730	3	2,099.97	Samsung	Galaxy S21	
27	2024-04-14 09:09:52.173	6	2,999.94	Sony	PlayStation 5	
28	2024-04-14 12:06:41.426	9	4,499.91	Sony	PlayStation 5	
29	2024-04-14 16:19:39.271	5	3,999.95	Apple	iPhone 13	
30	2024-04-14 21:27:52.839	8	6,399.92	Apple	iPhone 13	
31	2024-04-14 02:54:48.244	5	3,999.95	Apple	iPhone 13	


2. Base on `stg_order_details`, make another model named `fct_per_brand_daily_sales` containing per brand daily sales:

- brand_name
- order_date
- total_quantity
- total_revenue

```
my_project > models > store_analytics >  int_order_details.sql
1  select
2      details.brand_name
3      , details.order_date
4      , sum(details.quantity) as total_quantity
5      , sum(details.price) as total_revenue
6  from {{ref('stg_order_details')}} as details
7  group by
8      details.brand_name
9      , details.order_date
10
11
```

Sesuai dengan intruksi mentor, saya terlebih dahulu membuat model bernama int_order_details yang terdiri dari beberapa kolom yaitu brand_name, order_date, total_quantity dan total revenue. kolom-kolom tersebut diambil dari stg_order_details

khusus kolom total_quantity dan total revenue kita menambahkan perintah sum

```
my_project > models > mart >  fct_per_brand_daily_sales.sql
1  select * from {{ref('int_order_details')}}

```

Setelah membuat model int_order_details, saya membuat model fct_per_brand_daily_sales pada folder mart

fct_per_brand_daily_sales Enter a SQL expression to filter results (use Ctrl+Space)					
Grid	brand_name	order_date	total_quantity	total_revenue	
1	Apple	2024-04-17 21:37:02.492	9	7,199.91	
2	Apple	2024-04-27 03:35:52.176	8	10,399.92	
3	Apple	2024-04-14 11:49:41.349	8	6,399.92	
4	Sony	2024-04-23 18:36:04.189	6	2,999.94	
5	Sony	2024-04-24 11:06:04.296	5	2,499.95	
6	Samsung	2024-04-21 05:30:14.087	5	3,499.95	
7	Samsung	2024-04-14 12:19:20.730	3	2,099.97	
8	Sony	2024-04-17 16:58:53.423	2	999.98	
9	Apple	2024-04-18 13:16:54.556	4	3,199.96	
10	Apple	2024-04-18 01:16:40.633	2	2,599.98	
11	Sony	2024-04-17 00:50:34.333	3	1,499.97	
12	Apple	2024-04-23 04:20:53.681	2	2,599.98	
13	Apple	2024-04-20 16:13:13.771	8	6,399.92	
14	Samsung	2024-04-18 00:22:22.911	8	5,599.92	
15	Apple	2024-04-16 23:01:28.440	10	7,999.9	
16	Sony	2024-04-24 00:04:59.010	10	4,999.9	
17	Samsung	2024-04-17 15:43:58.904	5	3,499.95	
18	Apple	2024-04-19 09:48:56.627	3	2,399.97	
19	Apple	2024-04-19 23:54:02.975	1	1,299.99	
20	Sony	2024-04-20 07:27:04.120	8	3,999.92	
21	Apple	2024-04-27 08:43:04.314	8	6,399.92	
22	Apple	2024-04-26 13:20:06.640	7	9,099.93	
23	Samsung	2024-04-24 06:02:49.930	6	4,199.94	
24	Sony	2024-04-18 18:53:50.861	4	1,999.96	
25	Samsung	2024-04-24 16:53:39.650	3	2,099.97	
26	Apple	2024-04-16 22:39:06.324	5	3,999.95	
27	Apple	2024-04-16 23:48:01.430	8	6,399.92	
28	Sony	2024-04-16 16:27:24.547	2	999.98	
29	Apple	2024-04-24 08:56:16.507	3	3,899.97	
30	Sony	2024-04-26 22:52:52.693	10	4,999.9	
31	Apple	2024-04-16 14:22:17.202	7	5,599.93	

Ini adalah model dari fct_per_brand_daily_sales pada data warehouse saya

3. Add test to make sure that `fct_per_brand_daily_sales` has `unique combination` of `order_date` and `brand_name`

```

my_project > models > mart > ! mart_schema.yml
1  version: 2
2
3  models:
4    - name: fct_per_brand_daily_sales
5      description: "daily sales mart area "
6      tests:
7        - dbt_utils.unique_combination_of_columns:
8          combination_of_columns:
9            - order_date
10           - brand_name
11

```

```

Ahmad Fathoni A@Laptoptoni MINGW64 /c/Alterra/dbt-demo-exc/my_project
$ dbt test
16:33:18 Running with dbt=1.7.13
16:33:18 Registered adapter: postgres=1.7.13
16:33:19 Found 8 models, 24 tests, 4 sources, 0 exposures, 0 metrics, 517 macros, 0 groups, 0 semantic models
16:33:19 Concurrency: 1 threads (target='dev')
16:33:19
16:33:19 1 of 24 START test dbt_utils.unique_combination_of_columns_fct_per_brand_daily_sales_order_date__brand_name [RUN]
16:33:19 1 of 24 PASS dbt_utils.unique_combination_of_columns_fct_per_brand_daily_sales_order_date__brand_name [PASS in 0.17s]

```

```

my_project > ! packages.yml
1  packages:
2    - package: dbt-labs/dbt_utils
3      version: 1.1.1

```

Sebelumnya saya telah menginstall dbt utils menggunakan packages seperti contoh diatas, saya menginstall dbt utils menggunakan perintah dbt deps