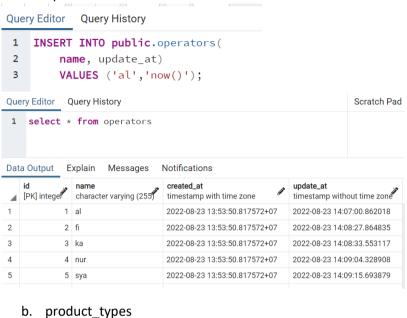
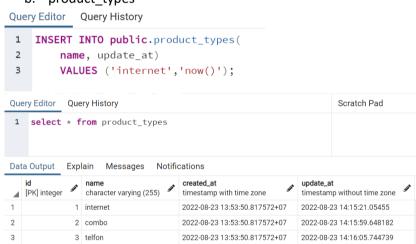
Database

1. Insert







- c. insert products 1,3 menjadi satu gambar
- d. insert products 2,1 menjadi satu gambar
- e. insert products 3.4 meniadi satu gambar

Que	ry Editor C	Query History					Scratch Pad	×
1 2 3 4 5	prod VALU select *	- , , - ,	operator_ fon60','pa ts;	ket telfon 60 me	status, update_at)		
4	id [PK] integer	product_type_id_integer	,		name character varying (100)	status smallint	created_at timestamp with time zone	update_at timestamp without
1	6	1	3	freedom7	internet 7 hari	1	2022-08-23 13:53:50.8175	2022-08-23 15:01:5
2	7	1	3	freedom15	internet 15 hari	1	2022-08-23 13:53:50.8175	2022-08-23 15:02:26
3	8	1	3	freedom30	internet 30 hari	1	2022-08-23 13:53:50.8175	2022-08-23 15:02:53
4	9	2	1	combo7	paket combo 7 hari	1	2022-08-23 13:53:50.8175	2022-08-23 15:05:29
5	10	2	1	combo15	paket combo 15 hari	1	2022-08-23 13:53:50.8175	2022-08-23 15:05:51
6	11	2	1	combo30	paket combo 30 hari	1	2022-08-23 13:53:50.8175	2022-08-23 15:06:02
7	12	3	4	telfon10	paket telfon 10 menit	1	2022-08-23 13:53:50.8175	2022-08-23 15:06:54
8	13	3	4	telfon30	paket telfon 30 menit	1	2022-08-23 13:53:50.8175	2022-08-23 15:07:10
9	14	3		telfon60	paket telfon 60 menit		2022-08-23 13:53:50.8175	2022-08-23 15:07:37

product descriptions

```
Query Editor
               Query History
1
     INSERT INTO public.product_descriptions(
 2
           id, description, update_at)
 3
          VALUES (14, 'paket telfon semua opt. 60 menit selama 15 hari', 'now');
 4
 5
     select * from product_descriptions;
Data Output
              Explain
                         Messages
                                       Notifications
    id
   intege
             description
                                        created at
                                                                        update_at
                                                                        timestamp without time zone
             text
                                        timestamp with time zone
          6 paket internet 7 hari 24 jam
                                        2022-08-23 13:53:50.817572+07
                                                                        2022-08-23 15:14:21.182129
2
          7 paket internet 15 hari 24 jam 2022-08-23 13:53:50.817572+07
                                                                        2022-08-23 15:23:13.533151
3
          8 paket internet 30 hari 24 jam 2022-08-23 13:53:50.817572+07
                                                                        2022-08-23 15:23:27.462998
4
          9 paket internet combo 7 hari ... 2022-08-23 13:53:50.817572+07
                                                                        2022-08-23 15:23:49.021607
5
         10 paket internet combo 15 har... 2022-08-23 13:53:50.817572+07
                                                                        2022-08-23 15:23:59.736779
6
         11 paket internet combo 30 har... 2022-08-23 13:53:50.817572+07
                                                                        2022-08-23 15:24:16.700907
7
         12 paket telfon semua opt. 10 ... 2022-08-23 13:53:50.817572+07
                                                                        2022-08-23 15:25:21.762735
8
         13 paket telfon semua opt. 30 ... 2022-08-23 13:53:50.817572+07
                                                                        2022-08-23 15:25:37.556535
9
         14 paket telfon semua opt. 60 ... 2022-08-23 13:53:50.817572+07
                                                                        2022-08-23 15:25:47.15256
```

g. payment_methods

```
Query Editor
              Query History
 1
     INSERT INTO public.payment methods(
 2
          name, status, update_at)
          VALUES ('paylater',1,'now');
 3
 4
 5
    select * from payment_methods;
Data Output Explain Messages
                                    Notifications
           name
                                  status
                                           created_at
                                                                          update_at
                                  smallint
   [PK] integ character varying (255)
                                                                         timestamp without time zone
                                           timestamp with time zone
          1 cash
                                         1 2022-08-23 13:53:50.817572+07
                                                                         2022-08-23 15:30:36.381965
2
          2 gris bank
                                         1 2022-08-23 13:53:50.817572+07
                                                                         2022-08-23 15:31:15.808355
                                         1 2022-08-23 13:53:50.817572+07
                                                                         2022-08-23 15:31:34.793166
          3 paylater
```

Users h.

Quer	y Editor Query History
1	<pre>INSERT INTO public.users(</pre>
2	status, dob, gender, update_at)
3	VALUES (1, '2022-08-15','P', 'now()');
4	
5	<pre>select * from users;</pre>

Dat	Data Output Explain Messages Notifications									
4	id [PK] integer	status smallint	dob date	gender character (1)	created_at timestamp with time zone	update_at timestamp without time zone				
1	1	1	2022-06-22	L	2022-08-23 13:53:50.817572+07	2022-08-23 15:36:46.917139				
2	2	1	2022-06-25	Р	2022-08-23 13:53:50.817572+07	2022-08-23 15:37:22.92164				
3	3	1	2022-07-27	L	2022-08-23 13:53:50.817572+07	2022-08-23 15:38:21.768272				
4	4	1	2022-08-01	L	2022-08-23 13:53:50.817572+07	2022-08-23 15:38:40.011058				
5	5	1	2022-08-15	Р	2022-08-23 13:53:50.817572+07	2022-08-23 15:38:53.693479				

i. Transactions

Quer	y Editor Qu	iery Histo	ry					Scratch Pad
1 2 3	user_	id, pay	ric.transactions rment_method_id, rment_method_id, rment_method_id,	status, total_q	ty, tota	l_price, upo	date_at)	
Data	Output Ex	plain M user_id	lessages Notificat		total atv	total_price	created at	update_at
4	[PK] integer	integer	integer	character varying (10)	total_qty integer	numeric (25,2)	timestamp with time zone	timestamp without time zone
1	1	1	2	1	2	20000.00	2022-08-23 13:53:50.817572+0	7 2022-08-23 15:43:53.327599
2	2	1	1	1	1	15000.00	2022-08-23 13:53:50.817572+0	7 2022-08-23 15:44:35.744331
3	3	1	3	1	3	45000.00	2022-08-23 13:53:50.817572+0	7 2022-08-23 15:45:06.867561
4	4	2	1	1	1	55000.00	2022-08-23 13:53:50.817572+0	7 2022-08-23 15:45:28.195678
5	5	2	2	1	2	65000.00	2022-08-23 13:53:50.817572+0	7 2022-08-23 15:45:41.335299
6	6	2	3	1	1	85000.00	2022-08-23 13:53:50.817572+0	7 2022-08-23 15:45:51.653631
7	7	3	1	1	1	35000.00	2022-08-23 13:53:50.817572+0	7 2022-08-23 15:46:08.107873
8	8	3	2	1	3	85000.00	2022-08-23 13:53:50.817572+0	7 2022-08-23 15:46:17.212896
9	9	3	3	1	4	13000.00	2022-08-23 13:53:50.817572+0	7 2022-08-23 15:46:49.863999
10	10	4	1	1	5	44000.00	2022-08-23 13:53:50.817572+0	7 2022-08-23 15:47:02.803649
11	11	4	2	1	4	4000.00	2022-08-23 13:53:50.817572+0	7 2022-08-23 15:47:17.215832
12	12	4	3	1	9	100000.00	2022-08-23 13:53:50.817572+0	7 2022-08-23 15:47:28.035777
13	13	5	1	1	4	50000.00	2022-08-23 13:53:50.817572+0	7 2022-08-23 15:47:46.886366
14	14	5	2	1	3	780000.00	2022-08-23 13:53:50.817572+0	7 2022-08-23 15:47:57.201411

j. Transaction_detail

Quer	y Editor Query History	Scratch Pad
1	<pre>INSERT INTO public.transaction_details(</pre>	
2	transaction_id, product_id, status, qty, price ,update_at)	
3	<pre>select id, 7, status,total_qty,total_price, 'now()'</pre>	
4	from transactions	
5	where id = 1;	
6		
7	<pre>select * from transaction_details;</pre>	

1 1 6 1 2 20000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:16:02.790 2 1 9 1 2 20000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:20:50.324 3 1 7 1 2 20000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:21:00.640 4 2 3 1 15000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:22:49.829 5 2 10 1 15000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:22:56.358 6 2 12 1 15000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:23:03.039 7 3 12 1 3 45000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:23:12.395 8 3 3 1 3 45000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:23:23.019 9 3 6 1 3 45000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:23:23.019	Data	Data Output Explain Messages Notifications								
2 1 9 1 2 20000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:20:50.324 3 1 7 1 2 20000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:21:00.640 4 2 3 1 1 15000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:22:49.829 5 2 10 1 15000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:22:56.358 6 2 12 1 15000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:23:03.039 7 3 12 1 3 45000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:23:12.395 8 3 3 1 3 45000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:23:17.558 9 3 6 1 3 45000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:23:23.019	4			status character varying (10)	qty intege	price numeric (25,2)		update_at timestamp without time zone		
3 1 7 1 2 20000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:21:00.640 4 2 3 1 15000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:22:49.829 5 2 10 1 15000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:22:56.358 6 2 12 1 15000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:23:03.039 7 3 12 1 3 45000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:23:12.395 8 3 3 1 3 45000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:23:17.558 9 3 6 1 3 45000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:23:23.019	1	1	6	1	2	20000.00	2022-08-23 13:53:50.817572+07	2022-08-23 16:16:02.790864		
4 2 3 1 15000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:22:49.829 5 2 10 1 15000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:22:56.358 6 2 12 1 15000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:23:03.039 7 3 12 1 3 45000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:23:12.395 8 3 3 1 3 45000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:23:17.558 9 3 6 1 3 45000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:23:23.019	2	1	9	1	2	20000.00	2022-08-23 13:53:50.817572+07	2022-08-23 16:20:50.324934		
5 2 10 1 15000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:22:56.358 6 2 12 1 15000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:23:03.039 7 3 12 1 3 45000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:23:12.395 8 3 3 1 3 45000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:23:17.558 9 3 6 1 3 45000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:23:23.019	3	1	7	1	2	20000.00	2022-08-23 13:53:50.817572+07	2022-08-23 16:21:00.64047		
6 2 12 1 1 15000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:23:03.039 7 3 12 1 3 45000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:23:12.395 8 3 3 1 3 45000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:23:17.558 9 3 6 1 3 45000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:23:23.019	4	2	3	1	1	15000.00	2022-08-23 13:53:50.817572+07	2022-08-23 16:22:49.8295		
7 3 12 1 3 45000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:23:12.395 8 3 3 1 3 45000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:23:17.558 9 3 6 1 3 45000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:23:23.019	5	2	10	1	1	15000.00	2022-08-23 13:53:50.817572+07	2022-08-23 16:22:56.358431		
8 3 3 1 3 45000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:23:23.019 9 3 6 1 3 45000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:23:23.019	6	2	12	1	1	15000.00	2022-08-23 13:53:50.817572+07	2022-08-23 16:23:03.039286		
9 3 6 1 3 45000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:23:23.019	7	3	12	1	3	45000.00	2022-08-23 13:53:50.817572+07	2022-08-23 16:23:12.395734		
	8	3	3	1	3	45000.00	2022-08-23 13:53:50.817572+07	2022-08-23 16:23:17.558197		
	9	3	6	1	3	45000.00	2022-08-23 13:53:50.817572+07	2022-08-23 16:23:23.019734		
10 4 6 1 1 55000.00 2022-08-23 13:53:50.817572+07 2022-08-23 16:24:01.081	10	4	6	1	1	55000.00	2022-08-23 13:53:50.817572+07	2022-08-23 16:24:01.081457		

2. Select

a. User dengan gender Laki /L

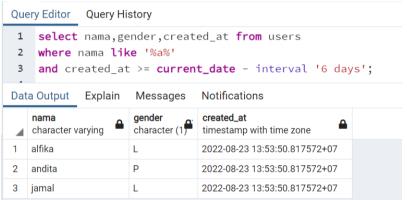
id [PK] integer	status smallint	dob date	gender character (1)	created_at timestamp with time zone	update_at timestamp without time zone	nama character varying
1	1	2022-06-22	L	2022-08-23 13:53:50.817572+07	2022-08-23 15:36:46.917139	alfika
2	1	2022-06-25	Р	2022-08-23 13:53:50.817572+07	2022-08-23 15:37:22.92164	andita
3	1	2022-07-27	L	2022-08-23 13:53:50.817572+07	2022-08-23 15:38:21.768272	kunis
4	1	2022-08-01	L	2022-08-23 13:53:50.817572+07	2022-08-23 15:38:40.011058	jamal
5	1	2022-08-15	Р	2022-08-23 13:53:50.817572+07	2022-08-23 15:38:53.693479	eko



b. Product dengan id =3



c. Pelanggan 7 hari yang lalu dengan nama mengandung huruf "a"



d. Hitung jumlah user dengan gender perempuan



e. Tampilkan data user sesuai abjad

1	select nama, g	gender ,id	from users	order by nama
Dat	a Output Explain	Messages	Notifications	8
4	nama character varying	gender character (1)	id [PK] integer	
1	alfika	L	1	
2	andita	Р	2	
3	eko	Р	5	
4	jamal	L	4	
5	kunis	L	3	

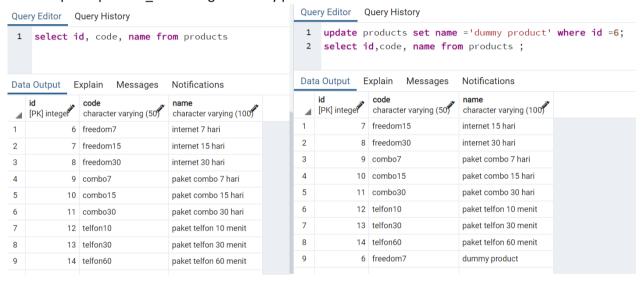
Day6-Database Task-Manipulation AlfikaNMuis

f. Tampilkan 5 data pada product

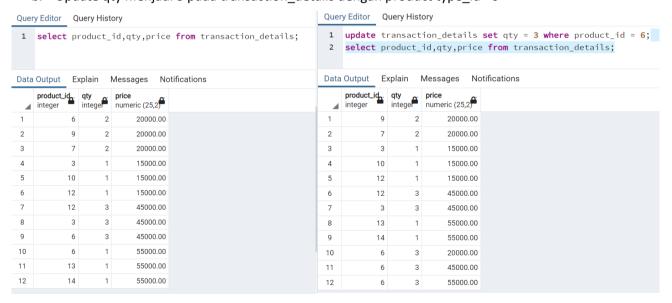
Que	ery Editor C	uery History					Scratch Pad		
1 Dat	1 select * from products limit 5; Data Output Explain Messages Notifications								
4	id [PK] integer	product_type_id_integer	,		name character varying (100)	status smallint	created_at timestamp with time zone		
1	6	1	3	freedom7	internet 7 hari	1	2022-08-23 13:53:50.817572-		
2	7	1	3	freedom15	internet 15 hari	1	2022-08-23 13:53:50.817572-		
3	8	1	3	freedom30	internet 30 hari	1	2022-08-23 13:53:50.817572-		
4	9	2	1	combo7	paket combo 7 hari	1	2022-08-23 13:53:50.817572+		
5	10	2	1	combo15	paket combo 15 hari	1	2022-08-23 13:53:50.817572+		

3. Update

a. Update product_id =1 dengan dummy product

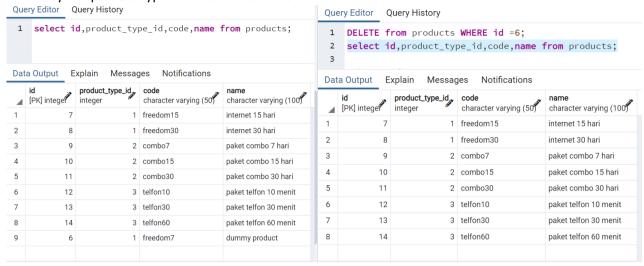


b. Update qty menjadi 3 pada transaction_details dengan product type_id =6

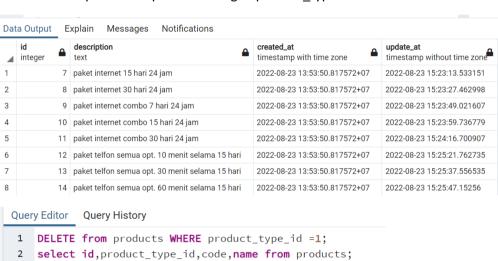


4. Delete

Delete data pada table poducts dengan id 6
 Syarat product type id delete on cascade



b. Delete pada table products dengan product_types = 1



3 Dat	a Output E	xplain Messag	es Notifications	
4	id [PK] integer	product_type_id_integer	code character varying (50)	name character varying (100)
1	9	2	combo7	paket combo 7 hari
2	10	2	combo15	paket combo 15 hari
3	11	2	combo30	paket combo 30 hari
4	12	3	telfon10	paket telfon 10 menit
5	13	3	telfon30	paket telfon 30 menit
6	14	3	telfon60	paket telfon 60 menit

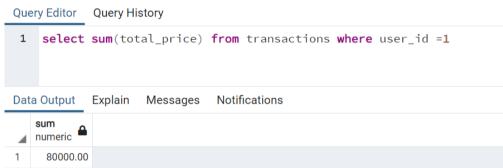
Join, Union, Sub-query, Function

1. Gabungkan data transaksi user_id 1 dan user_id 2

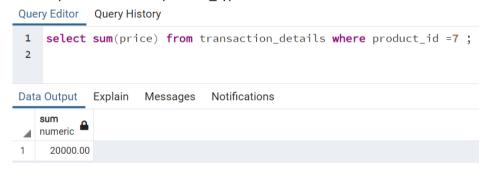


		•	3					
4	id integer	user_id integer	payment_method_id_ integer	status character varying (10)	total_qty_integer	total_price numeric (25,2)	created_at timestamp with time zone	updat times
1	3	1	3	1	3	45000.00	2022-08-23 13:53:50.817572+07	2022-
2	1	1	2	1	2	20000.00	2022-08-23 13:53:50.817572+07	2022-
3	2	1	1	1	1	15000.00	2022-08-23 13:53:50.817572+07	2022-
4	6	2	3	1	1	85000.00	2022-08-23 13:53:50.817572+07	2022-
5	5	2	2	1	2	65000.00	2022-08-23 13:53:50.817572+07	2022-
6	4	2	1	1	1	55000.00	2022-08-23 13:53:50.817572+07	2022-

2. Tampilkan jumlah harga transaksi uder_id = 1



3. Tampil data transaksi product_type 7



4. Tampilkan produk dan tipe produk yang berhubungan

Que	Query Editor Query History								
1 2 3	<pre>select t.product_type_id, t.code,t.name,p.name from product_types p inner join products t on t.product_type_id = p.id</pre>								
Dat	a Output Expla	ain Messages No	otifications						
4	product_type_id integer	code character varying (50)	name character varying (100)	name character varying (255)					
1		combo7	paket combo 7 hari	combo					

4	integer	character varying (50)	character varying (100)	character varying (255)
1	2	combo7	paket combo 7 hari	combo
2	2	combo15	paket combo 15 hari	combo
3	2	combo30	paket combo 30 hari	combo
4	3	telfon10	paket telfon 10 menit	telfon
5	3	telfon30	paket telfon 30 menit	telfon
6	3	telfon60	paket telfon 60 menit	telfon

5. Tampilan transaksi, nama produk, nama user

Query Editor Query History

```
SELECT c.nama,p.name,a.qty,a.price FROM transactions t
RIGHT JOIN users AS c ON c.id = t.id
RIGHT JOIN transaction_details As a On a.transaction_id = t.id
RIGHT JOIN products AS p ON p.id = a.product_id
ORDER BY c.nama
Data Output Explain Messages Notifications
```

4	nama character varying	name character varying (100)	qty intege	price numeric (25,2)
1	alfika	paket combo 7 hari	2	20000.00
2	andita	paket combo 15 hari	1	15000.00
3	andita	paket telfon 10 menit	1	15000.00
4	jamal	paket telfon 60 menit	1	55000.00
5	jamal	paket telfon 30 menit	1	55000.00
6	kunis	paket telfon 10 menit	3	45000.00
7	[null]	paket combo 30 hari	[null]	[null]

6. fungsi hapus transaksi dan transaksi detail berdasarkan id transaksi

```
Query Editor Query History
 1 CREATE OR REPLACE FUNCTION delete_transaction(user_id integer)
 2
   LANGUAGE plpgsql
3
   as $$
4 ▼ BEGIN
 5
        DELETE FROM transaction_details
 6
        WHERE transaction_id = user_id;
7
 8
        DELETE FROM transactions
9
        WHERE id = user id;
10
11
        commit;
12
        Return void;
13
   END; $$
```

7. fungsi hapus detail transaksi dan total_qty terupdate

Query Editor Query History

```
1 CREATE OR REPLACE FUNCTION delete_transaction_details(user_id integer)
2 LANGUAGE plpgsql
3 as $$
4 Declare reduce integer
5 ▼ BEGIN
7
        SET reduce = (SELECT total_qty FROM transactions WHERE id = user_id);
8
       SET reduce = reduce - (SELECT qty FROM transaction_detail WHERE id = user_id);
9
10
       DELETE FROM transaction_details WHERE transaction_id = user_id;
11
12
       UPDATE transactions SET total_qty = reduce WHERE id = user_id;
13
14 END; $$
```

8. data product yang tidak pernah ada di transaction_details

5 select * from products
6 where id not in (select product_id from transaction_details);

Data Output Explain Messages Notifications										
4	id [PK] integer	product_type_id_ integer	operator_id integer	code character varying (50)	name character varying (100)	status smallint	created_at timestamp with time zone	update_at timestamp witho		
1	11	2	1	combo30	paket combo 30 hari	1	2022-08-23 13:53:50.817572+07	2022-08-23 15:0		