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Task : Join, Union, Agregasi, Subquery, Function (DBMS)

1. Insert

    A. Insert 5 operators pada table operators

```
MariaDB [alta_online_shop]> insert into operator (name) values
    -> ('Telkomsel'),
    -> ('Indosat Ooredoo'),
    -> ('Smartfren'),
    -> ('Tri'),
    -> ('XL');
Query OK, 5 rows affected (0.011 sec)
Records: 5  Duplicates: 0  Warnings: 0

MariaDB [alta_online_shop]> select * from operator;
+----+----------------+
| id | name           |
+----+----------------+
|  1 | Telkomsel      |
|  2 | Indosat Ooredoo |
|  3 | Smartfren      |
|  4 | Tri            |
|  5 | XL             |
+----+----------------+
5 rows in set (0.007 sec)
```

    B. Insert 3 product type .

```
MariaDB [alta_online_shop]> insert into product_type (name) values
    -> ('Paket Internet'),
    -> ('Pulsa'),
    -> ('Paket Nelpon');
Query OK, 3 rows affected (0.008 sec)
Records: 3  Duplicates: 0  Warnings: 0

MariaDB [alta_online_shop]> select * from product_type;
+----+----------------+
| id | name           |
+----+----------------+
|  1 | Paket Internet |
|  2 | Pulsa          |
|  3 | Paket Nelpon   |
+----+----------------+
3 rows in set (0.000 sec)
```

    C. Insert 2 product dengan product type id = 1 , dan operators id = 3 .

```
MariaDB [alta_online_shop]> insert into products (name, product_type_id, operator_id,description_id,status,code) values
    -> ('Paket Unlimited Nonstop 2 GB', 1, 3, 1, 1, '*123*4#'),
    -> ('Paket Unlimited Nonstop 6 GB', 1, 3, 2, 1, '*123*5#'),
    -> ('Paket Unlimited Nonstop 12 GB', 1, 3, 3, 1, '*123*6#');
Query OK, 3 rows affected (0.007 sec)
Records: 3  Duplicates: 0  Warnings: 0

MariaDB [alta_online_shop]> select * from products;
+----+-------------------------------+-----------------+-------------+----------------+--------+---------+
| id | name                          | product_type_id | operator_id | description_id | status | code    |
+----+-------------------------------+-----------------+-------------+----------------+--------+---------+
|  7 | Paket Unlimited Nonstop 2 GB  |               1 |           3 |              1 |      1 | *123*4# |
|  8 | Paket Unlimited Nonstop 6 GB  |               1 |           3 |              2 |      1 | *123*5# |
|  9 | Paket Unlimited Nonstop 12 GB |               1 |           3 |              3 |      1 | *123*6# |
+----+-------------------------------+-----------------+-------------+----------------+--------+---------+
3 rows in set (0.000 sec)
```

    D. Insert 3 product dengan product type id = 2 , dan operators id = 1 .

```
MariaDB [alta_online_shop]> insert into products (name, product_type_id, operator_id,description_id,status,code) values
    -> ('Pulsa Telkomsel 10000', 2, 1, 3, 1, '*888#'),
    -> ('Pulsa Telkomsel 20000', 2, 1, 4, 1, '*888#'),
    -> ('Pulsa Telkomsel 50000', 2, 1, 5, 1, '*888#');
Query OK, 3 rows affected (0.007 sec)
Records: 3  Duplicates: 0  Warnings: 0
```

    E. Insert 3 product dengan product type id = 3 , dan operators id = 4 .

```
MariaDB [alta_online_shop]> insert into products (name, product_type_id, operator_id,description_id,status,code) values
    -> ('Paket nelpon semua operaor 60 menit', 3, 4, 6, 1, '*123#'),
    -> ('Paket nelpon sesama tri 150 menit', 3, 4, 7, 1, '*123#'),
    -> ('Paket bebas bicara 200 menit', 3, 4, 8, 1, '*123#');
Query OK, 3 rows affected (0.007 sec)
Records: 3  Duplicates: 0  Warnings: 0
```

F. Insert product description pada setiap product .

```
MariaDB [alta_online_shop]> insert into product_descriptions (description) values
    -> ('Paket internet unlimited nostop 2gb'),
    -> ('Paket internet unlimited nostop 6gb'),
    -> ('Paket internet unlimited nostop 12gb');
Query OK, 3 rows affected (0.008 sec)
Records: 3  Duplicates: 0  Warnings: 0

MariaDB [alta_online_shop]> insert into product_descriptions (description) values
    -> ('Pulsa telkomsel dengan harga 10000'),
    -> ('Pulsa telkomsel dengan harga 20000'),
    -> ('Pulsa telkomsel dengan harga 50000');
Query OK, 3 rows affected (0.007 sec)
Records: 3  Duplicates: 0  Warnings: 0

MariaDB [alta_online_shop]> insert into product_descriptions (description) values
    -> ('Paket telepon Tri semua operator selama 60 menit'),
    -> ('Paket telepon Tri sesama Tri selama 150 menit'),
    -> ('Paket bebas bicara tri selama 200 menit');
Query OK, 3 rows affected (0.007 sec)
Records: 3  Duplicates: 0  Warnings: 0
```

G. Insert 3 payment methods .

```
MariaDB [alta_online_shop]> select * from payment_method;
+----+---------------+--------+
| id | name          | status |
+----+---------------+--------+
|  1 | Transfer Bank |      1 |
|  2 | E-Wallet      |      1 |
|  3 | Credit Card   |      1 |
+----+---------------+--------+
3 rows in set (0.007 sec)
```

H. Insert 5 user pada tabel user .

```
MariaDB [alta_online_shop]> select * from users;
+----+-----------+---------+-------------+-----------+---------------------+---------------------+-----------+
| id | nama      | alamat  | status_user | gender    | tanggal_lahir       | created_at          | update_at |
+----+-----------+---------+-------------+-----------+---------------------+---------------------+-----------+
|  1 | John Doe  | Bogor   | active      | Laki -laki| 2000-09-15 12:43:40 | 2022-09-15 17:48:04 | NULL      |
|  2 | Jane Dou  | Jakarta | active      | Perempuan | 2001-09-15 12:43:40 | 2022-09-15 17:48:04 | NULL      |
|  3 | Harris    | Bogor   | active      | Laki -laki| 2002-07-15 12:43:40 | 2022-09-15 17:48:15 | NULL      |
|  4 | Bella Dou | Jakarta | active      | Perempuan | 2001-09-15 12:43:40 | 2022-09-15 17:48:15 | NULL      |
|  5 | James     | Depok   | active      | Laki-laki | 2004-10-15 12:48:20 | 2022-09-15 17:49:27 | NULL      |
+----+-----------+---------+-------------+-----------+---------------------+---------------------+-----------+
5 rows in set (0.001 sec)
```

I. Insert 3 transaksi di masing - masing user . (soal berlanjut ke soal 1.j)

```
MariaDB [alta_online_shop]> select * from transactions;
+----+---------+-------------------+-----------+-------------+---------+
| id | user_id | payment_method_id | total_qty | total_price | status  |
+----+---------+-------------------+-----------+-------------+---------+
|  1 |       1 |                 1 |         2 |       30000 | success |
|  2 |       1 |                 2 |         3 |       40000 | success |
|  3 |       1 |                 2 |         4 |      100000 | success |
|  5 |       2 |                 1 |         2 |       80000 | success |
|  6 |       2 |                 1 |         2 |       80000 | success |
|  7 |       2 |                 3 |         6 |      120000 | success |
|  8 |       3 |                 1 |         3 |       20000 | success |
|  9 |       3 |                 3 |         1 |       10000 | success |
| 10 |       3 |                 1 |         3 |       20000 | success |
| 12 |       4 |                 1 |         1 |       30000 | success |
| 13 |       4 |                 2 |         5 |      100000 | success |
| 14 |       4 |                 3 |         2 |       40000 | success |
| 18 |       5 |                 1 |         3 |      120000 | success |
| 19 |       5 |                 1 |         4 |       50000 | success |
| 20 |       5 |                 1 |         3 |      120000 | success |
+----+---------+-------------------+-----------+-------------+---------+
15 rows in set (0.001 sec)
```

J. Insert 3 product di masing - masing transaksi . j .

```
MariaDB [alta_online_shop]> select * from transaction_detail;
+----+----------------+------------+---------+-----+-------+
| id | transaction_id | product_id | status  | qty | price |
+----+----------------+------------+---------+-----+-------+
|  1 |              1 |          2 | success |   1 | 20000 |
|  2 |              1 |          2 | success |   1 | 20000 |
|  3 |              1 |          2 | success |   1 | 30000 |
|  4 |              2 |          2 | success |   1 | 30000 |
|  5 |              2 |          3 | success |   1 | 12000 |
|  6 |              2 |          3 | success |   1 | 12000 |
|  7 |              3 |          6 | success |   1 | 20000 |
|  8 |              3 |          6 | success |   1 | 20000 |
|  9 |              3 |          3 | success |   1 | 12000 |
| 10 |              5 |          3 | success |   1 | 12000 |
| 11 |              5 |          1 | success |   1 | 30000 |
| 12 |              5 |          1 | success |   1 | 30000 |
| 13 |              6 |          7 | sucess  |   1 | 15000 |
| 14 |              6 |          7 | sucess  |   1 | 15000 |
| 15 |              6 |          4 | success |   1 | 22000 |
| 16 |              7 |          4 | success |   1 | 22000 |
| 17 |              7 |          4 | success |   1 | 20000 |
| 18 |              7 |          2 | success |   1 | 20000 |
| 19 |              8 |          8 | success |   1 | 10000 |
| 20 |              8 |          8 | success |   1 | 10000 |
| 21 |              8 |          1 | success |   1 | 15000 |
| 22 |              9 |          6 | success |   1 | 10000 |
| 23 |              9 |          5 | success |   1 | 50000 |
| 24 |              9 |          5 | success |   1 | 50000 |
| 25 |             10 |          3 | success |   1 | 12000 |
| 26 |             10 |          3 | success |   1 | 12000 |
| 27 |             10 |          1 | success |   1 | 22000 |
| 28 |             12 |          1 | success |   1 | 22000 |
| 29 |             12 |          8 | success |   1 | 10000 |
| 30 |             12 |          8 | success |   1 | 10000 |
| 31 |             13 |          4 | success |   1 | 22000 |
| 32 |             13 |          2 | success |   1 | 10000 |
| 33 |             13 |          4 | success |   1 | 22000 |
| 34 |             14 |          2 | success |   1 | 10000 |
| 35 |             14 |          6 | success |   1 | 15000 |
| 36 |             14 |          2 | success |   1 | 30000 |
```

2. Select

a . Tampilkan nama user / pelanggan dengan gender Laki - laki / M.

```
MariaDB [alta_online_shop]> select * from users where gender = "Laki-laki";
+----+----------+--------+-------------+-----------+---------------------+---------------------+-----------+
| id | nama     | alamat | status_user | gender    | tanggal_lahir       | created_at          | update_at |
+----+----------+--------+-------------+-----------+---------------------+---------------------+-----------+
|  1 | John Doe | Bogor  | active      | Laki-laki | 2000-09-15 12:43:40 | 2022-09-15 17:48:04 | NULL      |
|  3 | Harris   | Bogor  | active      | Laki-laki | 2002-07-15 12:43:40 | 2022-09-15 17:48:15 | NULL      |
|  5 | James    | Depok  | active      | Laki-laki | 2004-10-15 12:48:20 | 2022-09-15 17:49:27 | NULL      |
+----+----------+--------+-------------+-----------+---------------------+---------------------+-----------+
3 rows in set (0.001 sec)
```

b . Tampilkan product dengan id = 3 .

```
MariaDB [alta_online_shop]> select * from products where id = 3;
+----+----------------------+-----------------+-------------+----------------+--------+-------+
| id | name                 | product_type_id | operator_id | description_id | status | code  |
+----+----------------------+-----------------+-------------+----------------+--------+-------+
|  3 | Pulsa Telkomsel 10000 |               2 |           1 |              3 |      1 | *888# |
+----+----------------------+-----------------+-------------+----------------+--------+-------+
1 row in set (0.000 sec)
```

c . Tampilkan data pelanggan yang created_at dalam range 7 hari kebelakang dan mempunyai nama mengandung kata ' a ' .

```
MariaDB [alta_online_shop]> select * from users where date(created_at) > CURDATE() - interval 7 day AND nama like '%a%';
+----+-----------+---------+-------------+-----------+---------------------+---------------------+-----------+
| id | nama      | alamat  | status_user | gender    | tanggal_lahir       | created_at          | update_at |
+----+-----------+---------+-------------+-----------+---------------------+---------------------+-----------+
|  2 | Jane Dou  | Jakarta | active      | Perempuan | 2001-09-15 12:43:40 | 2022-09-15 17:48:04 | NULL      |
|  3 | Harris    | Bogor   | active      | Laki-laki | 2002-07-15 12:43:40 | 2022-09-15 17:48:15 | NULL      |
|  4 | Bella Dou | Jakarta | active      | Perempuan | 2001-09-15 12:43:40 | 2022-09-15 17:48:15 | NULL      |
|  5 | James     | Depok   | active      | Laki-laki | 2004-10-15 12:48:20 | 2022-09-15 17:49:27 | NULL      |
+----+-----------+---------+-------------+-----------+---------------------+---------------------+-----------+
4 rows in set (0.007 sec)
```

d . Hitung jumlah user / pelanggan dengan status gender Perempuan .

```
MariaDB [alta_online_shop]> select count(id) users_perempuan from users where gender = "perempuan";
+-----------------+
| users_perempuan |
+-----------------+
|               2 |
+-----------------+
1 row in set (0.000 sec)
```

e . Tampilkan data pelanggan dengan urutan sesuai nama abjad

```
MariaDB [alta_online_shop]> select * from users order by nama asc;
+----+-----------+---------+-------------+-----------+---------------------+---------------------+-----------+
| id | nama      | alamat  | status_user | gender    | tanggal_lahir       | created_at          | update_at |
+----+-----------+---------+-------------+-----------+---------------------+---------------------+-----------+
|  4 | Bella Dou | Jakarta | active      | Perempuan | 2001-09-15 12:43:40 | 2022-09-15 17:48:15 | NULL      |
|  3 | Harris    | Bogor   | active      | Laki-laki | 2002-07-15 12:43:40 | 2022-09-15 17:48:15 | NULL      |
|  5 | James     | Depok   | active      | Laki-laki | 2004-10-15 12:48:20 | 2022-09-15 17:49:27 | NULL      |
|  2 | Jane Dou  | Jakarta | active      | Perempuan | 2001-09-15 12:43:40 | 2022-09-15 17:48:04 | NULL      |
|  1 | John Doe  | Bogor   | active      | Laki-laki | 2000-09-15 12:43:40 | 2022-09-15 17:48:04 | NULL      |
+----+-----------+---------+-------------+-----------+---------------------+---------------------+-----------+
5 rows in set (0.000 sec)
```

f . Tampilkan 5 data pada data product

```
MariaDB [alta_online_shop]> select * from products limit 5;
+----+--------------------------+-----------------+-------------+----------------+--------+---------+
| id | name                     | product_type_id | operator_id | description_id | status | code    |
+----+--------------------------+-----------------+-------------+----------------+--------+---------+
|  1 | Paket Unlimited Nonstop 2 GB |           1 |           3 |              1 |      1 | *123*4# |
|  2 | Paket Unlimited Nonstop 6 GB |           1 |           3 |              2 |      1 | *123*5# |
|  3 | Pulsa Telkomsel 10000    |               2 |           1 |              3 |      1 | *888#   |
|  4 | Pulsa Telkomsel 20000    |               2 |           1 |              4 |      1 | *888#   |
|  5 | Pulsa Telkomsel 50000    |               2 |           1 |              5 |      1 | *888#   |
+----+--------------------------+-----------------+-------------+----------------+--------+---------+
5 rows in set (0.000 sec)
```

3. Update

a . Ubah data product id 1 dengan nama ' product dummy ' .

```
MariaDB [alta_online_shop]> update products set name = 'Product dummy' where id = 1;
Query OK, 1 row affected (0.002 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [alta_online_shop]> select * from products;
+----+-------------------------------+-----------------+-------------+----------------+--------+---------+
| id | name                          | product_type_id | operator_id | description_id | status | code    |
+----+-------------------------------+-----------------+-------------+----------------+--------+---------+
|  1 | Product dummy                 |               1 |           3 |              1 |      1 | *123*4# |
|  2 | Paket Unlimited Nonstop 6 GB  |               1 |           3 |              2 |      1 | *123*5# |
|  3 | Pulsa Telkomsel 10000         |               2 |           1 |              3 |      1 | *888#   |
|  4 | Pulsa Telkomsel 20000         |               2 |           1 |              4 |      1 | *888#   |
|  5 | Pulsa Telkomsel 50000         |               2 |           1 |              5 |      1 | *888#   |
|  6 | Paket nelpon semua operaor 60 menit |         3 |           4 |              6 |      1 | *123#   |
|  7 | Paket nelpon sesama tri 150 menit |           3 |           4 |              7 |      1 | *123#   |
|  8 | Paket bebas bicara 200 menit  |               3 |           4 |              8 |      1 | *123#   |
+----+-------------------------------+-----------------+-------------+----------------+--------+---------+
8 rows in set (0.000 sec)
```

b . Update qty = 3 pada transaction detail dengan product id 1 .

```
MariaDB [alta_online_shop]> update transaction_detail set qty = 3 where product_id = 1;
Query OK, 5 rows affected (0.007 sec)
Rows matched: 5  Changed: 5  Warnings: 0

MariaDB [alta_online_shop]> select * from transaction_detail;
+----+----------------+------------+---------+-----+-------+
| id | transaction_id | product_id | status  | qty | price |
+----+----------------+------------+---------+-----+-------+
|  1 |              1 |          2 | success |   1 | 20000 |
|  2 |              1 |          2 | success |   1 | 20000 |
|  3 |              1 |          2 | success |   1 | 30000 |
|  4 |              2 |          2 | success |   1 | 30000 |
|  5 |              2 |          3 | success |   1 | 12000 |
|  6 |              2 |          3 | success |   1 | 12000 |
|  7 |              3 |          6 | success |   1 | 20000 |
|  8 |              3 |          6 | success |   1 | 20000 |
|  9 |              3 |          3 | success |   1 | 12000 |
| 10 |              5 |          3 | success |   1 | 12000 |
| 11 |              5 |          1 | success |   3 | 30000 |
| 12 |              5 |          1 | success |   3 | 30000 |
| 13 |              6 |          7 | sucess  |   1 | 15000 |
| 14 |              6 |          7 | sucess  |   1 | 15000 |
| 15 |              6 |          4 | success |   1 | 22000 |
| 16 |              7 |          4 | success |   1 | 22000 |
| 17 |              7 |          4 | success |   1 | 20000 |
| 18 |              7 |          2 | success |   1 | 20000 |
| 19 |              8 |          8 | success |   1 | 10000 |
| 20 |              8 |          8 | success |   1 | 10000 |
| 21 |              8 |          1 | success |   3 | 15000 |
| 22 |              9 |          6 | success |   1 | 10000 |
| 23 |              9 |          5 | success |   1 | 50000 |
| 24 |              9 |          5 | success |   1 | 50000 |
| 25 |             10 |          3 | success |   1 | 12000 |
| 26 |             10 |          3 | success |   1 | 12000 |
| 27 |             10 |          1 | success |   3 | 22000 |
| 28 |             12 |          1 | success |   3 | 22000 |
| 29 |             12 |          8 | success |   1 | 10000 |
```

4. Delete

a . Delete data pada tabel product dengan id 1 .

```
MariaDB [alta_online_shop]> delete from products where id = 1;
ERROR 1451 (23000): Cannot delete or update a parent row: a foreign key constraint fails (`alta_online_shop`.`transaction_detail`, CONSTRAINT `transactio
REIGN KEY (`product_id`) REFERENCES `products` (`id`))
```

b . Delete pada pada tabel product dengan product type id 1 .

```
MariaDB [alta_online_shop]> delete from products where product_type_id = 1;
ERROR 1451 (23000): Cannot delete or update a parent row: a foreign key constraint fails (`alta_online_shop`.`transaction_detail`, CONSTRAINT `transaction_detail_ibfk_2` FO
REIGN KEY (`product_id`) REFERENCES `products` (`id`))
MariaDB [alta_online_shop]>
```

Join , Union , Sub - query , Function

1. Gabungkan data transaksi dari user id 1 dan user id 2 .

```
MariaDB [alta_online_shop]> select * from transactions where user_id between 1 and 2;
+----+---------+-------------------+-----------+-------------+---------+
| id | user_id | payment_method_id | total_qty | total_price | status  |
+----+---------+-------------------+-----------+-------------+---------+
|  1 |       1 |                 1 |         2 |       30000 | success |
|  2 |       1 |                 2 |         3 |       40000 | success |
|  3 |       1 |                 2 |         4 |      100000 | success |
|  5 |       2 |                 1 |         2 |       80000 | success |
|  6 |       2 |                 1 |         2 |       80000 | success |
|  7 |       2 |                 3 |         6 |      120000 | success |
+----+---------+-------------------+-----------+-------------+---------+
6 rows in set (0.001 sec)
```

2.   Tampilkan jumlah harga transaksi user id 1 .

```
MariaDB [alta_online_shop]> select sum(total_price) jumlah_harga from transactions where user_id = 1;
+--------------+
| jumlah_harga |
+--------------+
|       170000 |
+--------------+
1 row in set (0.000 sec)
```

3. Tampilkan total transaksi dengan product type 2 .

```
MariaDB [alta_online_shop]> select count(user_id) from transactions t inner join transaction_detail d on t.id = d.transaction_id inner join products p on d.product_id = p.i
d where product_type_id = 2;
+----------------+
| count(user_id) |
+----------------+
|             17 |
+----------------+
1 row in set (0.001 sec)
```

4. Tampilkan semua field table product dan field name table product type yang saling berhubungan .

```
MariaDB [alta_online_shop]> select products.*,product_type.name from products inner join product_type on products.id = product_type.id;
+----+---------------------------+-----------------+-------------+----------------+--------+--------+----------------+
| id | name                      | product_type_id | operator_id | description_id | status | code   | name           |
+----+---------------------------+-----------------+-------------+----------------+--------+--------+----------------+
|  1 | Product dummy             |               1 |           3 |              1 |      1 | *123*4# | Paket Internet |
|  2 | Paket Unlimited Nonstop 6 GB |            1 |           3 |              2 |      1 | *123*5# | Pulsa          |
|  3 | Pulsa Telkomsel 10000     |               2 |           1 |              3 |      1 | *888#  | Paket Nelpon   |
+----+---------------------------+-----------------+-------------+----------------+--------+--------+----------------+
3 rows in set (0.000 sec)
```

5. Tampilkan semua field table transaction , field name table product dan field name table user .

```
MariaDB [alta_online_shop]> select t.*, p.name, u.nama from transactions t
    -> inner join products p on t.id = p.id
    -> inner join users u on p.id = u.id;
+----+---------+-------------------+-----------+-------------+---------+---------------------------+----------+
| id | user_id | payment_method_id | total_qty | total_price | status  | name                      | nama     |
+----+---------+-------------------+-----------+-------------+---------+---------------------------+----------+
|  1 |       1 |                 1 |         2 |       30000 | success | Product dummy             | John Doe |
|  2 |       1 |                 2 |         3 |       40000 | success | Paket Unlimited Nonstop 6 GB | Jane Dou |
|  3 |       1 |                 2 |         4 |      100000 | success | Pulsa Telkomsel 10000     | Harris   |
|  5 |       2 |                 1 |         2 |       80000 | success | Pulsa Telkomsel 50000     | James    |
+----+---------+-------------------+-----------+-------------+---------+---------------------------+----------+
4 rows in set (0.000 sec)
```

6. Buat function setelah data transaksi dihapus maka transaction detail terhapus juga dengan transaction id yang dimaksud .

```
MariaDB [alta_online_shop]> DELIMITER $$
MariaDB [alta_online_shop]> CREATE TRIGGER transaction_delete AFTER DELETE ON transactions
    -> FOR EACH ROW
    -> BEGIN
    -> DELETE FROM transaction_detail
    -> WHERE transaction_detail.transaction_id = old.id;
    -> END $$
Query OK, 0 rows affected (0.009 sec)
```

DELIMITER $$
CREATE TRIGGER transaction_delete AFTER DELETE on transactions
FOR EACH ROW
BEGIN
DELETE FROM transaction_detail
    WHERE transaction_detail.transaction_id = old.id;
END $$
DELIMITER ;

7. Buat function setelah data transaksi detail dihapus maka data total_qty terupdate berdasarkan qty data transaction id yang dihapus .

```
MariaDB [alta_online_shop]> CREATE TRIGGER transaction_detail_delete AFTER DELETE ON transaction_detail
    -> FOR EACH ROW
    -> BEGIN
    -> DECLARE v_qty INT;
    -> SET v_qty = OLD.qty;
    -> UPDATE transactions SET total_qty = v_qty;
    -> END $$
Query OK, 0 rows affected (0.016 sec)
```

```
MariaDB [alta_online_shop]> DELETE FROM transaction_detail where id = 1;
Query OK, 1 row affected (0.008 sec)

MariaDB [alta_online_shop]> select * from transactions;
+----+---------+-------------------+-----------+-------------+---------+
| id | user_id | payment_method_id | total_qty | total_price | status  |
+----+---------+-------------------+-----------+-------------+---------+
|  1 |       1 |                 1 |         1 |       30000 | success |
|  2 |       1 |                 2 |         1 |       40000 | success |
|  3 |       1 |                 2 |         1 |      100000 | success |
|  5 |       2 |                 1 |         1 |       80000 | success |
|  6 |       2 |                 1 |         1 |       80000 | success |
|  7 |       2 |                 3 |         1 |      120000 | success |
|  8 |       3 |                 1 |         1 |       20000 | success |
|  9 |       3 |                 3 |         1 |       10000 | success |
| 10 |       3 |                 1 |         1 |       20000 | success |
| 12 |       4 |                 1 |         1 |       30000 | success |
| 13 |       4 |                 2 |         1 |      100000 | success |
| 14 |       4 |                 3 |         1 |       40000 | success |
| 18 |       5 |                 1 |         1 |      120000 | success |
| 19 |       5 |                 1 |         1 |       50000 | success |
| 20 |       5 |                 1 |         1 |      120000 | success |
+----+---------+-------------------+-----------+-------------+---------+
15 rows in set (0.000 sec)
```

8. Tampilkan data products yang tidak pernah ada di tabel transaction_details dengan sub - query .

```
MariaDB [alta_online_shop]> select * from products where id NOT IN (select product_id from transaction_detail);
Empty set (0.008 sec)
```