HOMEWORK 7 Subquery

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SQL DATA:

https://drive.google.com/file/d/104R9ygmzLp00fljhii7D8mCyrk6omiuv/view?usp=sharing

```
mysql> show databases;
  Database
  academic
  classicmodels
  coba
  homework7
  information_schema
 library
 mysql
 performance_schema
 perjajanan
  store
  studentdata
  sys
12 rows in set (0.00 sec)
mysql> use homework7
Database changed
mysql> show tables;
 Tables_in_homework7
 tb_location
 tb_product
  tb type
3 rows in set (0.00 sec)
```

Buatlah query SQL menggunakan *subquery* untuk:

1. Menampilkan kode barang, nama barang beserta jumlahnya yang berada di lokasi "Laboratorium 2 M Informatika"

```
select product_code, product_name, total
```

- -> from tb_product where location_code in
- -> (select location code from tb location
- -> where location_name="Laboratorium 2 M Informatika");

2. Menampilkan kode barang, nama barang yang berjenis "Alat-alat elektronik" dan seluruh barang yang ada di "Ruang Dosen M Informatika"

```
select product_code, product_name
```

- -> from tb_product where type_code in
- -> (select type_code from tb_type
- -> where type_name="Alat-alat elektronik")
- -> or location_code in
- -> (select location_code from tb_location
- -> where location_name="Ruang Dosen M Informatika");

- 3. Menampilkan kode barang, nama barang dan jumlah barang yang merupakan jenis "Alat-alat elektronik" dan "Mebeler" yang terletak di "Laboratorium 2 M Informatika" select product_code, product_name, total
 - -> from tb_product where type_code in
 - -> (select type_code from tb_type
 - -> where type_name="Alat-alat elektronik" or type_name="Mebeler")
 - -> and location code in
 - -> (select location_code from tb_location
 - -> where location_name="Laboratorium 2 M Informatika");

```
mysql> select product_code, product_name, total
   -> from tb_product where type_code in
   -> (select type_code from tb_type
   -> where type_name="Alat-alat elektronik" or type_name="Mebeler")
   -> and location_code in
   -> (select location code from tb location
   -> where location_name="Laboratorium 2 M Informatika");
 product_code | product_name | total |
               Komputer
 FK0014
 FK0015
                Printer
              LCD Projector
Meja Komputer
 EK0016
 MM011
 rows in set (0.00 sec)
```

4. Menampilkan semua informasi barang selain jenis "Mebeler"yang berada di "Laboratorium 2 M Informatika"

select * from tb_product

- -> where type_code not in
- -> (select type_code from tb_type
- -> where type_name = "Mebeler")
- -> and location_code in
- -> (select location_code from tb_location
- -> where location_name = "Laboratorium 2 M Informatika");

```
mysql> select * from tb product
   -> where type_code not in
   -> (select type code from tb type
   -> where type_name = "Mebeler")
   -> and location_code in
   -> (select location code from tb location
   -> where location_name = "Laboratorium 2 M Informatika");
 type_code | location_code | product_code | product_name | total |
 A001
                                            Papan Tulis
 F001
             TNF002
                             FK0014
                                            Komputer
 E001
             INFO02
                             EK0015
                                            Printer
             INFO02
                             EK0016
                                            LCD Projector
                                                                 2 |
 rows in set (0.01 sec)
```

5. Menambahkan barang dengan nama "Spidol" dengan kode barang "AP005" dan informasi barang lain sama dengan "Papan Tulis" tetapi jumlah barang 2 kali lipat dari jumlah "Papan Tulis" insert into the product (type code legation code product code product name total)

```
insert into tb_product(type_code, location_code, product_code, product_name,total)
   -> values(
   -> (select type_code from tb_product p where p.product_name="Papan Tulis"),
   -> (select location_code from tb_product p where p.product_name="Papan Tulis"),
   -> "AP005",
   -> "Spidol",
   -> (select p.total*2 from tb_product p where p.product_name="Papan Tulis")
```

 Menambahkan "Kabel HDMI" yang akan di tempatkan di "Ruang Dosen M Informatika" dengan kode barang "EK0017", jenis 'E001', dan berjumlah sama dengan seluruh "LCD Projector"

A001 | INFO02 | AP005 | Spidol | 22 |

insert into tb_product(type_code, location_code, product_code, product_name,total)

```
-> values(
```

1 row in set (0.00 sec)

-> (select l.location_code from tb_location l where l.location_name="Ruang Dosen M Informatika"),

```
-> "EK0017",
```

-> (select sum(p.total) from tb_product p where p.product_name="LCD Projector")

->);

^{-&}gt; "E001".

^{-&}gt; "Kabel HDMI",

- 7. Mengubah jumlah "Komputer" yang ada di "Laboratorium 1 M Informatika" sesuai dengan jumlah "Meja Komputer" di ruangan tersebut update tb_product
 - -> set total = (select * from(select p.total
 - -> from tb_product p where p.product_name="Meja Komputer"
 - -> and p.location_code in (select location_code
 - -> from tb_location where location_name="Laboratorium 1 M Informatika")) as temp)
 - -> where product_name="Komputer" and location_code in
 - -> (select location code from tb location
 - -> where location_name="Laboratorium 1 M Informatika")

->;;

```
mysql> insert into tb_product(type_code, location_code, product_code, product_name,
total)
   -> values(
   -> "E001",
   -> (select l.location_code from tb_location l where l.location_name="Ruang Dose
n M Informat<u>i<mark>k</u>a"),</u></mark>
   -> "EK0017"
   -> "Kabel HDMI",
   -> (select sum(p.total) from tb_product p where p.product_name="LCD Projector")
Query OK, 1 row affected (0.00 sec)
mysql> select * from tb product where location code="INFO01";
 type_code | location_code | product_code | product_name | total |
                                               | Komputer
| Printer
| LCD Projector
| Meja Komputer
                                                                      35 l
 E001
             INFO01
                              EK0014
                                                                      3
             INFO01
                              EK0015
 E001
             INFO01
                              EK0016
 E001
 M001
             INFO01
                              MM011
                                               | Kursi Hidrolik |
 M001
             INFO01
                              MM012
                                                                       30 I
5 rows in set (0.00 sec)
```

- Mengubah seluruh jumlah "Kursi Hidrolik" di setiap ruangan dengan jumlah minimum dari "Meja Komputer" update tb_product
 - -> set total=(select * from(select min(p.total)
 - -> from tb_product p where p.product_name="Meja Komputer") as temp)
 - -> where product_name="Kursi Hidrolik";

- Menghapus seluruh data barang yang ada di lokasi "Ruang Dosen M Informatika" delete from tb_product
 - -> where location_code =
 - -> (select location_code from tb_location
 - -> where location_name="Ruang Dosen M Informatika");

```
mysql> delete from tb_product
   -> where location_code =
   -> (select location_code from tb_location
   -> where location_name="Ruang Dosen M Informatika");
Query OK, 2 rows affected (0.00 sec)

mysql> select * from tb_product where location_code=
   -> (select location_code from tb_location
   -> where location_name="Ruang Dosen M Informatika");
Empty set (0.00 sec)
```

10. Menghapus seluruh data barang di lokasi "Laboratorium 2 M Informatika" yang bukan merupakan jenis "Mebeler"

select * from tb_product where location_code=

- -> (select location_code from tb_location
- -> where location_name="Laboratorium 2 M Informatika");