Name : Ramzy Izza Wardhana NIM : 21/472698/PA/20322 Class : IUP CS B – Lab Database

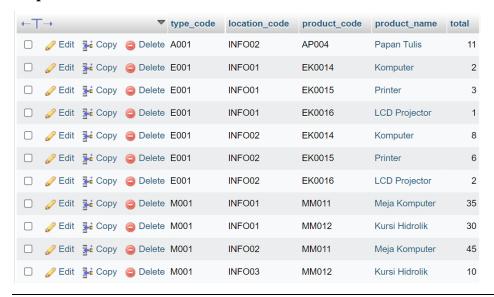
HOMEWORK 7 Subquery

Importing the data (homework7.sql) to the database gives:

tb_location Table



tb_product

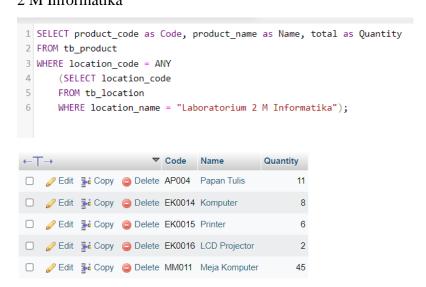


tb_type Table

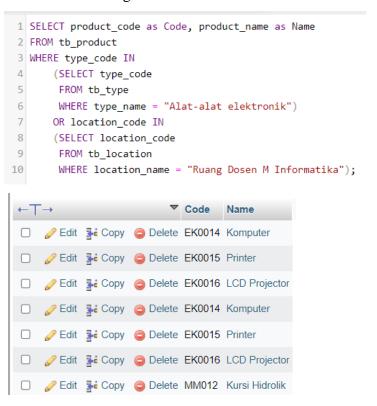


Create SQL query using subquery to:

 Show the items code, items name, and its quantity where the location in "Laboratorium 2 M Informatika"



2. Show the items code, the name of items which type is "Alat-alat elektronik" and all the items in the "Ruang Dosen M Informatika"



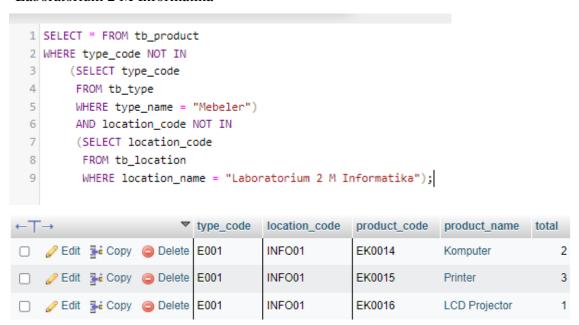
3. Show the item code, item name and the number of items which type is "Alat-alat elektronik" and "Mebeler" located in the "Laboratorium 2 M Informatika"

```
1 SELECT product_code as Code, product_name as Name, total
2 FROM tb_product
3 WHERE type_code IN
4
     (SELECT type_code
5
     FROM tb_type
     WHERE type_name = "Mebeler" OR type_name = "Alat-alat Elektronik")
6
7
     AND location_code IN
     (SELECT location code
8
9
      FROM tb location
      WHERE location_name = "Laboratorium 2 M Informatika");
10
                   ▼ Code
                                   total
8
2

  □  Ø Edit  ♣ Copy  ⊜ Delete MM011 Meja Komputer

                                      45
```

4. Show all information on items except the items which type is "Mebeler" located in the "Laboratorium 2 M Informatika"



5. Add an item with the name is "Spidol" and item code "AP005" and the other information similar to "Papan Tulis" but the amount of item is 2 times the amount of "Papan Tulis"

```
1 INSERT INTO tb_product
     SELECT
2
3
     tb_product.type_code,
4
     tb_product.location_code,
5
     "AP005",
     "Spidol",
6
7
     total*2 AS total
8
     FROM tb_product WHERE product_name = "Papan Tulis"
                 AP004
   INFO02
                                             Papan Tulis
☐ Ø Edit ♣ Copy 		 Delete A001
                          INFO02
                                    AP005
                                              Spidol
☐ Ø Edit ♣ Copy 	 Delete E001
                          INFO01
                                    EK0014
                                              Komputer
                                                          2
INFO01
                                    EK0015
                                              Printer
☐ // Edit 34 Copy 👝 Delete E001 INFO01
                                    EK0016 LCD Proiector
```

6. Add an item with the name is "Kabel" which will be placed in the "Ruang Dosen M Informatika" with item code "EK0017", type 'E001', and the amount is similar to the amount of all "LCD projectors"

```
1 INSERT INTO tb_product
     "E001",
     (SELECT location_code FROM tb_location WHERE location_name = "Ruang Dosen M Informatika"),
     "EK0017",
 5
     "Kabel",
 6
     (SELECT SUM(total) FROM tb_product WHERE product_name = "LCD Projector");
INFOUZ
                                              EN0014
                                                          Nonipulei
INFO02
                                              EK0015
                                                          Printer
                                                                         6

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                                  INFO02
                                              EK0016
                                                          LCD Projector
INFO03
                                              EK0017
                                                          Kabel
                                                                         3
□ Ø Edit 34 Copy @ Doloto M001
                                                         Maia Komputor
                             INICO01
                                        MANAO 11
```

7. Change the amount of "Komputer" in the "Laboratorium 1 M Informatika" according to the number of "Meja Komputer" in that room

```
UPDATE tb_product

SET total =

(SELECT total FROM tb_product

WHERE product_name = "Meja Komputer" AND

location_code = (SELECT location_code FROM tb_location

WHERE location_name = "Laboratorium 1 M Informatika"))

WHERE product_name = "Komputer" AND location_code = "INFO01";
```

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Ø Edit	≩ сору	Delete	E001	INFO01	EK0016	LCD Projector	1
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<i></i> Fdit	3 å Conv	Delete	F001	INFO02	FK0015	Printer	6

8. Change all amount of "Kursi Hidrolik" in each room to the minimum amount of "Meja Komputer"

```
1 UPDATE tb_product
2 SET total =
3
    (SELECT MIN(total)
     FROM tb_product
     WHERE product_name = "Meja Komputer")
6 WHERE product_name = "Kursi Hidrolik";
   INFO01
                                            MM011
                                                       Meja Komputer
                                                                      35
   INFO01
                                            MM012
                                                       Kursi Hidrolik
                                                                      35

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                                INFO02
                                            MM011
                                                                      45
                                                       Meja Komputer
   INFO03
                                            MM012
                                                       Kursi Hidrolik
                                                                      35
```

9. Delete all data of items in the "Ruang Dosen M Informatika"

```
1 DELETE FROM tb_product
    2 WHERE location_code = ANY
                              (SELECT location_code
    4
                              FROM tb_location
                              WHERE location_name = "Ruang Dosen M Informatika");
                                                                                      ▼ type_code
                                                                                                                                  location_code product_code
                                                                                                                                                                                                                                   product_name
INFO02
                                                                                                                                                                                    AP004
                                                                                                                                                                                                                                    Papan Tulis
             INFO02
                                                                                                                                                                                     AP005
                                                                                                                                                                                                                                    Spidol
                                                                                                                                                                                                                                                                                               22
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                                                                                                                                                                                    EK0014
                                                                                                                                                                                                                                                                                               35
                                                                                                                                                                                                                                    Komputer

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                                                                                                                                     INFO01
                                                                                                                                                                                    EK0015
                                                                                                                                                                                                                                    Printer
                                                                                                                                                                                                                                                                                                  3

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                                                                                                                                                                                                                                    LCD Projector
                                                                                                                                                                                                                                                                                                  1

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                                                                                                                                                                                     EK0014
                                                                                                                                                                                                                                    Komputer

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                                                                                                                                     INFO02
                                                                                                                                                                                     EK0015
                                                                                                                                                                                                                                    Printer
                                                                                                                                                                                                                                                                                                  6

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                                                                                                                                     INFO02
                                                                                                                                                                                     EK0016
                                                                                                                                                                                                                                                                                                  2
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                                                                                                                                     INFO01
                                                                                                                                                                                     MM011
                                                                                                                                                                                                                                    Meja Komputer
                                                                                                                                                                                                                                                                                               35
                                                                                                                                     INFO01
                                                                                                                                                                                     MM012
                                                                                                                                                                                                                                                                                               35

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                                                                                                                                                                                                                                    Kursi Hidrolik

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                                                                                                                                     INFO02
                                                                                                                                                                                     MM011
                                                                                                                                                                                                                                    Meja Komputer
                                                                                                                                                                                                                                                                                               45
```

10. Delete all data of items in the "Laboratorium 2 M Informatika" which is not "Mebeler" type

total

35

3

1

35

35

45

Meja Komputer

Kursi Hidrolik

Meja Komputer

```
1 DELETE FROM tb_product
2 WHERE location_code =
    (SELECT location_code
3
4
    FROM tb_location
5
    WHERE location_name = "Laboratorium 2 M Informatika")
6
     AND type_code NOT IN
7
    (SELECT type_code
8
     FROM tb_type
9
     WHERE type_name = "Mebeler");
               INFO01
                                 EK0014
                                         Komputer
INFO01
                                 EK0015
                                         Printer
INFO01
                                 EK0016
                                         LCD Projector
```

INFO01

INFO01

INFO02

MM011

MM012

MM011