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

## Assignment 3 – Data Manipulation Languages

1. Write query to create a **STORE** database

```
✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0008 seconds.)
CREATE DATABASE IF NOT EXISTS STORE;
[Edit inline] [Edit] [Create PHP code]
```

2. Write query to create Customer table, Product table, and Transaction table

```
3 CREATE TABLE IF NOT EXISTS Customer(

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0231 seconds.)

                                                                                            customerNumber VARCHAR(5) NOT NULL PRIMARY KEY,
CREATE TABLE IF NOT EXISTS Customer( customerNumber VARCHAR(5) NOT NULL PRIMARY KEY,
                                                                                      5
                                                                                            customerName VARCHAR(255) NOT NULL,
customerName VARCHAR(255) NOT NULL, city VARCHAR(100) )ENGINE=INNODB;
                                                                                            city VARCHAR(100)
                                                    [Edit inline][Edit][Create PHP code] 7 )ENGINE=INNODB;
                                                                                     9 CREATE TABLE IF NOT EXISTS Product(

✓ MySQL returned an empty result set (i.e. zero rows), (Query took 0.0176 seconds.)

                                                                                          productNumber VARCHAR(5) NOT NULL PRIMARY KEY,
CREATE TABLE IF NOT EXISTS Product( productNumber VARCHAR(5) NOT NULL PRIMARY KEY,
                                                                                    11
                                                                                            productName VARCHAR(100) NOT NULL,
productName VARCHAR(100) NOT NULL, stock INT(3) DEFAULT 15 )ENGINE=INNODB;
                                                                                    12
                                                                                           stock INT(3) DEFAULT 15
                                                    [Edit inline][Edit][Create PHP code] 13 )ENGINE=INNODB;
                                                                                     14
                                                                                     15 CREATE TABLE IF NOT EXISTS Transaction(

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0199 seconds.)

                                                                                     16
                                                                                           transactionNumber VARCHAR(5) NOT NULL PRIMARY KEY,
CREATE TABLE IF NOT EXISTS Transaction( transactionNumber VARCHAR(5) NOT NULL PRIMARY
                                                                                    17
                                                                                            transactionDate DATE,
KEY, transactionDate DATE, customerNumber VARCHAR(5), FOREIGN KEY (customerNumber)
                                                                                     18
                                                                                          customerNumber VARCHAR(5),
REFERENCES Customer(customerNumber) )ENGINE=INNODB;
                                                                                     19
                                                                                            FOREIGN KEY (customerNumber) REFERENCES Customer(customerNumber)
                                                   [Edit inline][Edit][Create PHP code] 20 )ENGINE=INNODB;
```

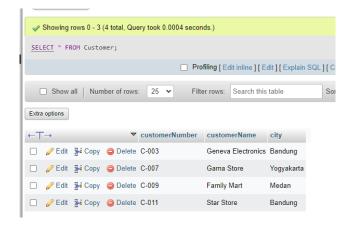
3. Write query to insert data in the three tables according to data as follows.

```
3 INSERT INTO Customer(customerNumber, customerName, city)
4 rows inserted. (Query took 0.0008 seconds.)
                                                                          4 VALUES
                                                                                ('C-003', 'Geneva Electronics', 'Bandung'),
INSERT INTO Customer(customerNumber, customerName, city) VALUES ('C-
                                                                                ('C-007','Gama Store','Yogyakarta'),
003', 'Geneva Electronics', 'Bandung'), ('C-007', 'Gama
                                                                                ('C-009','Family Mart','Medan'),
Store', 'Yogyakarta'), ('C-009', 'Family Mart', 'Medan'), ('C-011', 'Star
                                                                               ('C-011','Star Store','Bandung');
Store', 'Bandung');
                                       [ Edit inline ] [ Edit ] [ Create PHP code ]
                                                                        10 INSERT INTO Product(productNumber, productName, stock)
                                                                         11 VALUES
('P-100','Monitor 17',15),
                                                                        12
                                                                        13
                                                                               ('P-120','Keyboard Ps2',20),
INSERT INTO Product(productNumber, productName, stock) VALUES ('P-
                                                                        14
                                                                               ('P-123','Mouse Ps2',15),
100', 'Monitor 17',15), ('P-120', 'Keyboard Ps2',20), ('P-123', 'Mouse
                                                                        15
                                                                                ('P-125','Memory 512',10);
Ps2',15), ('P-125', 'Memory 512',10);
                                       [ Edit inline ] [ Edit ] [ Create PHP code ]
                                                                        17 INSERT INTO Transaction(transactionNumber, transactionDate, customerNumber)
                                                                         18 VALUES
                                                                        19
                                                                               ('T-001','2019-10-19','C-011'),
4 rows inserted. (Query took 0.0011 seconds.)
                                                                               ('T-002','2020-01-10','C-003'),
                                                                        20
                                                                             ('T-003','2020-08-07','C-009'),
INSERT INTO Transaction(transactionNumber, transactionDate,
                                                                        21
customerNumber) <u>VALUES</u> ('T-001','2019-10-19','C-011'), ('T-002','2020-
                                                                             ('T-004','2020-09-09','C-007');
                                                                        22
01-10','C-003'), ('T-003','2020-08-07','C-009'), ('T-004','2020-09-
                                       [ Edit inline ] [ Edit ] [ Create PHP code ]
```

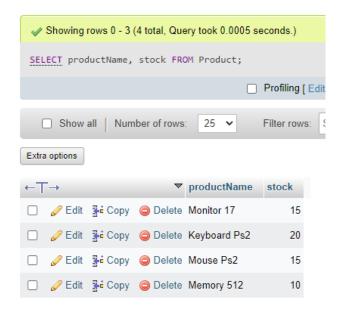
4. Show the name of *city* from the *Customer* uniquely



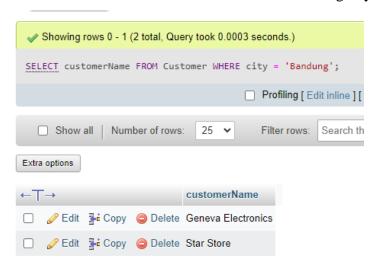
5. Show all Customer data



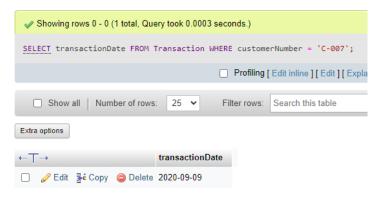
6. Show productName and stock of all Product data



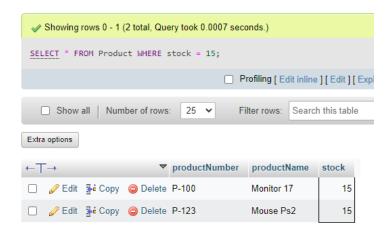
7. Show the customerName who lives in the Bandung city



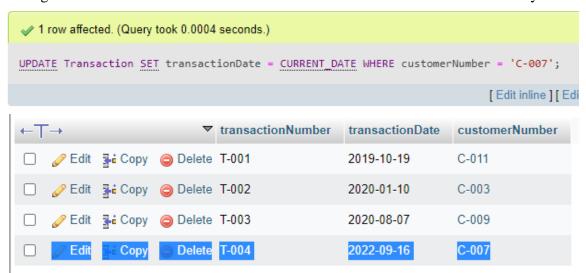
8. Show transactionDate from the customer who has customerNumber C-007



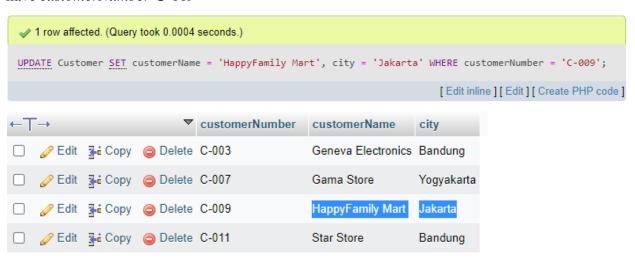
9. Show all *Product* data that has *stock* 15



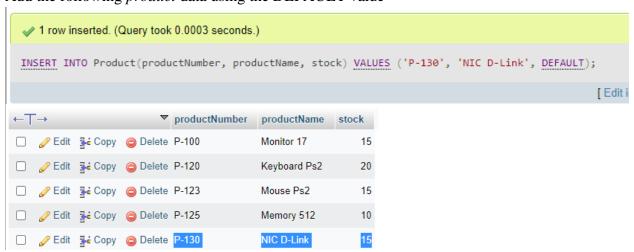
10. Change the transactionDate of customer who has customerNumber C-007 to today's date



11. Change *customerName* to **HappyFamily Mart** and *city* to **Jakarta** for customer who have *customerNumber* **C-009** 



12. Add the following *product* data using the DEFAULT value

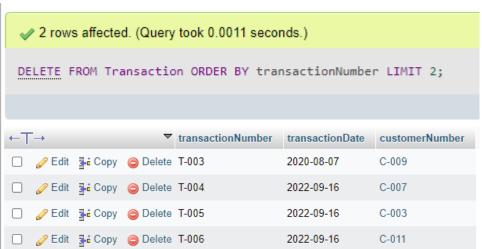


13. Add the following transaction data using today's date in transactionDate



←Τ	→		~	transactionNumber	transactionDate	customerNumber
	Edit	<b>≩-i</b> Copy	Delete	T-001	2019-10-19	C-011
	<i>⊘</i> Edit	<b>≩-i</b> Copy	Delete	T-002	2020-01-10	C-003
	<i> </i>	<b>≩-i</b> Copy	Delete	T-003	2020-08-07	C-009
	<i> </i>	<b>≩</b> і Сору	Delete	T-004	2022-09-16	C-007
	/ Edit	Сору	Delete	T-005	2022-09-16	C-003
	/ Edit	ј Сору	Delete	T-006	2022-09-16	C-011

14. Delete the first two transaction data that sorted by transactionNumber



15. Delete the last 2 transaction data sorted by *transactionNumber* 

