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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

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

```
CREATE TABLE IF NOT EXISTS Customer( customerNumber VARCHAR(5) NOT NULL PRIMARY KEY,  
customerName VARCHAR(255) NOT NULL, city VARCHAR(100) )ENGINE=INNODB;
```

[Edit inline] [Edit] [Create PHP code]

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

```
CREATE TABLE IF NOT EXISTS Product( productNumber VARCHAR(5) NOT NULL PRIMARY KEY,  
productName VARCHAR(100) NOT NULL, stock INT(3) DEFAULT 15 )ENGINE=INNODB;
```

[Edit inline] [Edit] [Create PHP code]

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

```
CREATE TABLE IF NOT EXISTS Transaction( transactionNumber VARCHAR(5) NOT NULL PRIMARY  
KEY, transactionDate DATE, customerNumber VARCHAR(5), FOREIGN KEY (customerNumber)  
REFERENCES Customer(customerNumber) )ENGINE=INNODB;
```

[Edit inline] [Edit] [Create PHP code]

```
3 CREATE TABLE IF NOT EXISTS Customer(  
4     customerNumber VARCHAR(5) NOT NULL PRIMARY KEY,  
5     customerName VARCHAR(255) NOT NULL,  
6     city VARCHAR(100)  
7 )ENGINE=INNODB;  
8  
9 CREATE TABLE IF NOT EXISTS Product(  
10     productNumber VARCHAR(5) NOT NULL PRIMARY KEY,  
11     productName VARCHAR(100) NOT NULL,  
12     stock INT(3) DEFAULT 15  
13 )ENGINE=INNODB;  
14  
15 CREATE TABLE IF NOT EXISTS Transaction(  
16     transactionNumber VARCHAR(5) NOT NULL PRIMARY KEY,  
17     transactionDate DATE,  
18     customerNumber VARCHAR(5),  
19     FOREIGN KEY (customerNumber) REFERENCES Customer(customerNumber)  
20 )ENGINE=INNODB;
```

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

✓ 4 rows inserted. (Query took 0.0008 seconds.)

```
INSERT INTO Customer(customerNumber, customerName, city) VALUES ('C-003','Geneva Electronics','Bandung'), ('C-007','Gama Store','Yogyakarta'), ('C-009','Family Mart','Medan'), ('C-011','Star Store','Bandung');
```

[Edit inline] [Edit] [Create PHP code]

✓ 4 rows inserted. (Query took 0.0013 seconds.)

```
INSERT INTO Product(productNumber, productName, stock) VALUES ('P-100','Monitor 17',15), ('P-120','Keyboard Ps2',20), ('P-123','Mouse Ps2',15), ('P-125','Memory 512',10);
```

[Edit inline] [Edit] [Create PHP code]

✓ 4 rows inserted. (Query took 0.0011 seconds.)

```
INSERT INTO Transaction(transactionNumber, transactionDate, customerNumber) VALUES ('T-001','2019-10-19','C-011'), ('T-002','2020-01-10','C-003'), ('T-003','2020-08-07','C-009'), ('T-004','2020-09-09','C-007');
```

[Edit inline] [Edit] [Create PHP code]

```
3 INSERT INTO Customer(customerNumber, customerName, city)  
4 VALUES  
5     ('C-003','Geneva Electronics','Bandung'),  
6     ('C-007','Gama Store','Yogyakarta'),  
7     ('C-009','Family Mart','Medan'),  
8     ('C-011','Star Store','Bandung');  
9  
10 INSERT INTO Product(productNumber, productName, stock)  
11 VALUES  
12     ('P-100','Monitor 17',15),  
13     ('P-120','Keyboard Ps2',20),  
14     ('P-123','Mouse Ps2',15),  
15     ('P-125','Memory 512',10);  
16  
17 INSERT INTO Transaction(transactionNumber, transactionDate, customerNumber)  
18 VALUES  
19     ('T-001','2019-10-19','C-011'),  
20     ('T-002','2020-01-10','C-003'),  
21     ('T-003','2020-08-07','C-009'),  
22     ('T-004','2020-09-09','C-007');
```

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

✓ Showing rows 0 - 2 (3 total, Query took 0.0004 seconds.)

```
SELECT DISTINCT city from Customer;
```

☐ Profiling [Edit]

☐ Show all | Number of rows: 25 | Filter rows:

Extra options

	city
<input type="checkbox"/> Edit Copy Delete	Bandung
<input type="checkbox"/> Edit Copy Delete	Yogyakarta
<input type="checkbox"/> Edit Copy Delete	Medan

5. Show all *Customer* data

✓ Showing rows 0 - 3 (4 total, Query took 0.0004 seconds.)

```
SELECT * FROM Customer;
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Copy]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort

Extra options

	customerNumber	customerName	city
<input type="checkbox"/> Edit Copy Delete	C-003	Geneva Electronics	Bandung
<input type="checkbox"/> Edit Copy Delete	C-007	Gama Store	Yogyakarta
<input type="checkbox"/> Edit Copy Delete	C-009	Family Mart	Medan
<input type="checkbox"/> Edit Copy Delete	C-011	Star Store	Bandung

6. Show *productName* and *stock* of all *Product* data

✓ Showing rows 0 - 3 (4 total, Query took 0.0005 seconds.)

```
SELECT productName, stock FROM Product;
```

☐ Profiling [Edit]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort

Extra options

	productName	stock
<input type="checkbox"/> Edit Copy Delete	Monitor 17	15
<input type="checkbox"/> Edit Copy Delete	Keyboard Ps2	20
<input type="checkbox"/> Edit Copy Delete	Mouse Ps2	15
<input type="checkbox"/> Edit Copy Delete	Memory 512	10

7. Show the `customerName` who lives in the Bandung city

✓ Showing rows 0 - 1 (2 total, Query took 0.0003 seconds.)

```
SELECT customerName FROM Customer WHERE city = 'Bandung';
```

☐ Profiling [Edit inline] []

☐ Show all | Number of rows: 25 | Filter rows: Search th

Extra options

	customerName
<input type="checkbox"/> Edit Copy Delete	Geneva Electronics
<input type="checkbox"/> Edit Copy Delete	Star Store

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

✓ Showing rows 0 - 0 (1 total, Query took 0.0003 seconds.)

```
SELECT transactionDate FROM Transaction WHERE customerNumber = 'C-007';
```

☐ Profiling [Edit inline] [Edit] [Expla

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

	transactionDate
<input type="checkbox"/> Edit Copy Delete	2020-09-09

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

✓ Showing rows 0 - 1 (2 total, Query took 0.0007 seconds.)

```
SELECT * FROM Product WHERE stock = 15;
```

☐ Profiling [Edit inline] [Edit] [Exp

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

	productNumber	productName	stock
<input type="checkbox"/> Edit Copy Delete	P-100	Monitor 17	15
<input type="checkbox"/> Edit Copy Delete	P-123	Mouse Ps2	15

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

✓ 1 row affected. (Query took 0.0004 seconds.)

```
UPDATE Transaction SET transactionDate = CURRENT_DATE WHERE customerNumber = 'C-007';
```

[Edit inline] [Edit]

		transactionNumber	transactionDate	customerNumber		
<input type="checkbox"/>	Edit	Copy	Delete	T-001	2019-10-19	C-011
<input type="checkbox"/>	Edit	Copy	Delete	T-002	2020-01-10	C-003
<input type="checkbox"/>	Edit	Copy	Delete	T-003	2020-08-07	C-009
<input type="checkbox"/>	Edit	Copy	Delete	T-004	2022-09-16	C-007

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

✓ 1 row affected. (Query took 0.0004 seconds.)

```
UPDATE Customer SET customerName = 'HappyFamily Mart', city = 'Jakarta' WHERE customerNumber = 'C-009';
```

[Edit inline] [Edit] [Create PHP code]

		customerNumber	customerName	city		
<input type="checkbox"/>	Edit	Copy	Delete	C-003	Geneva Electronics	Bandung
<input type="checkbox"/>	Edit	Copy	Delete	C-007	Gama Store	Yogyakarta
<input type="checkbox"/>	Edit	Copy	Delete	C-009	HappyFamily Mart	Jakarta
<input type="checkbox"/>	Edit	Copy	Delete	C-011	Star Store	Bandung

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

✓ 1 row inserted. (Query took 0.0003 seconds.)

```
INSERT INTO Product(productNumber, productName, stock) VALUES ('P-130', 'NIC D-Link', DEFAULT);
```

[Edit inline] [Edit] [Create PHP code]

		productNumber	productName	stock		
<input type="checkbox"/>	Edit	Copy	Delete	P-100	Monitor 17	15
<input type="checkbox"/>	Edit	Copy	Delete	P-120	Keyboard Ps2	20
<input type="checkbox"/>	Edit	Copy	Delete	P-123	Mouse Ps2	15
<input type="checkbox"/>	Edit	Copy	Delete	P-125	Memory 512	10
<input type="checkbox"/>	Edit	Copy	Delete	P-130	NIC D-Link	15

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

✓ 2 rows inserted. (Query took 0.0011 seconds.)

```
INSERT INTO Transaction(transactionNumber, transactionDate, customerNumber) VALUES ('T-005',CURRENT_DATE,'C-003'), ('T-006',CURRENT_DATE,'C-011');
```

[Edit inline] [Edit] [Create PHP code]

	transactionNumber	transactionDate	customerNumber
<input type="checkbox"/> Edit Copy Delete	T-001	2019-10-19	C-011
<input type="checkbox"/> Edit Copy Delete	T-002	2020-01-10	C-003
<input type="checkbox"/> Edit Copy Delete	T-003	2020-08-07	C-009
<input type="checkbox"/> Edit Copy Delete	T-004	2022-09-16	C-007
<input type="checkbox"/> Edit Copy Delete	T-005	2022-09-16	C-003
<input type="checkbox"/> Edit Copy Delete	T-006	2022-09-16	C-011

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

✓ 2 rows affected. (Query took 0.0011 seconds.)

```
DELETE FROM Transaction ORDER BY transactionNumber LIMIT 2;
```

	transactionNumber	transactionDate	customerNumber
<input type="checkbox"/> Edit Copy Delete	T-003	2020-08-07	C-009
<input type="checkbox"/> Edit Copy Delete	T-004	2022-09-16	C-007
<input type="checkbox"/> Edit Copy Delete	T-005	2022-09-16	C-003
<input type="checkbox"/> Edit Copy Delete	T-006	2022-09-16	C-011

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

✓ 2 rows affected. (Query took 0.0013 seconds.)

```
DELETE FROM Transaction ORDER BY transactionNumber DESC LIMIT 2;
```

	transactionNumber	transactionDate	customerNumber
<input type="checkbox"/> Edit Copy Delete	T-003	2020-08-07	C-009
<input type="checkbox"/> Edit Copy Delete	T-004	2022-09-16	C-007