

TECHNICAL REPORT
PRAKTIKUM BASIS DATA II
TUGAS PRAKTIKUM 8
“Trigger”



Disusun Oleh :

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A. SOAL

1. Melanjutkan dari no 1 edit trigger tersebut. Saat insert di orderdetail akan mengurangi unitinstock dan saat delete di orderdetail maka akan menambah unitinstock
2. Melanjutkan dari no 2 dilakukan cek terlebih dahulu apakah unitinstocknya > dari quantity (orderdetailnya)

B. JAWABAN

1.

```
DELIMITER //
```

```
CREATE TRIGGER updateStock
```

```
BEFORE INSERT ON orderdetails
```

```
FOR EACH ROW
```

```
BEGIN
```

```
    UPDATE products SET products.UnitsInStock =
```

```
products.UnitsInStock - New.Quantity WHERE products.ProductID
```

```
= New.ProductID;
```

```
END //
```

```
DELIMITER ;
```



```
DELIMITER //
```

```
CREATE TRIGGER updateStock2
```

```
AFTER DELETE ON orderdetails
```

```
FOR EACH ROW
```

```
BEGIN
```

```
    UPDATE products SET products.UnitsInStock =
```

```
products.UnitsInStock + Old.Quantity WHERE products.ProductID
```

```
= Old.ProductID;
```

```
END //
```

```
DELIMITER ;
```



```
INSERT INTO `orderdetails` (`OrderID`, `ProductID`,
```

```
`UnitPrice`, `Quantity`, `Discount`) VALUES ('21342', '1',
```

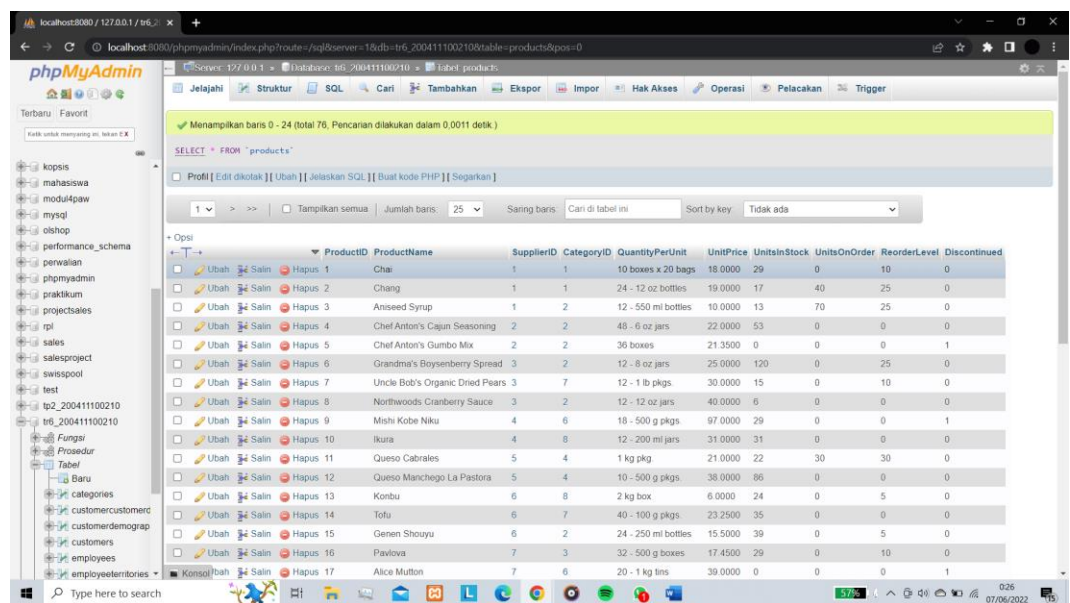
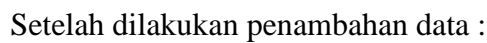
```
'18.0000', '10', '0');
```



```
DELETE FROM `orderdetails` WHERE `orderdetails`.`OrderID` =
```

```
21342 AND `orderdetails`.`ProductID` = 1
```

Sebelum dilakukan penambahan data :



Sebelum dihapus :

The screenshot shows the phpMyAdmin interface with the 'products' table selected. The table contains 17 rows of product data. The left sidebar shows a database structure with various tables like 'categories', 'customers', 'employees', etc. The main area displays the table structure and a list of products.

ProductID	ProductName	SupplierID	CategoryID	QuantityPerUnit	UnitPrice	UnitsInStock	UnitsOnOrder	ReorderLevel	Discontinued
1	Chai	1	1	10 boxes x 20 bags	18.0000	29	0	10	0
2	Chang	1	1	24 - 12 oz bottles	19.0000	17	40	25	0
3	Aniseed Syrup	1	2	12 - 550 ml bottles	10.0000	13	70	25	0
4	Chef Anton's Cajun Seasoning	2	2	48 - 6 oz jars	22.0000	53	0	0	0
5	Chef Anton's Gumbo Mix	2	2	36 boxes	21.3500	0	0	0	1
6	Grandma's Boysenberry Spread	3	2	12 - 8 oz jars	25.0000	120	0	25	0
7	Uncle Bob's Organic Dried Pears	3	7	12 - 1 lb pkgs	30.0000	15	0	10	0
8	Northwoods Cranberry Sauce	3	2	12 - 12 oz jars	40.0000	6	0	0	0
9	Mishi Kobe Niku	4	6	18 - 500 g pkgs	97.0000	29	0	0	1
10	Ikura	4	8	12 - 200 ml jars	31.0000	31	0	0	0
11	Queso Cabrales	5	4	1 kg pkg	21.0000	22	30	30	0
12	Queso Manchego La Pastora	5	4	10 - 500 g pkgs	38.0000	86	0	0	0
13	Konbu	6	8	2 kg box	6.0000	24	0	5	0
14	Tofu	6	7	40 - 100 g pkgs	23.2500	35	0	0	0
15	Genen Shouyu	6	2	24 - 250 ml bottles	15.5000	39	0	5	0
16	Pavlova	7	3	32 - 500 g boxes	17.4500	29	0	10	0
17	Alice Mutton	7	6	20 - 1 kg tins	39.0000	0	0	0	1

Setelah dihapus :

The screenshot shows the phpMyAdmin interface with the 'products' table selected. The table now contains 16 rows of product data, as the first row (Chai) has been removed. The rest of the table structure and data remain the same.

ProductID	ProductName	SupplierID	CategoryID	QuantityPerUnit	UnitPrice	UnitsInStock	UnitsOnOrder	ReorderLevel	Discontinued
1	Chai	1	1	10 boxes x 20 bags	18.0000	39	0	10	0
2	Chang	1	1	24 - 12 oz bottles	19.0000	17	40	25	0
3	Aniseed Syrup	1	2	12 - 550 ml bottles	10.0000	13	70	25	0
4	Chef Anton's Cajun Seasoning	2	2	48 - 6 oz jars	22.0000	53	0	0	0
5	Chef Anton's Gumbo Mix	2	2	36 boxes	21.3500	0	0	0	1
6	Grandma's Boysenberry Spread	3	2	12 - 8 oz jars	25.0000	120	0	25	0
7	Uncle Bob's Organic Dried Pears	3	7	12 - 1 lb pkgs	30.0000	15	0	10	0
8	Northwoods Cranberry Sauce	3	2	12 - 12 oz jars	40.0000	6	0	0	0
9	Mishi Kobe Niku	4	6	18 - 500 g pkgs	97.0000	29	0	0	1
10	Ikura	4	8	12 - 200 ml jars	31.0000	31	0	0	0
11	Queso Cabrales	5	4	1 kg pkg	21.0000	22	30	30	0
12	Queso Manchego La Pastora	5	4	10 - 500 g pkgs	38.0000	86	0	0	0
13	Konbu	6	8	2 kg box	6.0000	24	0	5	0
14	Tofu	6	7	40 - 100 g pkgs	23.2500	35	0	0	0
15	Genen Shouyu	6	2	24 - 250 ml bottles	15.5000	39	0	5	0
16	Pavlova	7	3	32 - 500 g boxes	17.4500	29	0	10	0
17	Alice Mutton	7	6	20 - 1 kg tins	39.0000	0	0	0	1

2.

```
DELIMITER //

CREATE TRIGGER cekStock
BEFORE INSERT ON orderdetails
FOR EACH ROW
BEGIN
    DECLARE stock integer;
    SELECT products.UnitsInStock INTO stock FROM products
WHERE products.ProductID = New.ProductID;
    IF stock < New.Quantity THEN
        signal sqlstate '45000' set message_text = 'Stock barang
tidak mencukupi';
    END IF;
END //

DELIMITER ;
```

Hasil Running :

