

**Nama Peserta: Muchamad Muhadjir**

**Kode Peserta : FSDO001ONL018**

**Assignmetn : 2**

**Link Github : [https://github.com/Muhadjir/OCBC-H8/tree/main/018\\_MuchamadMuhadjir\\_Assignment2](https://github.com/Muhadjir/OCBC-H8/tree/main/018_MuchamadMuhadjir_Assignment2)**

**(Note :**

- 1. Saya membuat table berurut dari yang tidak memiliki foreign key didalamnya.**
- 2. Untuk Primary Key saya gunakan auto increment.**
- 3. Saya menggunakan trigger untuk otomatis stok.)**

## **Assignment 2**

### **1. Customers**

```
create table customers(  
  customerNumber int identity(1,1) primary key,  
  customertName varchar(50) not null,  
  contactLasttName varchar(50) not null,  
  contactFirstName varchar(50) not null,  
  phone varchar(15) not null,  
  addressLine1 varchar(255) not null,  
  addressLine2 varchar(255) not null,  
  city varchar(50) not null,  
  state varchar(50) not null,  
  postalCode varchar(10) not null,  
  country varchar(50) not null,  
  salesRepEmployeeNumber int not null,  
  creditLimit decimal(18,2),  
  foreign key (salesRepEmployeeNumber) references  
  employees(employeeNumber)  
);  
insert into customers(customertName,contactLasttName,  
  contactFirstName, phone, addressLine1, addressLine2, city, state,  
  postalCode, country, salesRepEmployeeNumber, creditLimit) values  
  ('Muhadjir', 'Muhadjir', 'Muchamad', '089621807942', 'Jl. Pucangan  
  4/32-A', 'Jl. Pucangan 4/32-A', 'Surabaya', 'East Java', '60282',  
  'Indonesia',3,20000000 ),  
  ('Chris', 'Chris', 'Martin', '089621807942', 'Jl. Pucangan 4/32-A',  
  'Jl. Pucangan 4/32-A', 'Bali', 'Bali', '60282',  
  'Indonesia',2,15000000 ),  
  ('Joni', 'Joni', 'Abu', '089621807942', 'Jl. Pucangan 4/32-A', 'Jl.  
  Pucangan 4/32-A', 'Jogja', 'DIY', '60282', 'Indonesia',4,30000000 ),
```

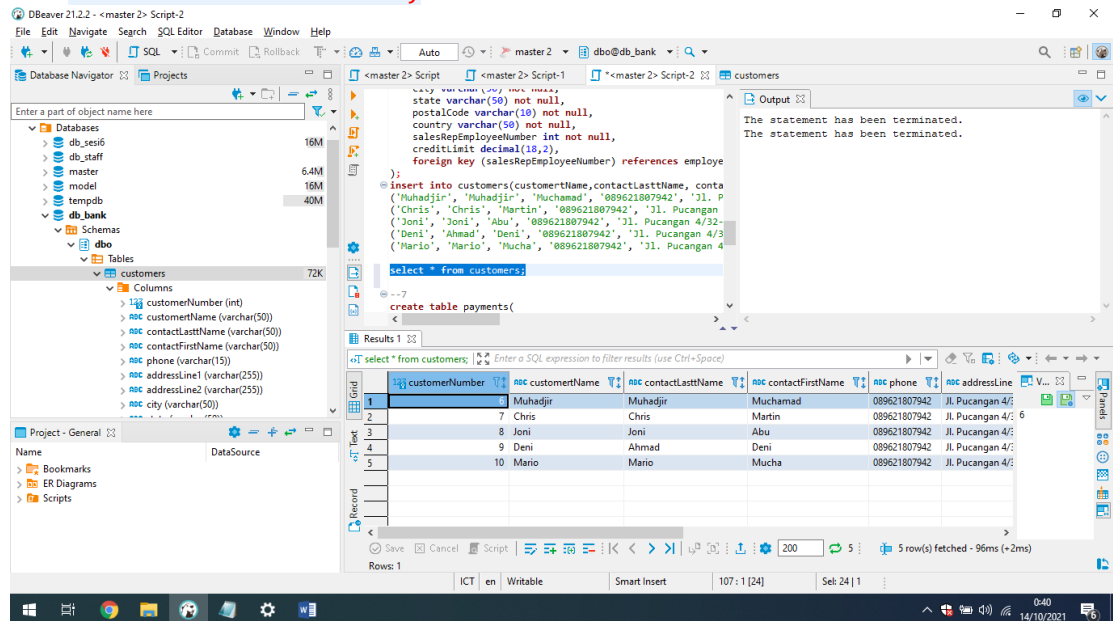
```

('Deni', 'Ahmad', 'Deni', '089621807942', 'Jl. Pucangan 4/32-A',
'Jl. Pucangan 4/32-A', 'Jakarta', 'DKI Jakarta', '60282',
'Indonesia', 5, 10000000),
('Mario', 'Mario', 'Mucha', '089621807942', 'Jl. Pucangan 4/32-A',
'Jl. Pucangan 4/32-A', 'Bandung', 'West Java', '60282',
'Indonesia', 6, 25000000);

```

NB: Untuk Tabel Customers auto incrementnya mulai dari 6, karena ada konflik sebelumnya

```
select * from customers;
```



## 2. Products

```

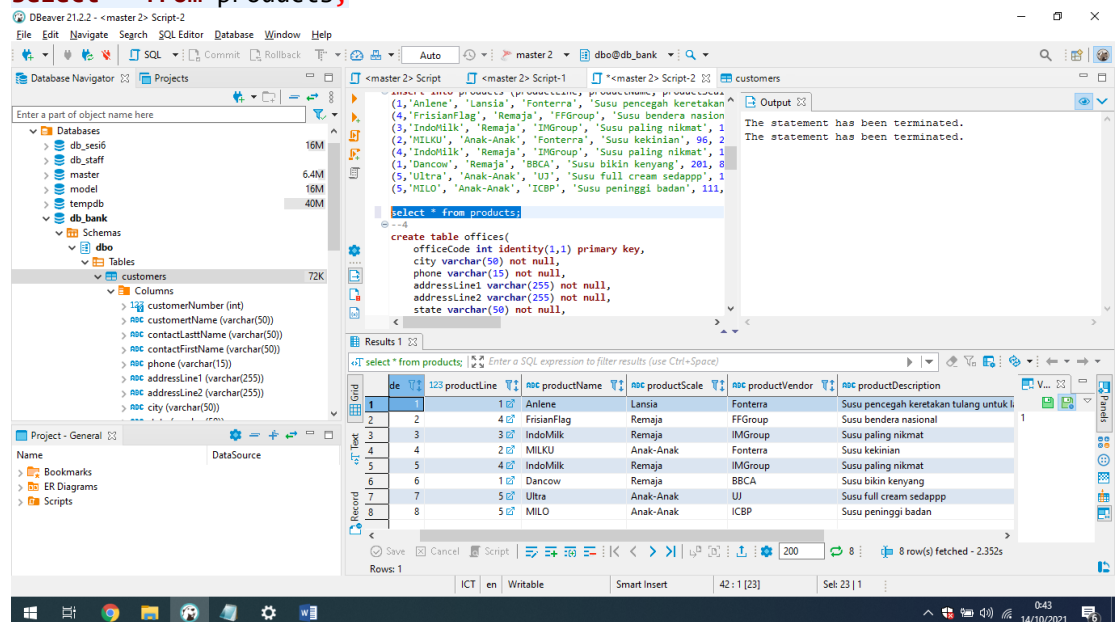
CREATE table products(
productCode int identity(1,1) primary key,
productLine int not null,
productName varchar(50) not null,
productScale varchar(50) not null,
productVendor varchar(50) not null,
productDescription varchar(50) not null,
quantityInStock int null,
buyPrice decimal(18,2),
MSRP decimal(18,2)
foreign key (productLine) references productLines(productLine)
);
insert into products (productLine, productName, productScale,
productVendor, productDescription, quantityInStock, buyPrice, MSRP)
values
(1, 'Anlene', 'Lansia', 'Fonterra', 'Susu pencegah keretakan tulang
untuk lansia', 101, 80000, 85000),
(4, 'FrisianFlag', 'Remaja', 'FFGroup', 'Susu bendera nasional', 216,
1000, 1500),

```

```

(3,'IndoMilk', 'Remaja', 'IMGroup', 'Susu paling nikmat', 156,
80000, 85000),
(2,'MILKU', 'Anak-Anak', 'Fonterra', 'Susu kekinian', 96, 2500,
3000),
(4,'IndoMilk', 'Remaja', 'IMGroup', 'Susu paling nikmat', 116, 1000,
1500),
(1,'Dancow', 'Remaja', 'BBCA', 'Susu bikin kenyang', 201, 85000,
92000),
(5,'Ultra', 'Anak-Anak', 'UJ', 'Susu full cream sedapp', 121, 3000,
3500),
(5,'MILO', 'Anak-Anak', 'ICBP', 'Susu peninggi badan', 111, 2500,
3000);
select * from products;

```

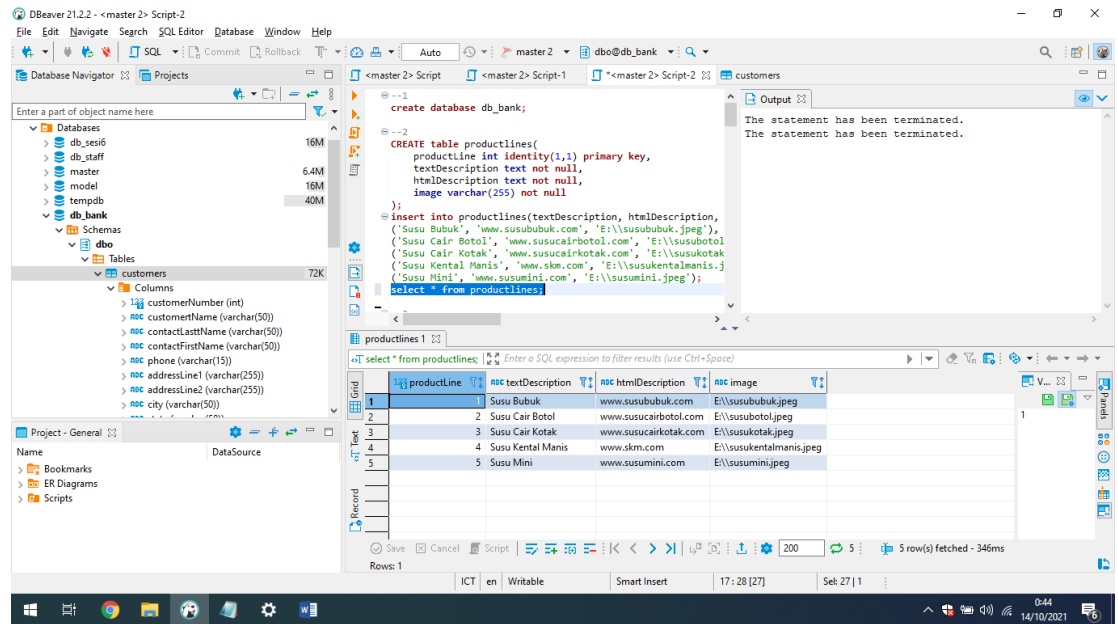


### 3. Productlines

```

CREATE table productlines(
    productLine int identity(1,1) primary key,
    textDescription text not null,
    htmlDescription text not null,
    image varchar(255) not null
);
insert into productlines(textDescription, htmlDescription, image)
values
('Susu Bubuk', 'www.susububuk.com', 'E:\\susububuk.jpeg'),
('Susu Cair Botol', 'www.susucairbotol.com', 'E:\\susubotol.jpeg'),
('Susu Cair Kotak', 'www.susucairkotak.com', 'E:\\susukotak.jpeg'),
('Susu Kental Manis', 'www.skm.com', 'E:\\susukentalmanis.jpeg'),
('Susu Mini', 'www.susumini.com', 'E:\\susumini.jpeg');
select * from productlines;

```



#### 4. Orders

```

create table orders(
  orderNumber int identity(1,1) primary key,
  orderDate date not null,
  requiredDate date not null,
  shippedDate date not null,
  status char(1),
  comments text not null,
  customerNumber int not null,
  foreign key (customerNumber) references
customers(customerNumber)
);
  
```

```

insert into orders(orderDate, requiredDate, shippedDate, status, comments,
customerNumber) values
('2020-10-10', '2020-10-11', '2020-10-12', '0', 'Dikirim Secepatnya', 6),
('2020-10-12', '2020-10-13', '2020-10-14', '0', 'Dikirim Nih', 7),
('2020-10-13', '2020-10-14', '2020-10-15', '0', 'Dikirim BOs', 8),
('2020-11-11', '2020-11-11', '2020-11-12', '0', 'Dikirim Ya', 9),
('2020-12-10', '2020-12-11', '2020-12-12', '0', 'Dikirim lah', 10);
  
```

```

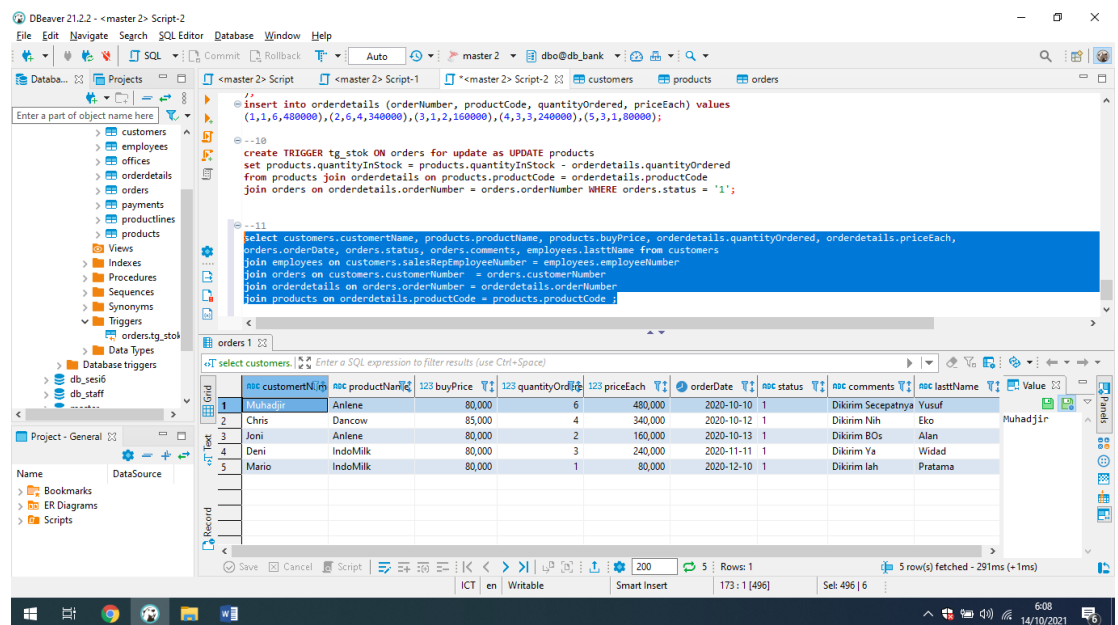
update orders set status = '1' where orderNumber = 1;
update orders set status = '1' where orderNumber = 2;
update orders set status = '1' where orderNumber = 3;
update orders set status = '1' where orderNumber = 4;
update orders set status = '1' where orderNumber = 5;
  
```

#Otomatis trigger berjalan di stok

```

select customers.customerName, products.productName, products.buyPrice,
orderdetails.quantityOrdered, orderdetails.priceEach,
orders.orderDate, orders.status, orders.comments, employees.lastName from
customers
join employees on customers.salesRepEmployeeNumber =
employees.employeeNumber
join orders on customers.customerNumber = orders.customerNumber
join orderdetails on orders.orderNumber = orderdetails.orderNumber
join products on orderdetails.productCode = products.productCode ;

```



## 5. OrderDetails

```

create table orderdetails(
orderLineNumber int identity(1,1) primary key,
orderNumber int not null,
productCode int not null,
quantityOrdered int not null,
priceEach decimal(18,2),
foreign key (productCode) references products(productCode),
foreign key (orderNumber) references orders(orderNumber)
);

```

```

insert into orderdetails (orderNumber, productCode, quantityOrdered,
priceEach) values
(1,1,6,480000),(2,6,4,340000),(3,1,2,160000),(4,3,3,240000),(5,3,1,80000);

```

```

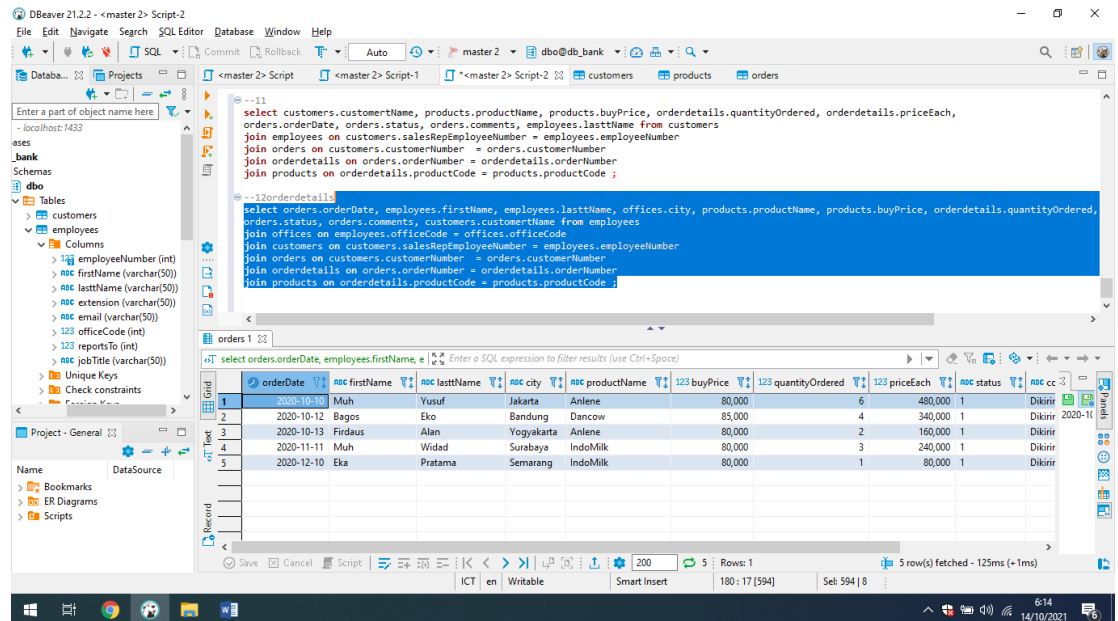
select orders.orderDate, employees.firstName, employees.lastName,
offices.city, products.productName, products.buyPrice,
orderdetails.quantityOrdered, orderdetails.priceEach,

```

```

orders.status, orders.comments, customers.customertName from employees
join offices on employees.officeCode = offices.officeCode
join customers on customers.salesRepEmployeeNumber =
employees.employeeNumber
join orders on customers.customerNumber = orders.customerNumber
join orderdetails on orders.orderNumber = orderdetails.orderNumber
join products on orderdetails.productCode = products.productCode ;

```

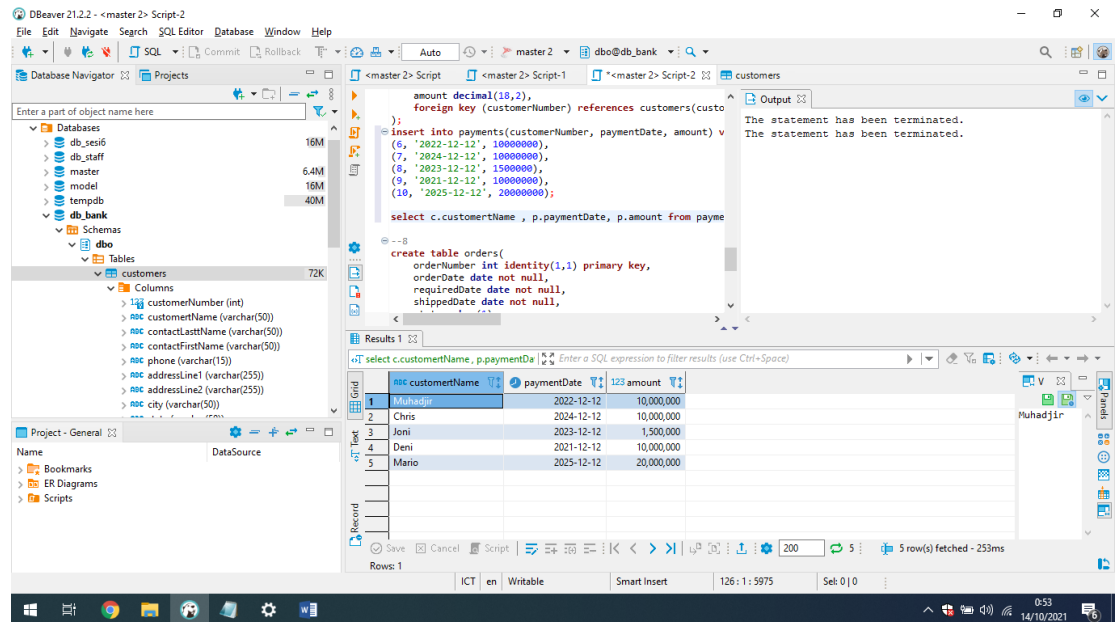


## 6. Payments

```

create table payments(
  checkNumber int identity(1,1) primary key,
  customerNumber int not null,
  paymentDate date not null,
  amount decimal(18,2),
  foreign key (customerNumber) references
customers(customerNumber)
);
insert into payments(customerNumber, paymentDate, amount) values
(6, '2022-12-12', 1000000),
(7, '2024-12-12', 1000000),
(8, '2023-12-12', 1500000),
(9, '2021-12-12', 1000000),
(10, '2025-12-12', 2000000);
select c.customertName , p.paymentDate, p.amount from payments p join
customers c on c.customerNumber = p.customerNumber;

```

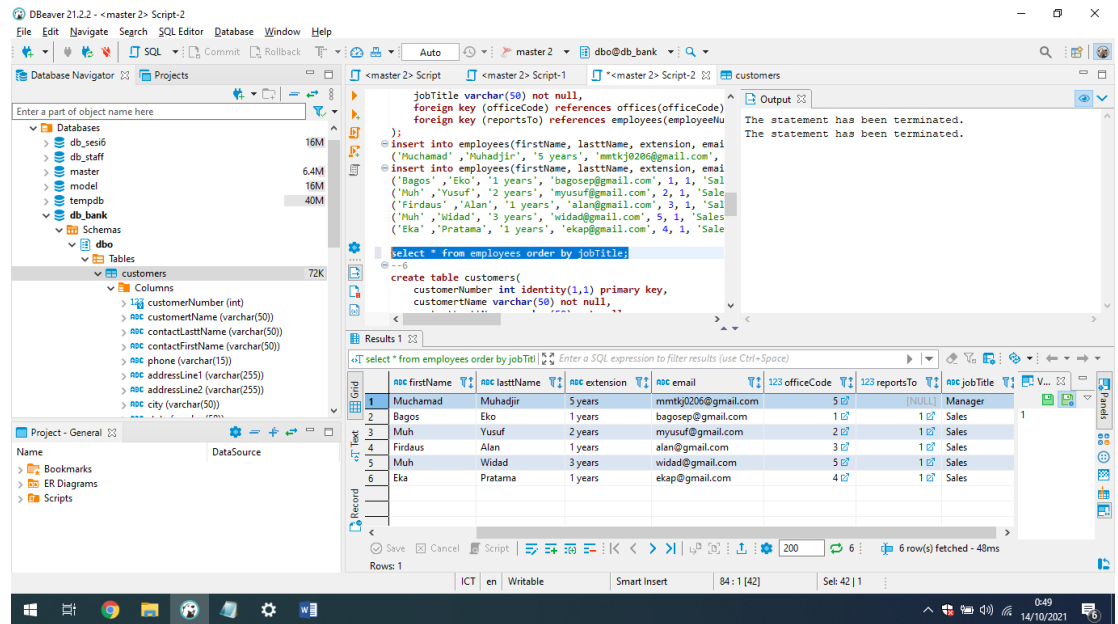


## 7. Employee

```

create table employees(
employeeNumber int identity(1,1) primary key,
firstName varchar(50) not null,
lasttName varchar(50) not null,
extension varchar(50) not null,
email varchar(50) not null,
officeCode int not null,
reportsTo int null,
jobTitle varchar(50) not null,
foreign key (officeCode) references offices(officeCode),
foreign key (reportsTo) references employees(employeeNumber)
);
insert into employees(firstName, lasttName, extension, email,
officeCode, jobTitle) values
('Muchamad', 'Muhadjir', '5 years', 'mmtkj0206@gmail.com', 5,
'Manager');
insert into employees(firstName, lasttName, extension, email,
officeCode, reportsTo, jobTitle) values
('Bagos', 'Eko', '1 years', 'bagosep@gmail.com', 1, 1, 'Sales'),
('Muh', 'Yusuf', '2 years', 'myusuf@gmail.com', 2, 1, 'Sales'),
('Firdaus', 'Alan', '1 years', 'alan@gmail.com', 3, 1, 'Sales'),
('Muh', 'Widad', '3 years', 'widad@gmail.com', 5, 1, 'Sales'),
('Eka', 'Pratama', '1 years', 'ekap@gmail.com', 4, 1, 'Sales');
select * from employees order by jobTitle;

```



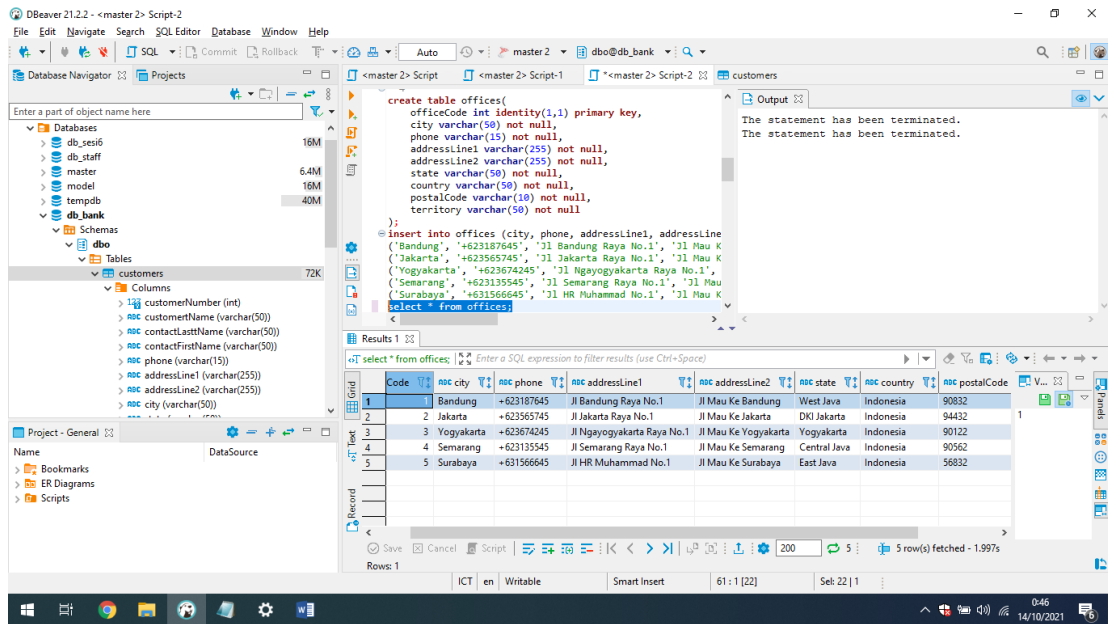
## 8. Offices

```

create table offices(
    officeCode int identity(1,1) primary key,
    city varchar(50) not null,
    phone varchar(15) not null,
    addressLine1 varchar(255) not null,
    addressLine2 varchar(255) not null,
    state varchar(50) not null,
    country varchar(50) not null,
    postalCode varchar(10) not null,
    territory varchar(50) not null
);
insert into offices (city, phone, addressLine1, addressLine2, state,
country, postalCode, territory) values
('Bandung', '+623187645', 'Jl Bandung Raya No.1', 'Jl Mau Ke Bandung',
'West Java', 'Indonesia', '90832', 'EAST'),
('Jakarta', '+623565745', 'Jl Jakarta Raya No.1', 'Jl Mau Ke Jakarta',
'DKI Jakarta', 'Indonesia', '94432', 'NORTH WEST'),
('Yogyakarta', '+623674245', 'Jl Ngayogyakarta Raya No.1', 'Jl Mau Ke
Yogyakarta', 'Yogyakarta', 'Indonesia', '90122', 'NORTH'),
('Semarang', '+623135545', 'Jl Semarang Raya No.1', 'Jl Mau Ke
Semarang', 'Central Java', 'Indonesia', '90562', 'NORTH EAST'),
('Surabaya', '+6231566645', 'Jl HR Muhammad No.1', 'Jl Mau Ke Surabaya',
'East Java', 'Indonesia', '56832', 'WEST');
select * from offices;

```





## 9. Trigger Stok

**create TRIGGER** tg\_stok **ON** orders **for update as UPDATE** products  
**set** products.quantityInStock = products.quantityInStock -  
 orderdetails.quantityOrdered  
**from** products **join** orderdetails **on** products.productCode =  
 orderdetails.productCode  
**join** orders **on** orderdetails.orderNumber = orders.orderNumber **WHERE**  
 orders.status = '1';

