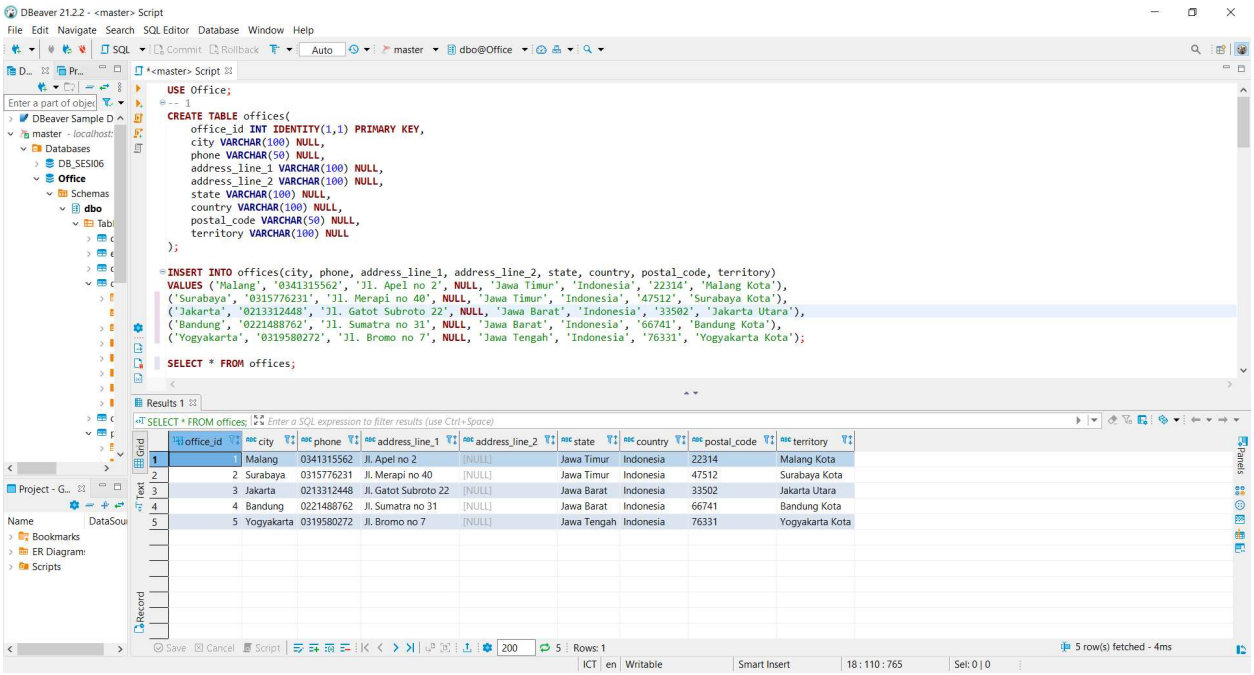
Nama Peserta: Indra Gunawan Budiharjo

Kode Peserta : FSDO001ONL027

Tugas : Assignment 2

Screenshot

1. Table offices

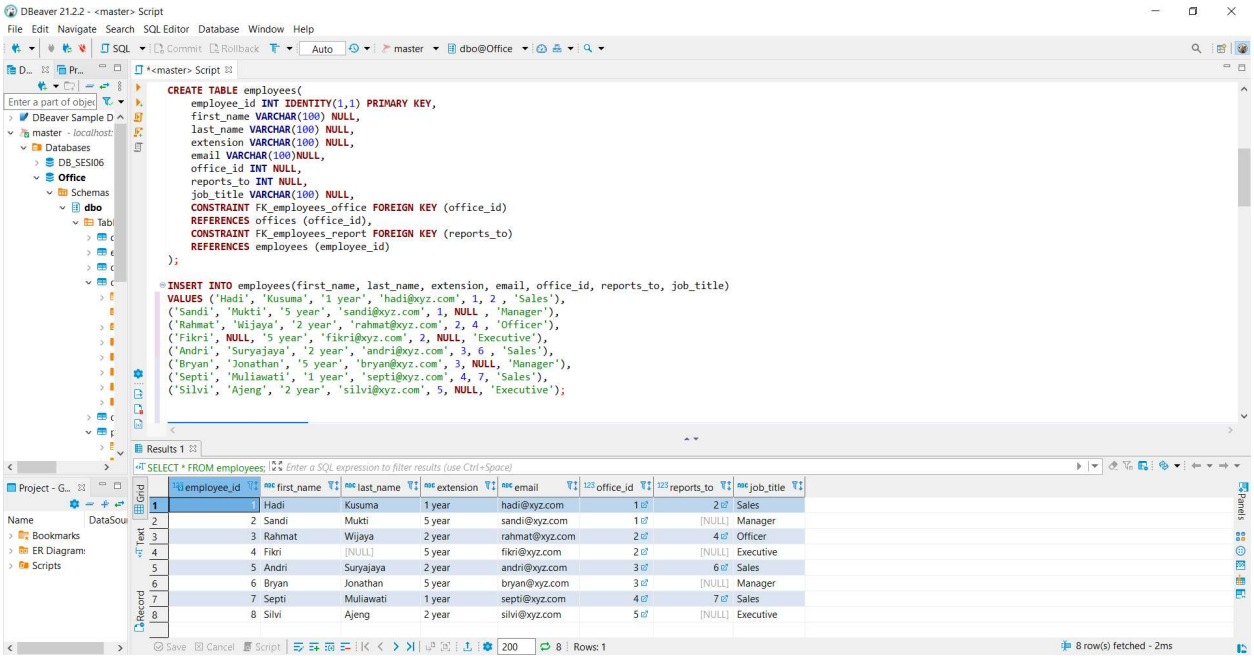


Query:

```
CREATE TABLE offices(
	office_id INT IDENTITY(1,1) PRIMARY KEY,
	city VARCHAR(100) NULL,
	phone VARCHAR(50) NULL,
	address_line_1 VARCHAR(100) NULL,
	address_line_2 VARCHAR(100) NULL,
	state VARCHAR(100) NULL,
	country VARCHAR(100) NULL,
	postal_code VARCHAR(50) NULL,
	territory VARCHAR(100) NULL
);

INSERT INTO offices(city, phone, address_line_1, address_line_2, state, country,
postal_code, territory)
VALUES ('Malang', '0341315562', 'Jl. Apel no 2', NULL, 'Jawa Timur', 'Indonesia',
'22314', 'Malang Kota'),
('Surabaya', '0315776231', 'Jl. Merapi no 40', NULL, 'Jawa Timur', 'Indonesia',
'47512', 'Surabaya Kota'),
('Jakarta', '0213312448', 'Jl. Gatot Subroto 22', NULL, 'Jawa Barat', 'Indonesia',
'33502', 'Jakarta Utara'),
```

```
('Bandung', '0221488762', 'Jl. Sumatra no 31', NULL, 'Jawa Barat', 'Indonesia',
'66741', 'Bandung Kota'),
('Yogyakarta', '0319580272', 'Jl. Bromo no 7', NULL, 'Jawa Tengah', 'Indonesia',
'76331', 'Yogyakarta Kota');
```

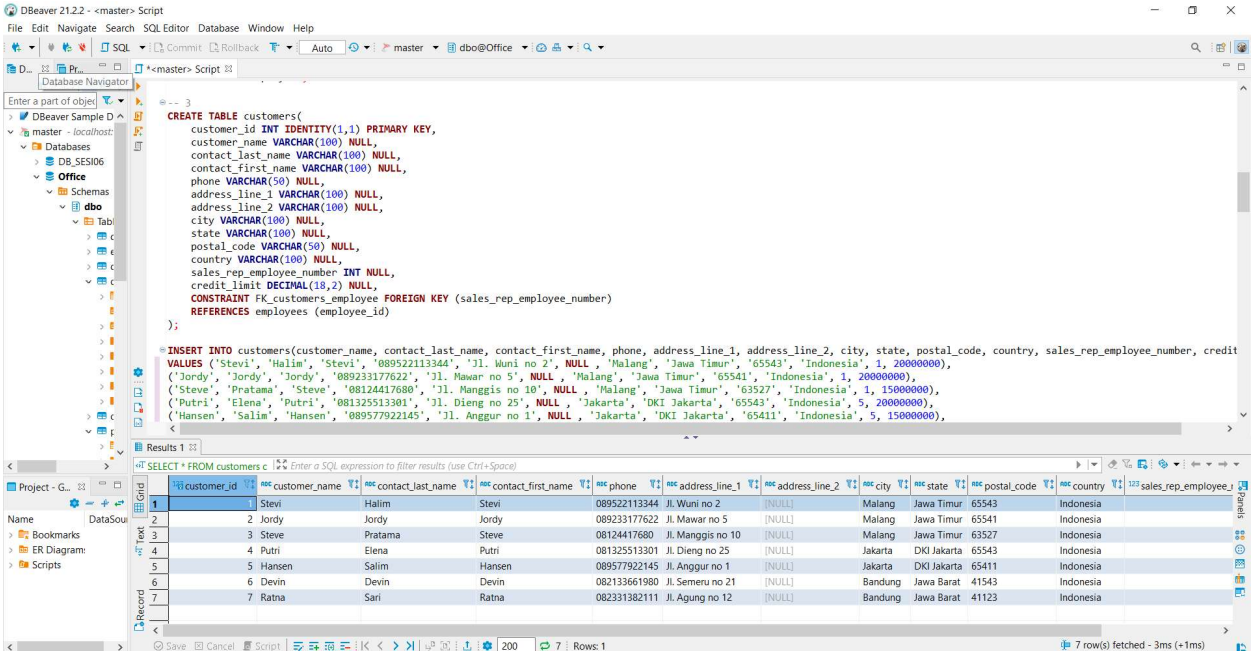
2. Table employees



Query:

```
CREATE TABLE employees(
	employee_id INT IDENTITY(1,1) PRIMARY KEY,
	first_name VARCHAR(100) NULL,
	last_name VARCHAR(100) NULL,
	extension VARCHAR(100) NULL,
	email VARCHAR(100)NULL,
	office_id INT NULL,
	reports_to INT NULL,
	job_title VARCHAR(100) NULL,
	CONSTRAINT FK_employees_office FOREIGN KEY (office_id)
	REFERENCES offices (office_id),
	CONSTRAINT FK_employees_report FOREIGN KEY (reports_to)
	REFERENCES employees (employee_id)
);

INSERT INTO employees(first_name, last_name, extension, email, office_id, reports_to,
job_title)
VALUES ('Hadi', 'Kusuma', '1 year', 'hadi@xyz.com', 1, 2 , 'Sales'),
('Sandi', 'Mukti', '5 year', 'sandi@xyz.com', 1, NULL , 'Manager'),
('Rahmat', 'Wijaya', '2 year', 'rahmat@xyz.com', 2, 4 , 'Officer'),
('Fikri', NULL, '5 year', 'fikri@xyz.com', 2, NULL, 'Executive'),
('Andri', 'Suryajaya', '2 year', 'andri@xyz.com', 3, 6 , 'Sales'),
('Bryan', 'Jonathan', '5 year', 'bryan@xyz.com', 3, NULL, 'Manager'),
('Septi', 'Muliawati', '1 year', 'septi@xyz.com', 4, 7, 'Sales'),
('Silvi', 'Ajeng', '2 year', 'silvi@xyz.com', 5, NULL, 'Executive');
```

3. Table customers

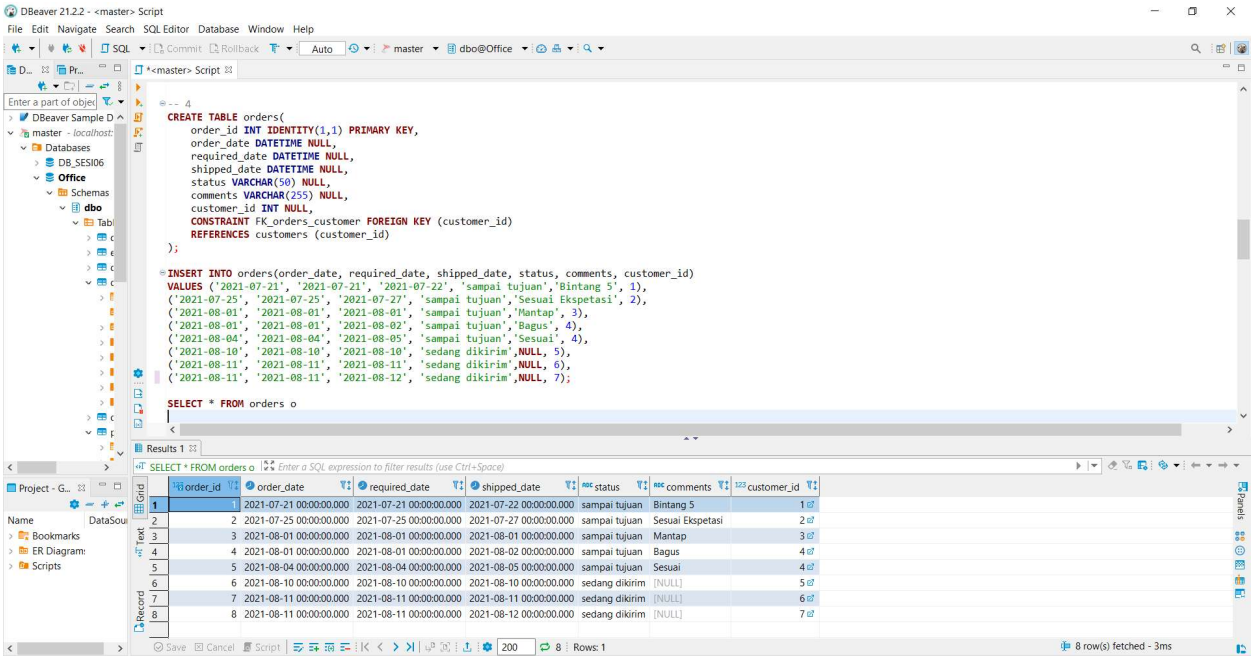


Query:

```
CREATE TABLE customers(
	customer_id INT IDENTITY(1,1) PRIMARY KEY,
	customer_name VARCHAR(100) NULL,
	contact_last_name VARCHAR(100) NULL,
	contact_first_name VARCHAR(100) NULL,
	phone VARCHAR(50) NULL,
	address_line_1 VARCHAR(100) NULL,
	address_line_2 VARCHAR(100) NULL,
	city VARCHAR(100) NULL,
	state VARCHAR(100) NULL,
	postal_code VARCHAR(50) NULL,
	country VARCHAR(100) NULL,
	sales_rep_employee_number INT NULL,
	credit_limit DECIMAL(18,2) NULL,
	CONSTRAINT FK_customers_employee FOREIGN KEY (sales_rep_employee_number)
	REFERENCES employees (employee_id)
);

INSERT INTO customers(customer_name, contact_last_name, contact_first_name, phone,
address_line_1, address_line_2, city, state, postal_code, country,
sales_rep_employee_number, credit_limit)
VALUES ('Stevi', 'Halim', 'Stevi', '089522113344', 'Jl. Wuni no 2', NULL , 'Malang',
'Jawa Timur', '65543', 'Indonesia', 1, 20000000),
('Jordy', 'Jordy', 'Jordy', '089233177622', 'Jl. Mawar no 5', NULL , 'Malang', 'Jawa
Timur', '65541', 'Indonesia', 1, 20000000),
('Steve', 'Pratama', 'Steve', '08124417680', 'Jl. Manggis no 10', NULL , 'Malang',
'Jawa Timur', '63527', 'Indonesia', 1, 15000000),
```

```
('Putri', 'Elena', 'Putri', '081325513301', 'Jl. Dieng no 25', NULL , 'Jakarta', 'DKI
Jakarta', '65543', 'Indonesia', 5, 20000000),
('Hansen', 'Salim', 'Hansen', '089577922145', 'Jl. Anggur no 1', NULL , 'Jakarta',
'DKI Jakarta', '65411', 'Indonesia', 5, 15000000),
('Devin', 'Devin', 'Devin', '082133661980', 'Jl. Semeru no 21', NULL , 'Bandung',
'Jawa Barat', '41543', 'Indonesia', 7, 20000000),
('Ratna', 'Sari', 'Ratna', '082331382111', 'Jl. Agung no 12', NULL , 'Bandung', 'Jawa
Barat', '41123', 'Indonesia', 7, 20000000);
```

4. Table orders

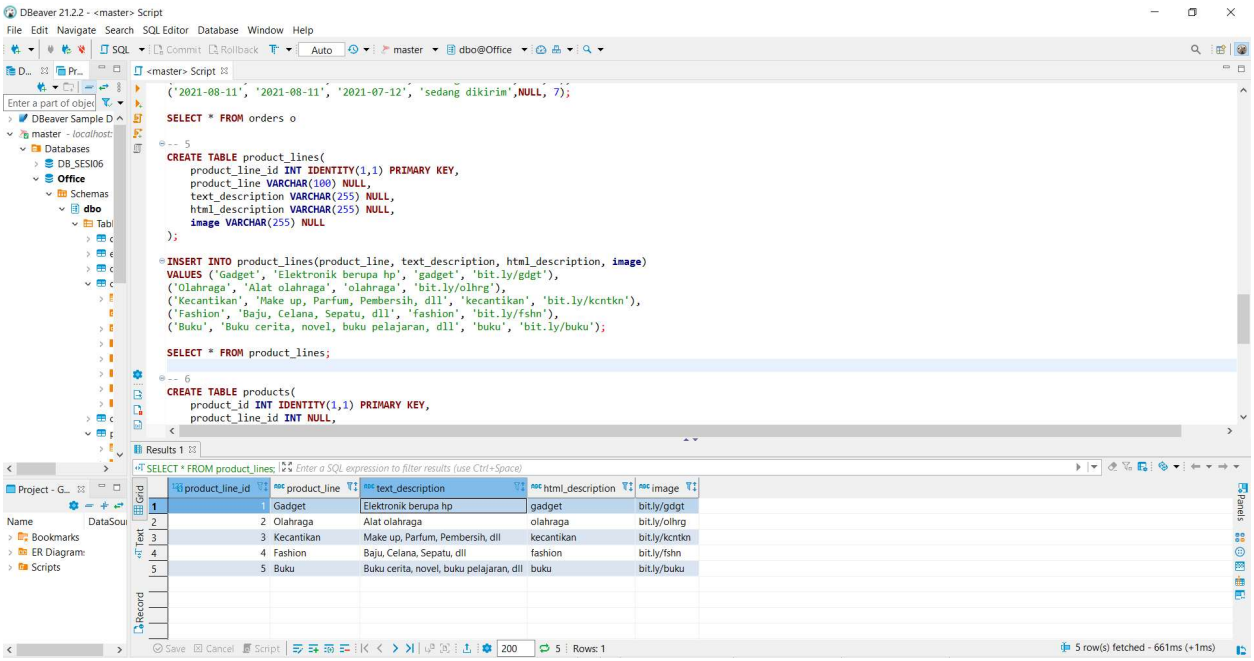


Query:

```
CREATE TABLE orders(
	order_id INT IDENTITY(1,1) PRIMARY KEY,
	order_date DATETIME NULL,
	required_date DATETIME NULL,
	shipped_date DATETIME NULL,
	status VARCHAR(50) NULL,
	comments VARCHAR(255) NULL,
	customer_id INT NULL,
	CONSTRAINT FK_orders_customer FOREIGN KEY (customer_id)
	REFERENCES customers (customer_id)
);

INSERT INTO orders(order_date, required_date, shipped_date, status, comments,
customer_id)
VALUES ('2021-07-21', '2021-07-21', '2021-07-22', 'sampai tujuan','Bintang 5', 1),
('2021-07-25', '2021-07-25', '2021-07-27', 'sampai tujuan','Sesuai Ekspetasi', 2),
('2021-08-01', '2021-08-01', '2021-08-01', 'sampai tujuan','Mantap', 3),
('2021-08-01', '2021-08-01', '2021-08-02', 'sampai tujuan','Bagus', 4),
('2021-08-04', '2021-08-04', '2021-08-05', 'sampai tujuan','Sesuai', 4),
('2021-08-10', '2021-08-10', '2021-08-10', 'sedang dikirim',NULL, 5),
```

```
('2021-08-11', '2021-08-11', '2021-08-11', 'sedang dikirim',NULL, 6),
('2021-08-11', '2021-08-11', '2021-08-12', 'sedang dikirim',NULL, 7);
```

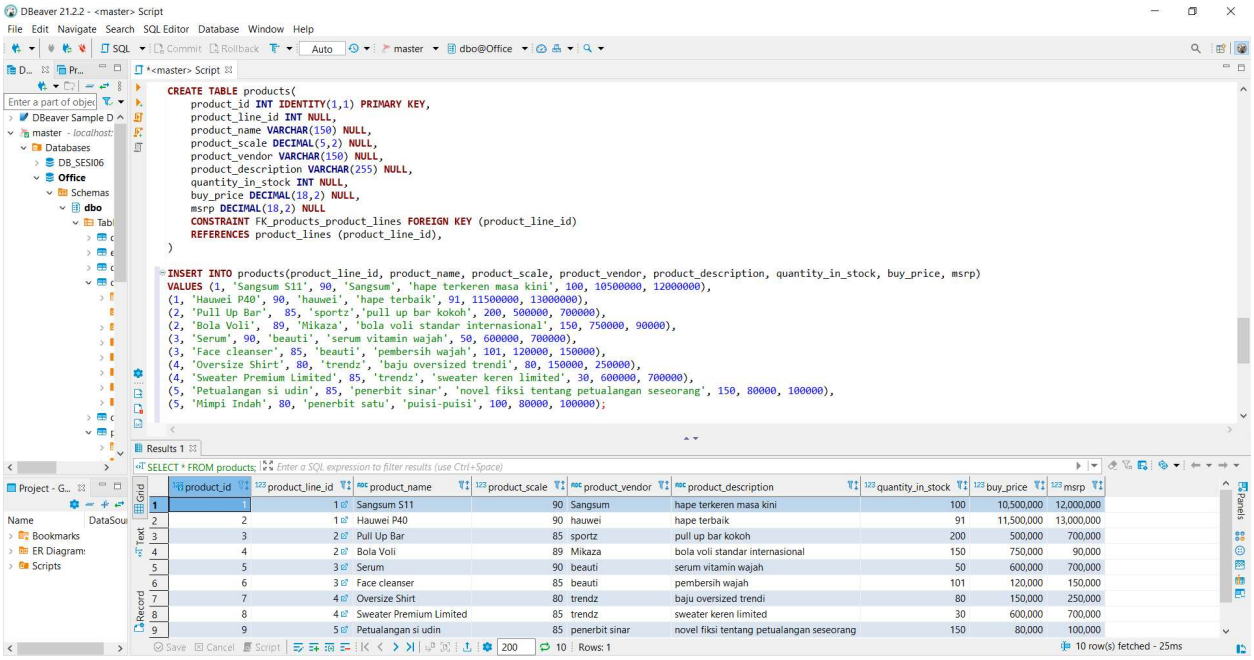
5. Table product_lines



Query:

```
CREATE TABLE product_lines(
	product_line_id INT IDENTITY(1,1) PRIMARY KEY,
	product_line VARCHAR(100) NULL,
	text_description VARCHAR(255) NULL,
	html_description VARCHAR(255) NULL,
	image VARCHAR(255) NULL
);

INSERT INTO product_lines(product_line, text_description, html_description, image)
VALUES ('Gadget', 'Elektronik berupa hp', 'gadget', 'bit.ly/gdgt'),
('Olahraga', 'Alat olahraga', 'olahraga', 'bit.ly/olhrg'),
('Kecantikan', 'Make up, Parfum, Pembersih, dll', 'kecantikan', 'bit.ly/kcntkn'),
('Fashion', 'Baju, Celana, Sepatu, dll', 'fashion', 'bit.ly/fshn'),
('Buku', 'Buku cerita, novel, buku pelajaran, dll', 'buku', 'bit.ly/buku');
```

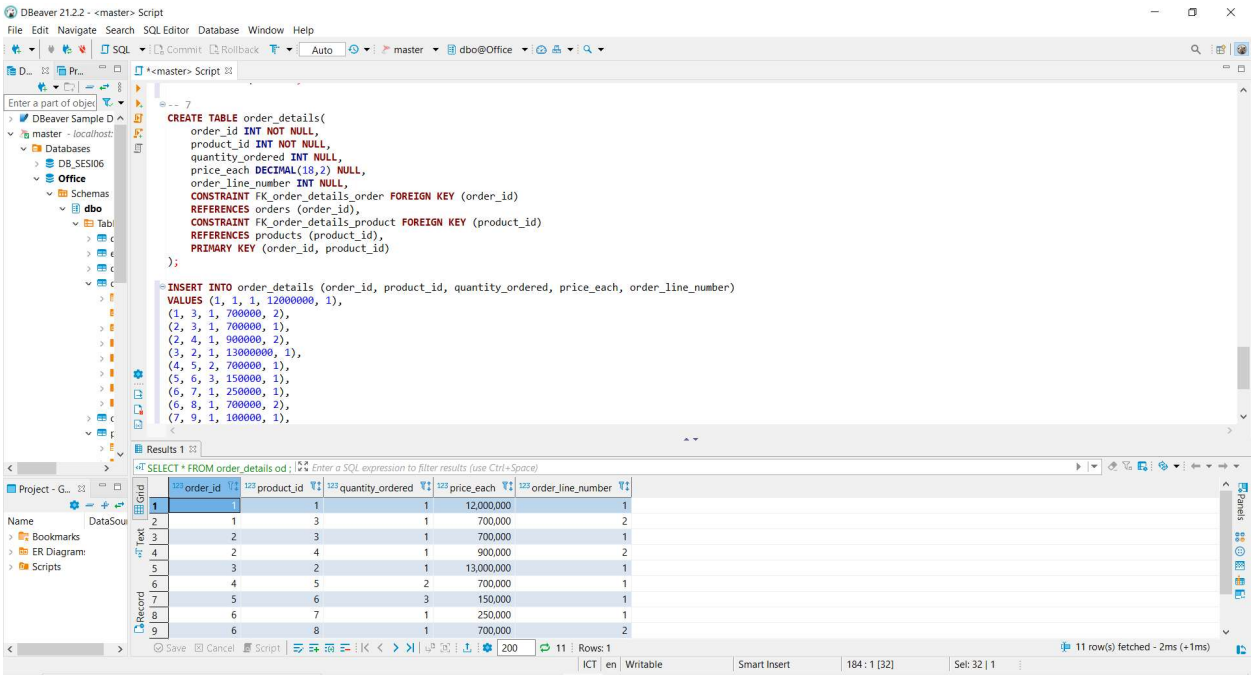
6. Table products



Query:

```
CREATE TABLE products(
	product_id INT IDENTITY(1,1) PRIMARY KEY,
	product_line_id	INT NULL,
	product_name VARCHAR(150) NULL,
	product_scale DECIMAL(5,2) NULL,
	product_vendor VARCHAR(150) NULL,
	product_description VARCHAR(255) NULL,
	quantity_in_stock INT NULL,
	buy_price DECIMAL(18,2) NULL,
	msrp DECIMAL(18,2) NULL
	CONSTRAINT FK_products_product_lines FOREIGN KEY (product_line_id)
	REFERENCES product_lines (product_line_id),
)

INSERT INTO products(product_line_id, product_name, product_scale, product_vendor,
product_description, quantity_in_stock, buy_price, msrp)
VALUES (1, 'Sangsum S11', 90, 'Sangsum', 'hape terkeren masa kini', 100, 10500000,
12000000),
(1, 'Hauwei P40', 90, 'hauwei', 'hape terbaik', 91, 11500000, 13000000),
(2, 'Pull Up Bar',  85, 'sportz','pull up bar kokoh', 200, 500000, 700000),
(2, 'Bola Voli',  89, 'Mikaza', 'bola voli standar internasional', 150, 750000,
900000),
(3, 'Serum', 90, 'beauti', 'serum vitamin wajah', 50, 600000, 700000),
(3, 'Face cleanser', 85, 'beauti', 'pembersih wajah', 101, 120000, 150000),
(4, 'Oversize Shirt', 80, 'trendz', 'baju oversized trendi', 80, 150000, 250000),
(4, 'Sweater Premium Limited', 85, 'trendz', 'sweater keren limited', 30, 600000,
700000),
(5, 'Petualangan si udin', 85, 'penerbit sinar', 'novel fiksi tentang petualangan
seseorang', 150, 80000, 100000),
(5, 'Mimpi Indah', 80, 'penerbit satu', 'puisi-puisi', 100, 80000, 100000);
```

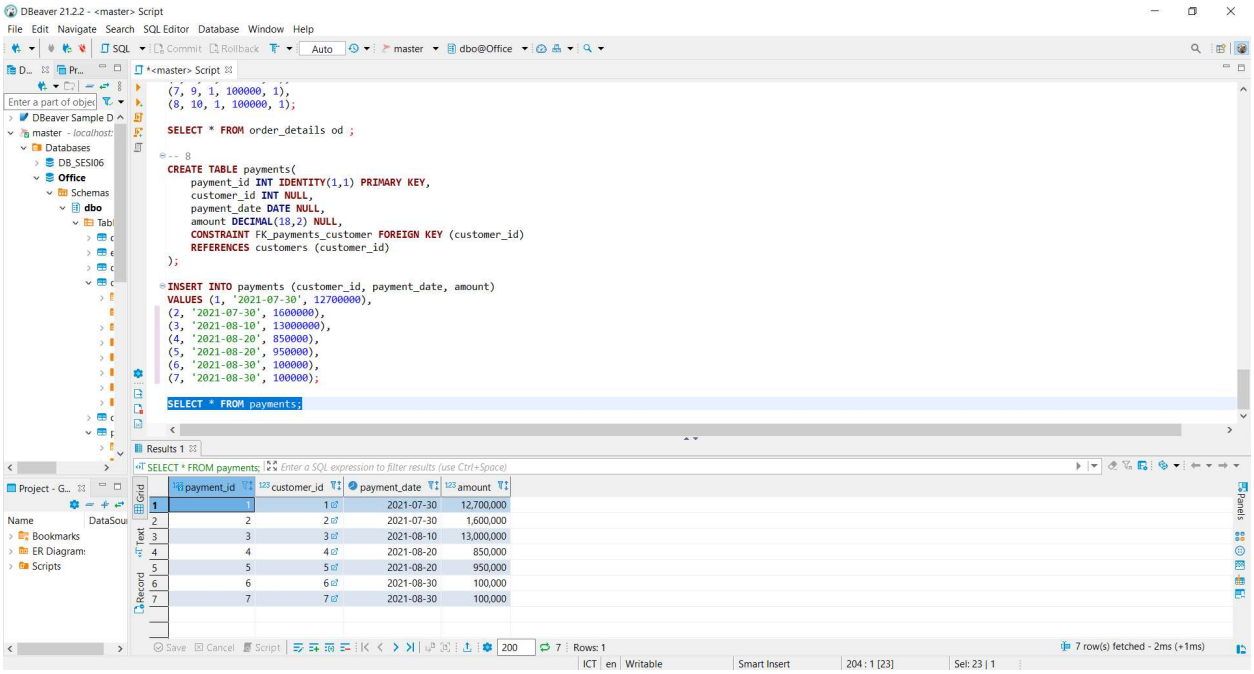
7. Table order_details



Query:

```
CREATE TABLE order_details(
	order_id INT NOT NULL,
	product_id INT NOT NULL,
	quantity_ordered INT NULL,
	price_each DECIMAL(18,2) NULL,
	order_line_number INT NULL,
	CONSTRAINT FK_order_details_order FOREIGN KEY (order_id)
	REFERENCES orders (order_id),
	CONSTRAINT FK_order_details_product FOREIGN KEY (product_id)
	REFERENCES products (product_id),
	PRIMARY KEY (order_id, product_id)
);

INSERT INTO order_details (order_id, product_id, quantity_ordered, price_each,
order_line_number)
VALUES (1, 1, 1, 12000000, 1),
(1, 3, 1, 700000, 2),
(2, 3, 1, 700000, 1),
(2, 4, 1, 900000, 2),
(3, 2, 1, 13000000, 1),
(4, 5, 2, 700000, 1),
(5, 6, 3, 150000, 1),
(6, 7, 1, 250000, 1),
(6, 8, 1, 700000, 2),
(7, 9, 1, 100000, 1),
(8, 10, 1, 100000, 1);
```

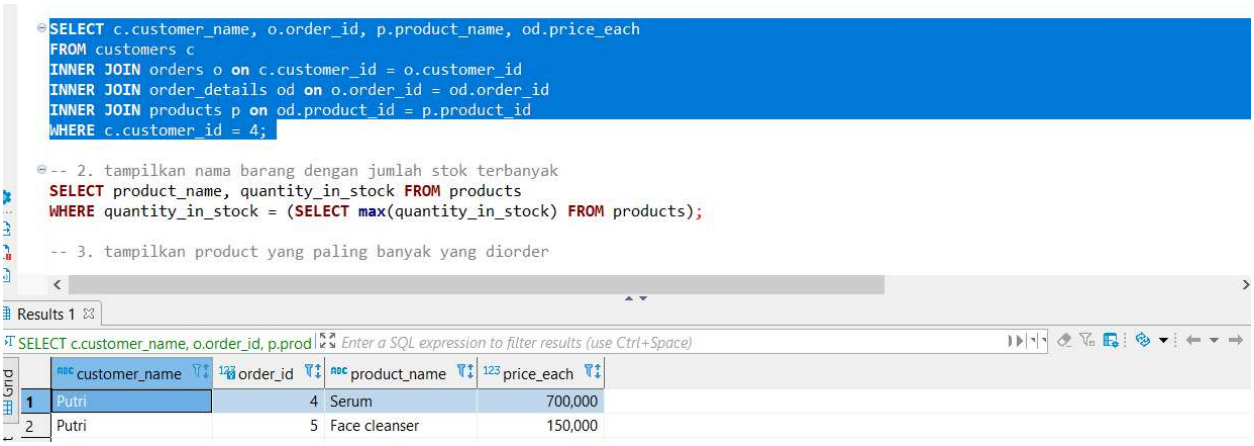
8. Table Payment



Query:

```
CREATE TABLE payments(
	payment_id INT IDENTITY(1,1) PRIMARY KEY,
	customer_id INT NULL,
	payment_date DATE NULL,
	amount DECIMAL(18,2) NULL,
	CONSTRAINT FK_payments_customer FOREIGN KEY (customer_id)
	REFERENCES customers (customer_id)
);

INSERT INTO payments (customer_id, payment_date, amount)
VALUES (1, '2021-07-30', 12700000),
(2, '2021-07-30', 1600000),
(3, '2021-08-10', 13000000),
(4, '2021-08-20', 850000),
(5, '2021-08-20', 950000),
(6, '2021-08-30', 100000),
(7, '2021-08-30', 100000);
```

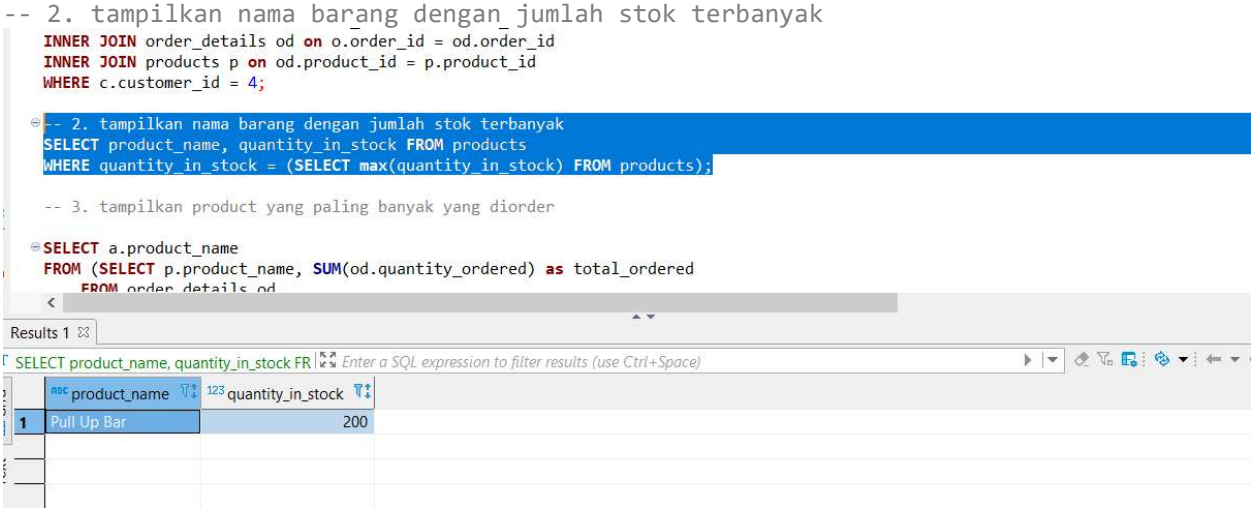
```
-- Query data

-- 1. tampilkan nama customer, order_id, nama produk, harga tiap produk dari
customer_id 4
```



Query:

```
SELECT c.customer_name, o.order_id, p.product_name, od.price_each
FROM customers c
INNER JOIN orders o on c.customer_id = o.customer_id
INNER JOIN order_details od on o.order_id = od.order_id
INNER JOIN products p on od.product_id = p.product_id
WHERE c.customer_id = 4;
```

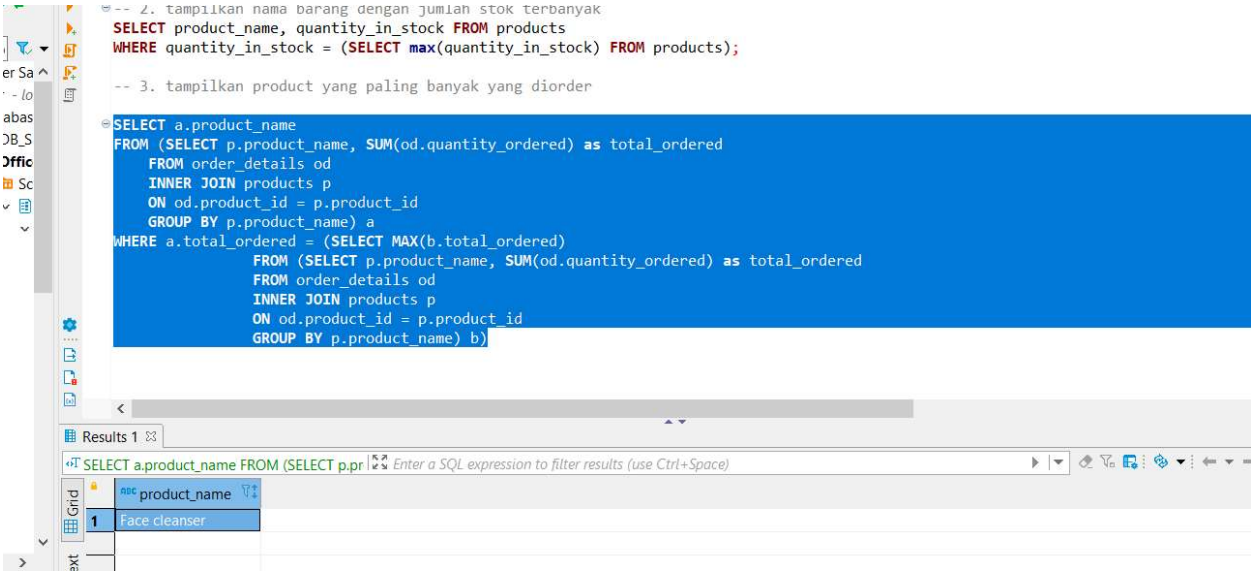
```
-- 2. tampilkan nama barang dengan jumlah stok terbanyak
```



Query:

```
SELECT product_name, quantity_in_stock FROM products
WHERE quantity_in_stock = (SELECT max(quantity_in_stock) FROM products);
```

-- 3. tampilkan product yang paling banyak yang diorder



Query:

```
SELECT a.product_name
FROM (SELECT p.product_name, SUM(od.quantity_ordered) as total_ordered
       FROM order_details od
       INNER JOIN products p
       ON od.product_id = p.product_id
       GROUP BY p.product_name) a
WHERE a.total_ordered = (SELECT MAX(b.total_ordered)
                         FROM (SELECT p.product_name, SUM(od.quantity_ordered) as
total_ordered
                         FROM order_details od
                         INNER JOIN products p
                         ON od.product_id = p.product_id
                         GROUP BY p.product_name) b)
```