

Nama : Febri Wijaya Hutagalung

Nomor Peserta : FSDO001ONL012

Tugas : Assignment 2

Jawaban :

## 1. Screenshot dan kode program

```
SELECT * FROM employees;

--menambah data customers
INSERT INTO customers VALUES ('wijaya', 'febri', 'hutagalung', '082363109174', 'Jalan 1', 'Jalan 2', 'Medan', 'sumut', '20142', 'indonesia', '1', 'credit limit 1');
INSERT INTO customers VALUES ('salim', 'irene', 'simanjuntak', '082363109171', 'Jalan 1a', 'Jalan 2a', 'Jakarta', 'jakarta', '20143', 'indonesia', '2', 'credit limit 2');
INSERT INTO customers VALUES ('luis', 'barker', 'simangunsong', '082363109172', 'Jalan 1b', 'Jalan 2b', 'Bandung', 'jabar', '20141', 'indonesia', '3', 'credit limit 3');
INSERT INTO customers VALUES ('july', 'nine', 'panggabean', '082363109173', 'Jalan 1c', 'Jalan 2c', 'pontianak', 'kalim', '20144', 'indonesia', '4', 'credit limit 4');
INSERT INTO customers VALUES ('susi', 'vetricia', 'hutabarat', '082363109175', 'Jalan 1d', 'Jalan 2d', 'kalimantan barat', 'kalbar', '20145', 'indonesia', '5', 'credit limit 5');

SELECT * FROM customers;
```

	customerNumber	customerName	contactLastName	contactFirstName	phone	addressLine1	addressLine2	city	state	postalCode	country	salesRepEmployeeNumber	creditLimit
1	1	wijaya	febri	hutagalung	082363109174	Jalan 1	Jalan 2	Medan	sumut	20142	indonesia	1	credit limit 1
2	2	salim	irene	simanjuntak	082363109171	Jalan 1a	Jalan 2a	Jakarta	jakarta	20143	indonesia	2	credit limit 2
3	3	luis	barker	simangunsong	082363109172	Jalan 1b	Jalan 2b	Bandung	jabar	20141	indonesia	3	credit limit 3
4	4	july	nine	panggabean	082363109173	Jalan 1c	Jalan 2c	pontianak	kalim	20144	indonesia	4	credit limit 4
5	5	susi	vetricia	hutabarat	082363109175	Jalan 1d	Jalan 2d	kalimantan barat	kalbar	20145	indonesia	5	credit limit 5

Query executed successfully. DESKTOP-740NSG4 (15.0 RTM) DESKTOP-740NSG4/febri ... Bank 00:00:00 5 rows

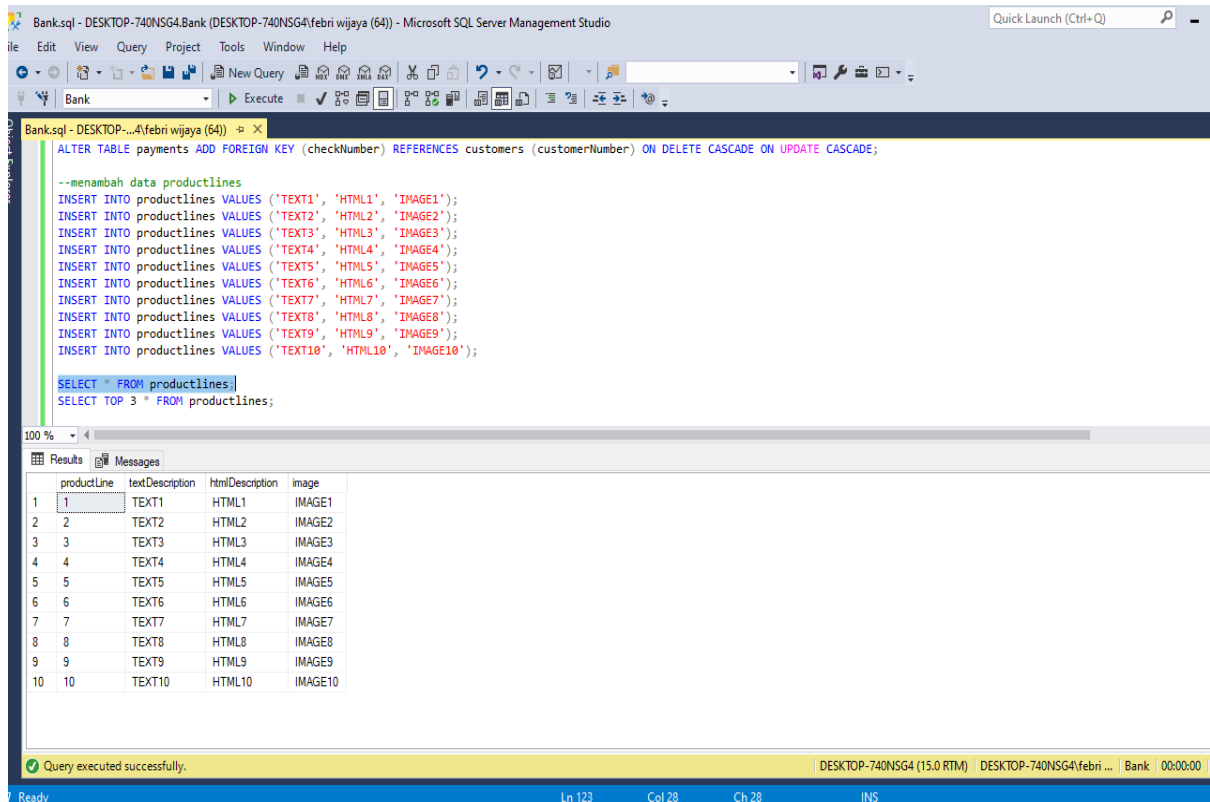
## 2. Screenshot dan kode program

```
--menambah data product
INSERT INTO products VALUES ('MOTOR1', '1', 'PRODUCT SCALE1', 'PRODUCT VENDOR1', 'INI MOTOR 1', '2', '1000', 'MSRP1');
INSERT INTO products VALUES ('MOTOR2', '1', 'PRODUCT SCALE2', 'PRODUCT VENDOR2', 'INI MOTOR 2', '2', '2000', 'MSRP2');
INSERT INTO products VALUES ('MOTOR3', '2', 'PRODUCT SCALE3', 'PRODUCT VENDOR3', 'INI MOTOR 3', '3', '3000', 'MSRP3');
INSERT INTO products VALUES ('MOTOR4', '2', 'PRODUCT SCALE4', 'PRODUCT VENDOR4', 'INI MOTOR 4', '2', '2500', 'MSRP4');
INSERT INTO products VALUES ('MOTOR5', '3', 'PRODUCT SCALE5', 'PRODUCT VENDOR5', 'INI MOTOR 5', '4', '4000', 'MSRP5');
INSERT INTO products VALUES ('MOTOR6', '3', 'PRODUCT SCALE6', 'PRODUCT VENDOR6', 'INI MOTOR 6', '5', '5000', 'MSRP6');
INSERT INTO products VALUES ('MOTOR7', '3', 'PRODUCT SCALE7', 'PRODUCT VENDOR7', 'INI MOTOR 7', '6', '6000', 'MSRP7');
INSERT INTO products VALUES ('MOTOR8', '4', 'PRODUCT SCALE8', 'PRODUCT VENDOR8', 'INI MOTOR 8', '7', '7000', 'MSRP8');
INSERT INTO products VALUES ('MOTOR9', '5', 'PRODUCT SCALE9', 'PRODUCT VENDOR9', 'INI MOTOR 9', '8', '8000', 'MSRP9');
INSERT INTO products VALUES ('MOTOR10', '6', 'PRODUCT SCALE10', 'PRODUCT VENDOR10', 'INI MOTOR 10', '2', '20000', 'MSRP10');

SELECT * FROM products;
SELECT * FROM products WHERE quantityInStock > 3;
```

	productCode	productName	productLine	productScale	productVendor	productDescription	quantityInStock	buyPrice	msrp
1	1	MOTOR1	1	PRODUCT SCALE1	PRODUCT VENDOR1	INI MOTOR 1	2	1000	MSRP1
2	2	MOTOR2	1	PRODUCT SCALE2	PRODUCT VENDOR2	INI MOTOR 2	2	2000	MSRP2
3	3	MOTOR3	2	PRODUCT SCALE3	PRODUCT VENDOR3	INI MOTOR 3	3	3000	MSRP3
4	4	MOTOR4	2	PRODUCT SCALE4	PRODUCT VENDOR4	INI MOTOR 4	2	2500	MSRP4
5	5	MOTOR5	3	PRODUCT SCALE5	PRODUCT VENDOR5	INI MOTOR 5	4	4000	MSRP5
6	6	MOTOR6	3	PRODUCT SCALE6	PRODUCT VENDOR6	INI MOTOR 6	5	5000	MSRP6
7	7	MOTOR7	3	PRODUCT SCALE7	PRODUCT VENDOR7	INI MOTOR 7	6	6000	MSRP7
8	8	MOTOR8	4	PRODUCT SCALE8	PRODUCT VENDOR8	INI MOTOR 8	7	7000	MSRP8
9	9	MOTOR9	5	PRODUCT SCALE9	PRODUCT VENDOR9	INI MOTOR 9	8	8000	MSRP9
10	10	MOTOR10	6	PRODUCT SCALE10	PRODUCT VENDOR10	INI MOTOR 10	2	20000	MSRP10

### 3. Screenshot dan kode program



```
ALTER TABLE payments ADD FOREIGN KEY (checkNumber) REFERENCES customers (customerNumber) ON DELETE CASCADE ON UPDATE CASCADE;

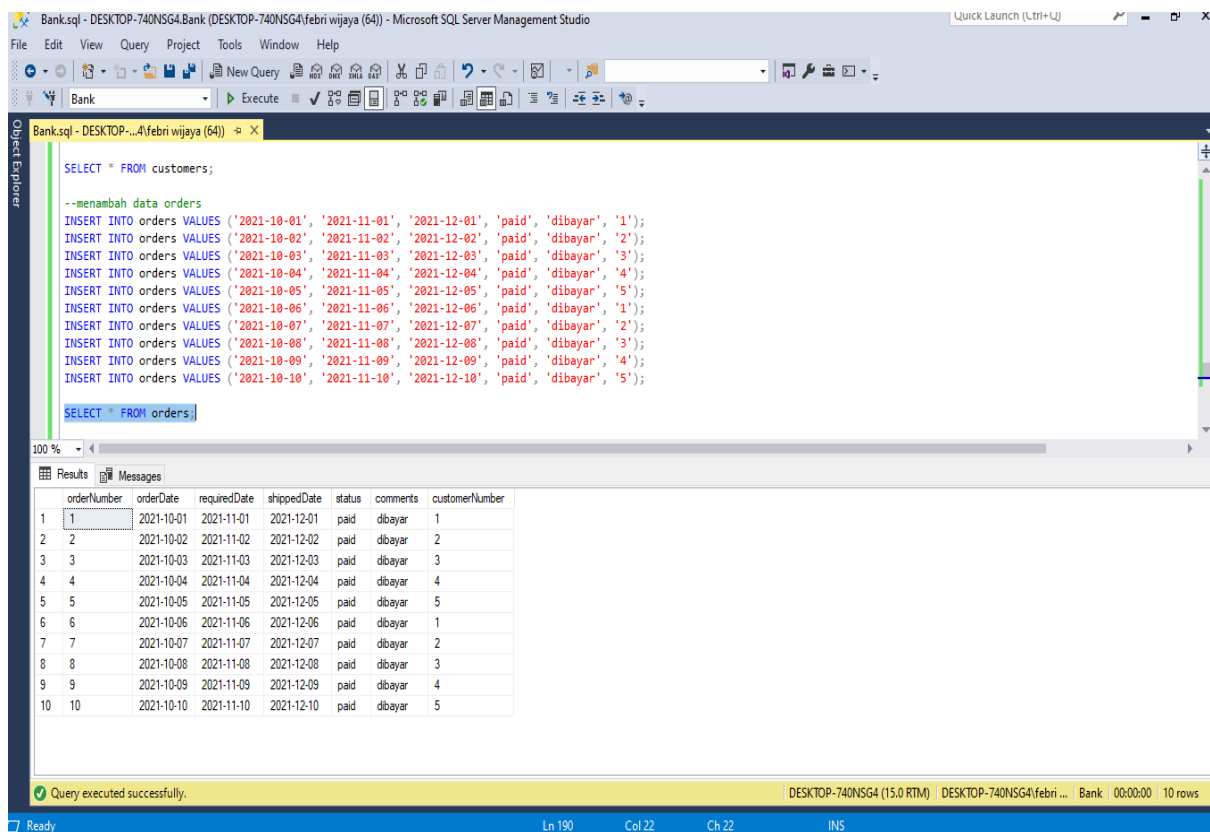
--menambah data productlines
INSERT INTO productlines VALUES ('TEXT1', 'HTML1', 'IMAGE1');
INSERT INTO productlines VALUES ('TEXT2', 'HTML2', 'IMAGE2');
INSERT INTO productlines VALUES ('TEXT3', 'HTML3', 'IMAGE3');
INSERT INTO productlines VALUES ('TEXT4', 'HTML4', 'IMAGE4');
INSERT INTO productlines VALUES ('TEXT5', 'HTML5', 'IMAGE5');
INSERT INTO productlines VALUES ('TEXT6', 'HTML6', 'IMAGE6');
INSERT INTO productlines VALUES ('TEXT7', 'HTML7', 'IMAGE7');
INSERT INTO productlines VALUES ('TEXT8', 'HTML8', 'IMAGE8');
INSERT INTO productlines VALUES ('TEXT9', 'HTML9', 'IMAGE9');
INSERT INTO productlines VALUES ('TEXT10', 'HTML10', 'IMAGE10');

SELECT * FROM productlines;
SELECT TOP 3 * FROM productlines;
```

productLine	textDescription	htmlDescription	image
1	TEXT1	HTML1	IMAGE1
2	TEXT2	HTML2	IMAGE2
3	TEXT3	HTML3	IMAGE3
4	TEXT4	HTML4	IMAGE4
5	TEXT5	HTML5	IMAGE5
6	TEXT6	HTML6	IMAGE6
7	TEXT7	HTML7	IMAGE7
8	TEXT8	HTML8	IMAGE8
9	TEXT9	HTML9	IMAGE9
10	TEXT10	HTML10	IMAGE10

Query executed successfully. DESKTOP-740NSG4 (15.0 RTM) DESKTOP-740NSG4/febr... Bank 00:00:00

### 4. Screenshot dan kode program



```
SELECT * FROM customers;

--menambah data orders
INSERT INTO orders VALUES ('2021-10-01', '2021-11-01', '2021-12-01', 'paid', 'dibayar', '1');
INSERT INTO orders VALUES ('2021-10-02', '2021-11-02', '2021-12-02', 'paid', 'dibayar', '2');
INSERT INTO orders VALUES ('2021-10-03', '2021-11-03', '2021-12-03', 'paid', 'dibayar', '3');
INSERT INTO orders VALUES ('2021-10-04', '2021-11-04', '2021-12-04', 'paid', 'dibayar', '4');
INSERT INTO orders VALUES ('2021-10-05', '2021-11-05', '2021-12-05', 'paid', 'dibayar', '5');
INSERT INTO orders VALUES ('2021-10-06', '2021-11-06', '2021-12-06', 'paid', 'dibayar', '1');
INSERT INTO orders VALUES ('2021-10-07', '2021-11-07', '2021-12-07', 'paid', 'dibayar', '2');
INSERT INTO orders VALUES ('2021-10-08', '2021-11-08', '2021-12-08', 'paid', 'dibayar', '3');
INSERT INTO orders VALUES ('2021-10-09', '2021-11-09', '2021-12-09', 'paid', 'dibayar', '4');
INSERT INTO orders VALUES ('2021-10-10', '2021-11-10', '2021-12-10', 'paid', 'dibayar', '5');

SELECT * FROM orders;
```

orderNumber	orderDate	requiredDate	shippedDate	status	comments	customerNumber
1	2021-10-01	2021-11-01	2021-12-01	paid	dibayar	1
2	2021-10-02	2021-11-02	2021-12-02	paid	dibayar	2
3	2021-10-03	2021-11-03	2021-12-03	paid	dibayar	3
4	2021-10-04	2021-11-04	2021-12-04	paid	dibayar	4
5	2021-10-05	2021-11-05	2021-12-05	paid	dibayar	5
6	2021-10-06	2021-11-06	2021-12-06	paid	dibayar	1
7	2021-10-07	2021-11-07	2021-12-07	paid	dibayar	2
8	2021-10-08	2021-11-08	2021-12-08	paid	dibayar	3
9	2021-10-09	2021-11-09	2021-12-09	paid	dibayar	4
10	2021-10-10	2021-11-10	2021-12-10	paid	dibayar	5

Query executed successfully. DESKTOP-740NSG4 (15.0 RTM) DESKTOP-740NSG4/febr... Bank 00:00:00 10 rows

## 5. Screenshot dan kode program

The screenshot shows a SQL Server Enterprise Manager window with a query editor and a results grid. The query editor contains the following SQL code:

```
--menambah data orderdetails
INSERT INTO orderdetails VALUES ('1', '1', '2', '10000', 'order line number');
INSERT INTO orderdetails VALUES ('2', '2', '3', '30000', 'order line number 1');
INSERT INTO orderdetails VALUES ('3', '2', '4', '40000', 'order line number 2');
INSERT INTO orderdetails VALUES ('4', '3', '5', '50000', 'order line number 3');
INSERT INTO orderdetails VALUES ('5', '3', '6', '60000', 'order line number 4');
INSERT INTO orderdetails VALUES ('2', '4', '2', '70000', 'order line number 5');

SELECT * FROM orderdetails;
```

The results grid displays the following data:

orderNumber	productCode	quantityOrdered	priceEach	orderLineNumber
1	1	2	10000	order line number
2	2	2	30000	order line number 1
3	2	4	40000	order line number 2
4	3	5	50000	order line number 3
5	3	6	60000	order line number 4
6	2	4	70000	order line number 5

The status bar at the bottom indicates "Query executed successfully." and "DESKTOP-740NSG4 (15.0 RTM) | DESKTOP-740NSG4/febr ... | Bank | 00:00:00 | 6 rows".

## 6. Screenshot dan kode program

The screenshot shows a SQL Server Enterprise Manager window with a query editor and a results grid. The query editor contains the following SQL code:

```
--menambah data payments
INSERT INTO payments VALUES ('1', '2021-10-01', '2');
INSERT INTO payments VALUES ('2', '2021-10-02', '2');
INSERT INTO payments VALUES ('3', '2021-10-03', '4');
INSERT INTO payments VALUES ('4', '2021-10-04', '5');
INSERT INTO payments VALUES ('5', '2021-10-05', '2');
INSERT INTO payments VALUES ('1', '2021-10-06', '3');
INSERT INTO payments VALUES ('2', '2021-10-07', '2');

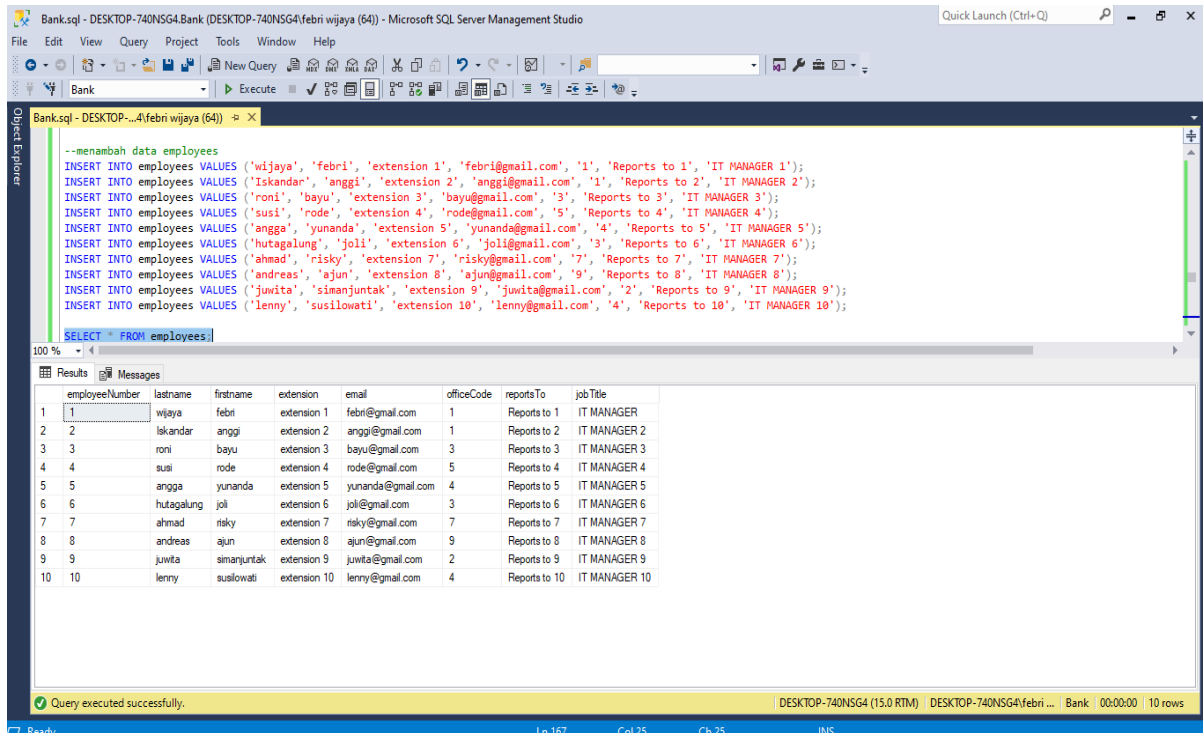
SELECT * FROM payments;
```

The results grid displays the following data:

customerNumber	checkNumber	paymentDate	amount
1	1	2021-10-01	2
2	2	2021-10-02	2
3	3	2021-10-03	4
4	4	2021-10-04	5
5	5	2021-10-05	2
6	1	2021-10-06	3
7	2	2021-10-07	2

The status bar at the bottom indicates "Query executed successfully." and "DESKTOP-740NSG4 (15.0 RTM) | DESKTOP-740NSG4/febr ... | Bank | 00:00:00 | 7 rows".

## 7. Screenshot dan kode program



The screenshot displays the Microsoft SQL Server Enterprise Manager interface. The main window shows a SQL query in the Query Editor, which is used to insert data into the 'employees' table. The query consists of ten INSERT statements, each adding a new employee record with details like employee number, last name, first name, extension, email, office code, reports to, and job title. Below the query editor, the 'Results' pane shows the output of the query, which is a table with 10 rows and 8 columns. The status bar at the bottom indicates that the query was executed successfully and returned 10 rows.

```
--menambah data employees
INSERT INTO employees VALUES ('wijaya', 'febri', 'extension 1', 'febri@gmail.com', '1', 'Reports to 1', 'IT MANAGER 1');
INSERT INTO employees VALUES ('Iskandar', 'anggi', 'extension 2', 'anggi@gmail.com', '1', 'Reports to 2', 'IT MANAGER 2');
INSERT INTO employees VALUES ('roni', 'bayu', 'extension 3', 'bayu@gmail.com', '3', 'Reports to 3', 'IT MANAGER 3');
INSERT INTO employees VALUES ('susi', 'rode', 'extension 4', 'rode@gmail.com', '5', 'Reports to 4', 'IT MANAGER 4');
INSERT INTO employees VALUES ('angga', 'yunanda', 'extension 5', 'yunanda@gmail.com', '4', 'Reports to 5', 'IT MANAGER 5');
INSERT INTO employees VALUES ('hutagalung', 'joli', 'extension 6', 'joli@gmail.com', '3', 'Reports to 6', 'IT MANAGER 6');
INSERT INTO employees VALUES ('ahmad', 'risky', 'extension 7', 'risky@gmail.com', '7', 'Reports to 7', 'IT MANAGER 7');
INSERT INTO employees VALUES ('andreas', 'ajun', 'extension 8', 'ajun@gmail.com', '9', 'Reports to 8', 'IT MANAGER 8');
INSERT INTO employees VALUES ('juwita', 'simanjuntak', 'extension 9', 'juwita@gmail.com', '2', 'Reports to 9', 'IT MANAGER 9');
INSERT INTO employees VALUES ('lenny', 'susilowati', 'extension 10', 'lenny@gmail.com', '4', 'Reports to 10', 'IT MANAGER 10');

SELECT * FROM employees;
```

employeeNumber	lastname	firstname	extension	email	officeCode	reportsTo	jobTitle
1	wijaya	febri	extension 1	febri@gmail.com	1	Reports to 1	IT MANAGER 1
2	Iskandar	anggi	extension 2	anggi@gmail.com	1	Reports to 2	IT MANAGER 2
3	roni	bayu	extension 3	bayu@gmail.com	3	Reports to 3	IT MANAGER 3
4	susi	rode	extension 4	rode@gmail.com	5	Reports to 4	IT MANAGER 4
5	angga	yunanda	extension 5	yunanda@gmail.com	4	Reports to 5	IT MANAGER 5
6	hutagalung	joli	extension 6	joli@gmail.com	3	Reports to 6	IT MANAGER 6
7	ahmad	risky	extension 7	risky@gmail.com	7	Reports to 7	IT MANAGER 7
8	andreas	ajun	extension 8	ajun@gmail.com	9	Reports to 8	IT MANAGER 8
9	juwita	simanjuntak	extension 9	juwita@gmail.com	2	Reports to 9	IT MANAGER 9
10	lenny	susilowati	extension 10	lenny@gmail.com	4	Reports to 10	IT MANAGER 10

Query executed successfully. DESKTOP-740NSG4 (15.0 RTM) DESKTOP-740NSG4/febri ... Bank 00:00:00 10 rows

## 8. Screenshot dan kode program

The screenshot displays the Microsoft SQL Server Enterprise Manager interface. The top pane shows a SQL query being executed in the 'Bank.sql' file. The query consists of ten INSERT statements into the 'offices' table, each adding a new office record with details like officeCode, city, phone, addressLine1, addressLine2, state, country, postalCode, and territory. The bottom pane shows the results of the query, which is a table with 10 rows and 9 columns. The status bar at the bottom indicates that the query was executed successfully.

```
--menambah data offices
INSERT INTO offices VALUES ('Medan', '082363109174', 'jl sisingamangaraja', 'jl pattimura', 'SUMUT', 'INDONESIA', '20141', 'Territory 1');
INSERT INTO offices VALUES ('Jakarta', '082363109175', 'jl sisingamangaraja 2', 'jl pattimura 2', 'SUMUT 1', 'INDONESIA', '20142', 'Territory 2');
INSERT INTO offices VALUES ('Bandung', '082363109176', 'jl sisingamangaraja 3', 'jl pattimura 3', 'SUMUT 2', 'INDONESIA', '20143', 'Territory 3');
INSERT INTO offices VALUES ('Malang', '082363109177', 'jl sisingamangaraja 4', 'jl pattimura 4', 'SUMUT 3', 'INDONESIA', '20144', 'Territory 4');
INSERT INTO offices VALUES ('Semarang', '082363109178', 'jl sisingamangaraja 5', 'jl pattimura 5', 'SUMUT 4', 'INDONESIA', '20145', 'Territory 5');
INSERT INTO offices VALUES ('Lampung', '082363109179', 'jl sisingamangaraja 6', 'jl pattimura 6', 'SUMUT 5', 'INDONESIA', '20146', 'Territory 6');
INSERT INTO offices VALUES ('Makassar', '082363109170', 'jl sisingamangaraja 7', 'jl pattimura 7', 'SUMUT 6', 'INDONESIA', '20147', 'Territory 7');
INSERT INTO offices VALUES ('Jambi', '082363109112', 'jl sisingamangaraja 8', 'jl pattimura 8', 'SUMUT 7', 'INDONESIA', '20148', 'Territory 8');
INSERT INTO offices VALUES ('Batam', '082363109113', 'jl sisingamangaraja 9', 'jl pattimura 9', 'SUMUT 8', 'INDONESIA', '20149', 'Territory 9');
INSERT INTO offices VALUES ('Maluku', '082363109114', 'jl sisingamangaraja 10', 'jl pattimura 10', 'SUMUT 9', 'INDONESIA', '20140', 'Territory 10');

SELECT * FROM offices;
```

officeCode	city	phone	addressLine1	addressLine2	state	country	postalCode	territory
1	Medan	082363109174	jl sisingamangaraja	jl pattimura	SUMUT	INDONESIA	20141	Territory 1
2	Jakarta	082363109175	jl sisingamangaraja 2	jl pattimura 2	SUMUT 1	INDONESIA	20142	Territory 2
3	Bandung	082363109176	jl sisingamangaraja 3	jl pattimura 3	SUMUT 2	INDONESIA	20143	Territory 3
4	Malang	082363109177	jl sisingamangaraja 4	jl pattimura 4	SUMUT 3	INDONESIA	20144	Territory 4
5	Semarang	082363109178	jl sisingamangaraja 5	jl pattimura 5	SUMUT 4	INDONESIA	20145	Territory 5
6	Lampung	082363109179	jl sisingamangaraja 6	jl pattimura 6	SUMUT 5	INDONESIA	20146	Territory 6
7	Makassar	082363109170	jl sisingamangaraja 7	jl pattimura 7	SUMUT 6	INDONESIA	20147	Territory 7
8	Jambi	082363109112	jl sisingamangaraja 8	jl pattimura 8	SUMUT 7	INDONESIA	20148	Territory 8
9	Batam	082363109113	jl sisingamangaraja 9	jl pattimura 9	SUMUT 8	INDONESIA	20149	Territory 9
10	Maluku	082363109114	jl sisingamangaraja 10	jl pattimura 10	SUMUT 9	INDONESIA	20140	Territory 10

Query executed successfully. DESKTOP-740NSG4 (15.0 RTM) DESKTOP-740NSG4\febr... Bank 00:00:00 10 rows

**NB :** Untuk lebih lengkap mengenai code relasi tabel silahkan lihat pada query Bank.sql.