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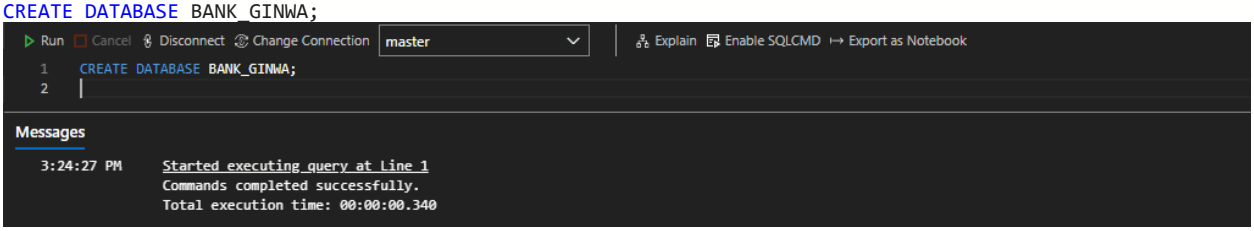
Tools : Azure Data Studio, MS SQL SERVER 2017

1. Buat Database BANK_GINWA

Query:

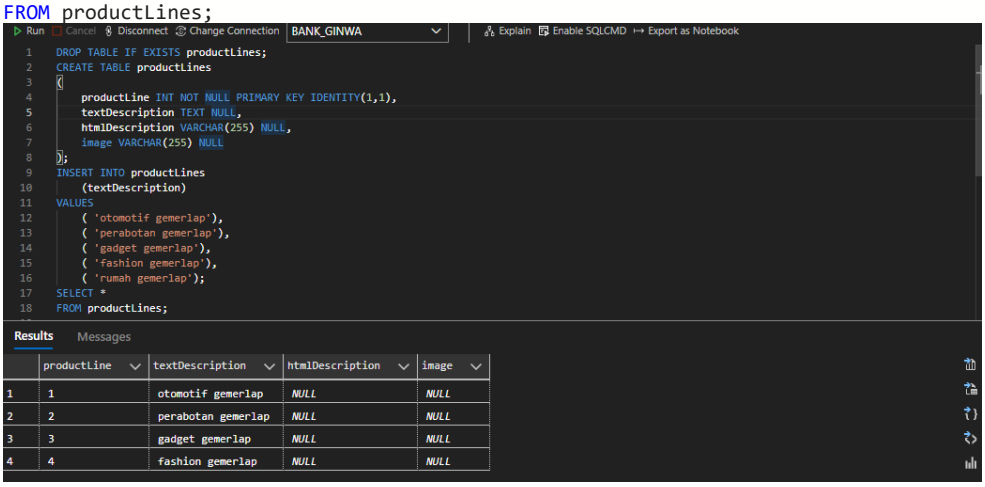
```
CREATE DATABASE BANK_GINWA;
```



2. Buat Table productLines, lalu insert data

Query:

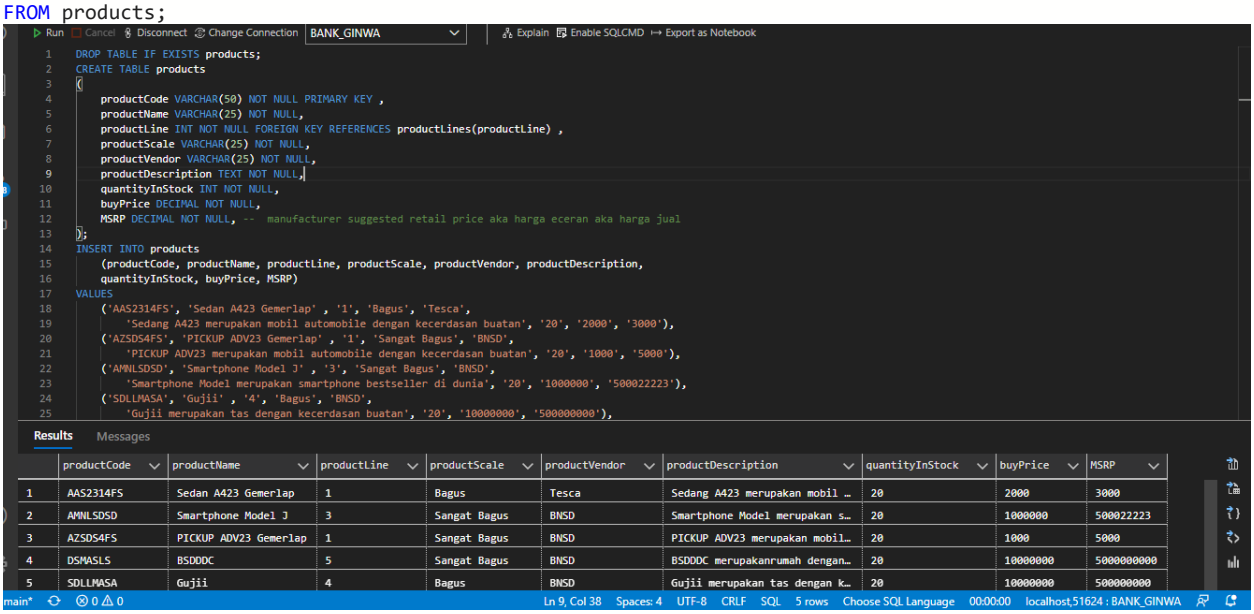
```
DROP TABLE IF EXISTS productLines;
CREATE TABLE productLines
(
    productLine INT NOT NULL PRIMARY KEY IDENTITY(1,1),
    textDescription TEXT NULL,
    htmlDescription VARCHAR(255) NULL,
    image VARCHAR(255) NULL
);
INSERT INTO productLines
    (textDescription)
VALUES
    ( 'otomotif gemerlap'),
    ( 'perabotan gemerlap'),
    ( 'gadget gemerlap'),
    ( 'fashion gemerlap'),
    ( 'rumah gemerlap');
SELECT *
FROM productLines;
```



3. Buat table products, lalu insert data

Query:

```
DROP TABLE IF EXISTS products;
CREATE TABLE products
(
    productCode VARCHAR(50) NOT NULL PRIMARY KEY ,
    productName VARCHAR(25) NOT NULL,
    productLine INT NOT NULL FOREIGN KEY REFERENCES productLines(productLine) ,
    productScale VARCHAR(25) NOT NULL,
    productVendor VARCHAR(25) NOT NULL,
    productDescription TEXT NOT NULL,
    quantityInStock INT NOT NULL,
    buyPrice DECIMAL NOT NULL,
    MSRP DECIMAL NOT NULL, --  manufacturer suggested retail price aka harga eceran aka harga jual
);
INSERT INTO products
    (productCode, productName, productLine, productScale, productVendor, productDescription,
    quantityInStock, buyPrice, MSRP)
VALUES
    ('AAS2314FS', 'Sedan A423 Gemerlap' , '1', 'Bagus', 'Tesca',
        'Sedang A423 merupakan mobil automobile dengan kecerdasan buatan', '20', '2000', '3000'),
    ('AZSDS4FS', 'PICKUP ADV23 Gemerlap' , '1', 'Sangat Bagus', 'BNSD',
        'PICKUP ADV23 merupakan mobil automobile dengan kecerdasan buatan', '20', '1000', '5000'),
    ('AMNLSDSD', 'Smartphone Model J' , '3', 'Sangat Bagus', 'BNSD',
        'Smartphone Model merupakan smartphone bestseller di dunia', '20', '1000000', '500022223'),
    ('SDLLMASA', 'Gujii' , '4', 'Bagus', 'BNSD',
        'Gujii merupakan tas dengan kecerdasan buatan', '20', '10000000', '500000000'),
    ('DSMASLS', 'BSDDDC' , '5', 'Sangat Bagus', 'BNSD',
        'BSDDDC merupakanrumah dengan keamanan kecerdasan buatan', '20', '10000000', '5000000000');
SELECT *
FROM products;
```



Results

	productCode	productName	productLine	productScale	productVendor	productDescription	quantityInStock	buyPrice	MSRP
1	AAS2314FS	Sedan A423 Gemerlap	1	Bagus	Tesca	Sedang A423 merupakan mobil …	20	2000	3000
2	AMNLSDSD	Smartphone Model J	3	Sangat Bagus	BNSD	Smartphone Model merupakan s…	20	1000000	500022223
3	AZSDS4FS	PICKUP ADV23 Gemerlap	1	Sangat Bagus	BNSD	PICKUP ADV23 merupakan mobil…	20	1000	5000
4	DSMASLS	BSDDDC	5	Sangat Bagus	BNSD	BSDDDC merupakanrumah dengan…	20	10000000	5000000000
5	SDLLMASA	Gujii	4	Bagus	BNSD	Gujii merupakan tas dengan k…	20	10000000	500000000

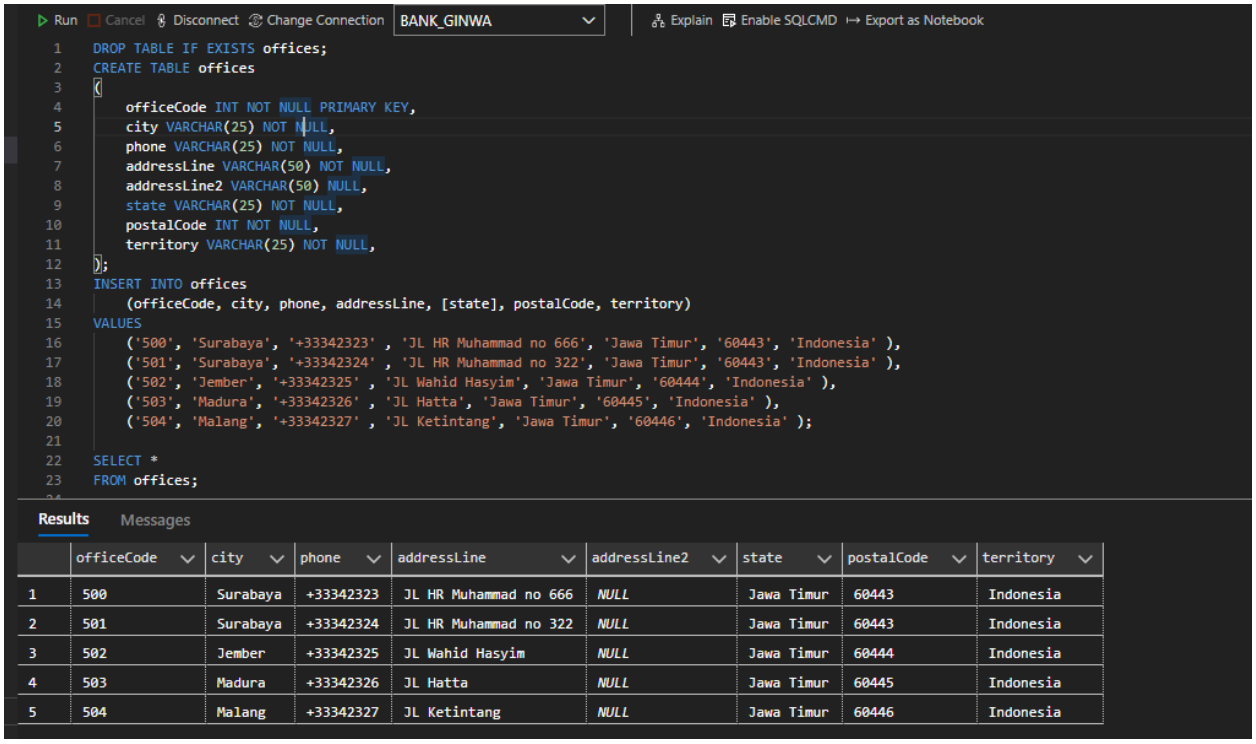
4. Membuat table office, lalu insert data

Query:

```
DROP TABLE IF EXISTS offices;
CREATE TABLE offices
(
    officeCode INT NOT NULL PRIMARY KEY,
    city VARCHAR(25) NOT NULL,
    phone VARCHAR(25) NOT NULL,
    addressLine VARCHAR(50) NOT NULL,
```

```
    addressLine2 VARCHAR(50) NULL,
    state VARCHAR(25) NOT NULL,
    postalCode INT NOT NULL,
    territory VARCHAR(25) NOT NULL,
);
INSERT INTO offices
    (officeCode, city, phone, addressLine, [state], postalCode, territory)
VALUES
    ('500', 'Surabaya', '+33342323' , 'JL HR Muhammad no 666', 'Jawa Timur', '60443', 'Indonesia' ),
    ('501', 'Surabaya', '+33342324' , 'JL HR Muhammad no 322', 'Jawa Timur', '60443', 'Indonesia' ),
    ('502', 'Jember', '+33342325' , 'JL Wahid Hasyim', 'Jawa Timur', '60444', 'Indonesia' ),
    ('503', 'Madura', '+33342326' , 'JL Hatta', 'Jawa Timur', '60445', 'Indonesia' ),
    ('504', 'Malang', '+33342327' , 'JL Ketintang', 'Jawa Timur', '60446', 'Indonesia' );

SELECT *
FROM offices;
```



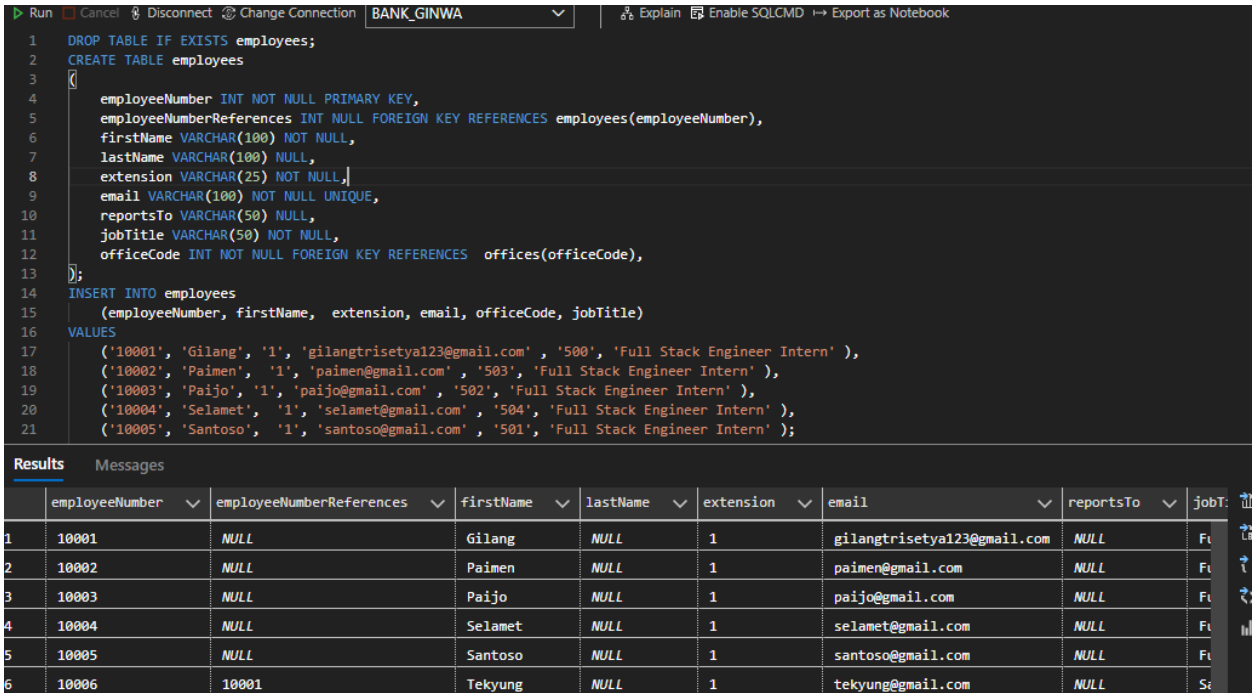
	officeCode	city	phone	addressLine	addressLine2	state	postalCode	territory
1	500	Surabaya	+33342323	JL HR Muhammad no 666	NULL	Jawa Timur	60443	Indonesia
2	501	Surabaya	+33342324	JL HR Muhammad no 322	NULL	Jawa Timur	60443	Indonesia
3	502	Jember	+33342325	JL Wahid Hasyim	NULL	Jawa Timur	60444	Indonesia
4	503	Madura	+33342326	JL Hatta	NULL	Jawa Timur	60445	Indonesia
5	504	Malang	+33342327	JL Ketintang	NULL	Jawa Timur	60446	Indonesia

5. Membuat table Employee, lalu insert data
   Query:

```
DROP TABLE IF EXISTS employees;
CREATE TABLE employees
(
    employeeNumber INT NOT NULL PRIMARY KEY,
    employeeNumberReferences INT NULL FOREIGN KEY REFERENCES employees(employeeNumber),
    firstName VARCHAR(100) NOT NULL,
    lastName VARCHAR(100) NULL,
    extension VARCHAR(25) NOT NULL,
    email VARCHAR(100) NOT NULL UNIQUE,
    reportsTo VARCHAR(50) NULL,
    jobTitle VARCHAR(50) NOT NULL,
    officeCode INT NOT NULL FOREIGN KEY REFERENCES  offices(officeCode),
);
INSERT INTO employees
    (employeeNumber, firstName,  extension, email, officeCode, jobTitle)
VALUES
    ('10001', 'Gilang', '1', 'gilangtrisetya123@gmail.com' , '500', 'Full Stack Engineer Intern' ),
```

```
    ('10002', 'Paimen',  '1', 'paimen@gmail.com' , '503', 'Full Stack Engineer Intern' ),
    ('10003', 'Paijo', '1', 'paijo@gmail.com' , '502', 'Sales' ),
    ('10004', 'Selamet',  '1', 'selamet@gmail.com' , '504', 'Sales Intern' ),
    ('10005', 'Santoso',  '1', 'santoso@gmail.com' , '501', 'Sales Intern' );

INSERT INTO employees
    (employeeNumber, employeeNumberReferences, firstName,  extension, email, officeCode, jobTitle)
VALUES
    ('10006', '10001' , 'Tekyung', '1', 'tekyung@gmail.com' , '501', 'Sales Intern' ),
    ('10007', '10001' , 'Jungkuk', '1', 'jungkuk@gmail.com' , '501', 'Hr Intern' ),
    ('10008', '10003' , 'John', '1', 'jogn@gmail.com' , '501', 'Hr Intern' );
SELECT *
FROM employees;
```



Run Cancel Disconnect Change Connection BANK_GINWA Explain Enable SQLCMD Export as Notebook

```
DROP TABLE IF EXISTS employees;
CREATE TABLE employees
(
    employeeNumber INT NOT NULL PRIMARY KEY,
    employeeNumberReferences INT NULL FOREIGN KEY REFERENCES employees(employeeNumber),
    firstName VARCHAR(100) NOT NULL,
    lastName VARCHAR(100) NULL,
    extension VARCHAR(25) NOT NULL,
    email VARCHAR(100) NOT NULL UNIQUE,
    reportsTo VARCHAR(50) NULL,
    jobTitle VARCHAR(50) NOT NULL,
    officeCode INT NOT NULL FOREIGN KEY REFERENCES  offices(officeCode),
);
INSERT INTO employees
    (employeeNumber, firstName,  extension, email, officeCode, jobTitle)
VALUES
    ('10001', 'Gilang', '1', 'gilangtrisetya123@gmail.com' , '500', 'Full Stack Engineer Intern' ),
    ('10002', 'Paimen',  '1', 'paimen@gmail.com' , '503', 'Full Stack Engineer Intern' ),
    ('10003', 'Paijo', '1', 'paijo@gmail.com' , '502', 'Full Stack Engineer Intern' ),
    ('10004', 'Selamet',  '1', 'selamet@gmail.com' , '504', 'Full Stack Engineer Intern' ),
    ('10005', 'Santoso',  '1', 'santoso@gmail.com' , '501', 'Full Stack Engineer Intern' );
```

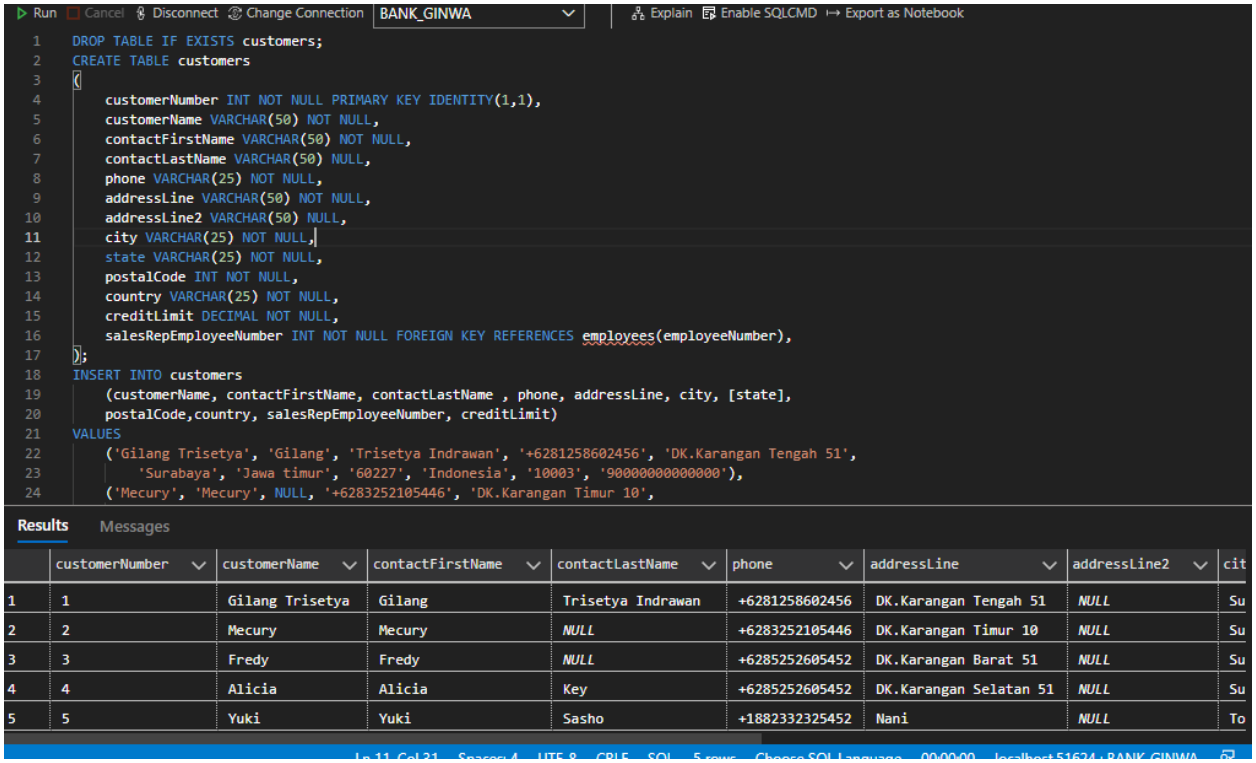
Results Messages

	employeeNumber	employeeNumberReferences	firstName	lastName	extension	email	reportsTo	jobT
1	10001	NULL	Gilang	NULL	1	gilangtrisetya123@gmail.com	NULL	Fu
2	10002	NULL	Paimen	NULL	1	paimen@gmail.com	NULL	Fu
3	10003	NULL	Paijo	NULL	1	paijo@gmail.com	NULL	Fu
4	10004	NULL	Selamet	NULL	1	selamet@gmail.com	NULL	Fu
5	10005	NULL	Santoso	NULL	1	santoso@gmail.com	NULL	Fu
6	10006	10001	Tekyung	NULL	1	tekyung@gmail.com	NULL	Sa

6. Membuat table customer, lalu insert data
   Query:

```
DROP TABLE IF EXISTS customers;
CREATE TABLE customers
(
    customerNumber INT NOT NULL PRIMARY KEY IDENTITY(1,1),
    customerName VARCHAR(50) NOT NULL,
    contactFirstName VARCHAR(50) NOT NULL,
    contactLastName VARCHAR(50) NULL,
    phone VARCHAR(25) NOT NULL,
    addressLine VARCHAR(50) NOT NULL,
    addressLine2 VARCHAR(50) NULL,
    city VARCHAR(25) NOT NULL,
    state VARCHAR(25) NOT NULL,
    postalCode INT NOT NULL,
    country VARCHAR(25) NOT NULL,
    creditLimit DECIMAL NOT NULL,
    salesRepEmployeeNumber INT NOT NULL FOREIGN KEY REFERENCES employees(employeeNumber),
);
INSERT INTO customers
    (customerName, contactFirstName, contactLastName , phone, addressLine, city, [state],
    postalCode,country, salesRepEmployeeNumber, creditLimit)
VALUES
```

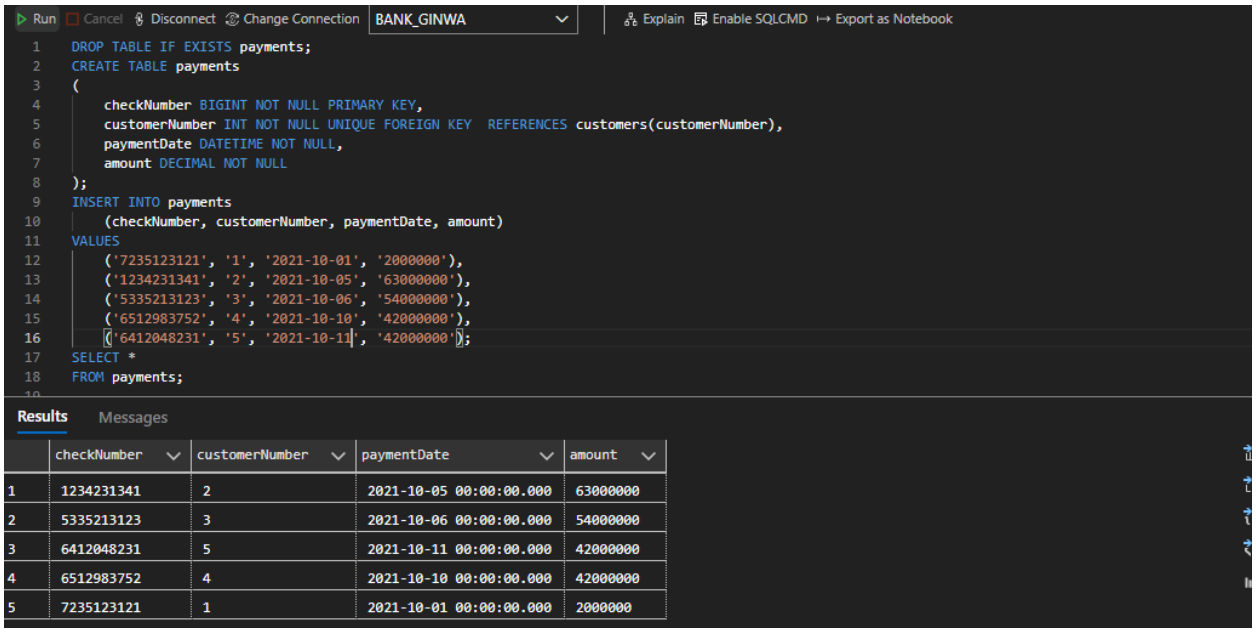
```
    ('Gilang Trisetya', 'Gilang', 'Trisetya Indrawan', '+6281258602456', 'DK.Karangan Tengah 51',
        'Surabaya', 'Jawa timur', '60227', 'Indonesia', '10003', '90000000000000'),
    ('Mecury', 'Mecury', NULL, '+6283252105446', 'DK.Karangan Timur 10',
        'Surabaya', 'Jawa timur', '60227', 'Indonesia', '10004', '140000000000'),
    ('Fredy', 'Fredy', NULL, '+6285252605452', 'DK.Karangan Barat 51',
        'Surabaya', 'Jawa timur', '60226', 'Indonesia', '10005', '3000000000'),
    ('Alicia', 'Alicia', 'Key', '+6285252605452', 'DK.Karangan Selatan 51',
        'Surabaya', 'Jawa timur', '60226', 'Indonesia', '10006', '3000000000000'),
    ('Yuki', 'Yuki', 'Sasho', '+1882332325452', 'Nani',
        'Tokyo', 'Tokyo', '12333', 'Japan', '10006', '650000000000000');
SELECT *
FROM customers;
```



	customerNumber	customerName	contactFirstName	contactLastName	phone	addressLine	addressLine2	cit
1	1	Gilang Trisetya	Gilang	Trisetya Indrawan	+6281258602456	DK.Karangan Tengah 51	NULL	Su
2	2	Mecury	Mecury	NULL	+6283252105446	DK.Karangan Timur 10	NULL	Su
3	3	Fredy	Fredy	NULL	+6285252605452	DK.Karangan Barat 51	NULL	Su
4	4	Alicia	Alicia	Key	+6285252605452	DK.Karangan Selatan 51	NULL	Su
5	5	Yuki	Yuki	Sasho	+1882332325452	Nani	NULL	To

7. Membuat table payment, lalu insert data
   Query:

```
DROP TABLE IF EXISTS payments;
CREATE TABLE payments
(
    checkNumber BIGINT NOT NULL PRIMARY KEY,
    customerNumber INT NOT NULL UNIQUE FOREIGN KEY  REFERENCES customers(customerNumber),
    paymentDate DATETIME NOT NULL,
    amount DECIMAL NOT NULL
);
INSERT INTO payments
    (checkNumber, customerNumber, paymentDate, amount)
VALUES
    ('7235123121', '1', '2021-10-01', '2000000'),
    ('1234231341', '2', '2021-10-05', '63000000'),
    ('5335213123', '3', '2021-10-06', '54000000'),
    ('6512983752', '4', '2021-10-10', '42000000'),
    ('6412048231', '5', '2021-10-11', '42000000');
SELECT *
FROM payments;
```

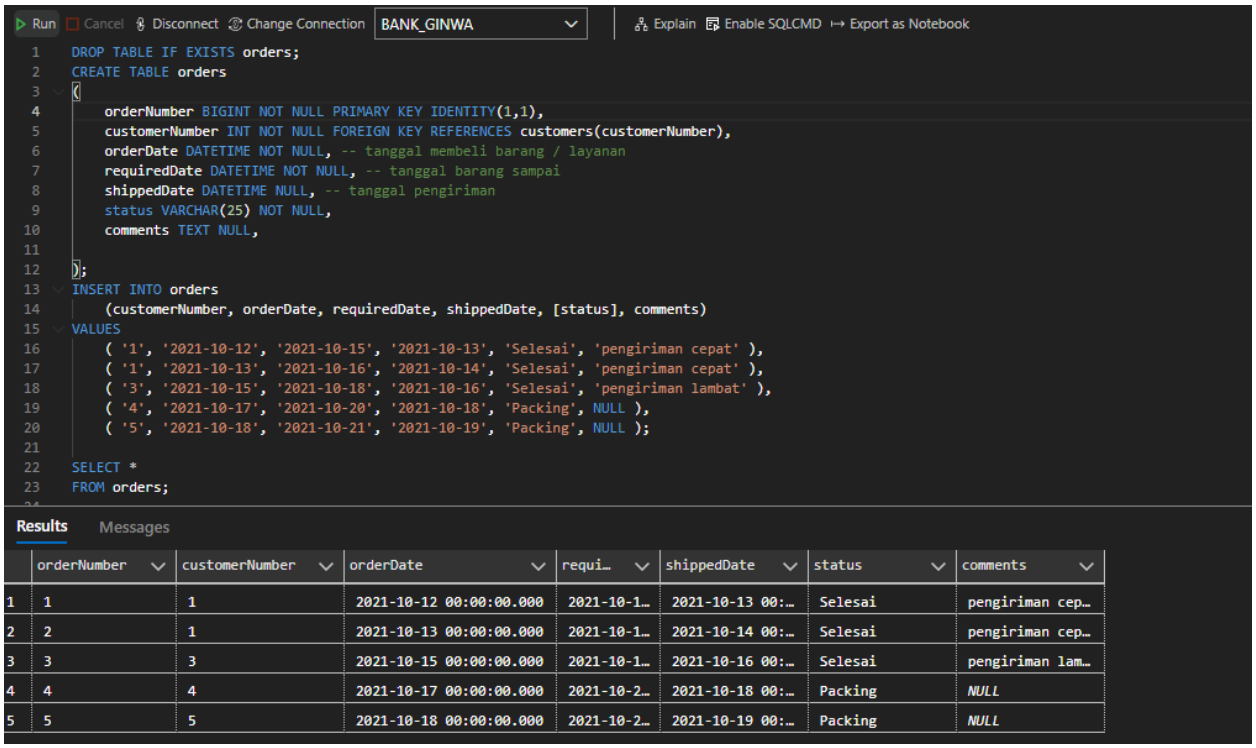


8. Membuat table orders, lalu insert data
   Query:

```
DROP TABLE IF EXISTS orders;
CREATE TABLE orders
(
    orderNumber BIGINT NOT NULL PRIMARY KEY IDENTITY(1,1),
    customerNumber INT NOT NULL FOREIGN KEY REFERENCES customers(customerNumber),
    orderDate DATETIME NOT NULL, -- tanggal membeli barang / layanan
    requiredDate DATETIME NOT NULL, -- tanggal barang sampai
    shippedDate DATETIME NULL, -- tanggal pengiriman
    status VARCHAR(25) NOT NULL,
    comments TEXT NULL,

);
INSERT INTO orders
    (customerNumber, orderDate, requiredDate, shippedDate, [status], comments)
VALUES
    ( '1', '2021-10-12', '2021-10-15', '2021-10-13', 'Selesai', 'pengiriman cepat' ),
    ( '1', '2021-10-13', '2021-10-16', '2021-10-14', 'Selesai', 'pengiriman cepat' ),
    ( '3', '2021-10-15', '2021-10-18', '2021-10-16', 'Selesai', 'pengiriman lambat' ),
    ( '4', '2021-10-17', '2021-10-20', '2021-10-18', 'Packing', NULL ),
    ( '5', '2021-10-18', '2021-10-21', '2021-10-19', 'Packing', NULL );

SELECT *
FROM orders;
```



9. Membuat table orderDetails, lalu insert data
   Query:

```
DROP TABLE IF EXISTS orderDetails;
CREATE TABLE orderDetails
(
    orderNumber BIGINT NOT NULL  FOREIGN KEY REFERENCES orders(orderNumber),
    productCode VARCHAR(50) NOT NULL FOREIGN KEY REFERENCES products(productCode) ,
    quantity INT NOT NULL,
    priceEach DECIMAL NOT NULL,
    orderLineNumber INT IDENTITY(1,1) NOT NULL
);
INSERT INTO orderDetails
    (orderNumber, productCode, quantity, priceEach)
VALUES
    ('1', 'AAS2314FS', '14' , '3000' ),
    ('2', 'AMNLSDSD', '3' , '500022223'),
    ('3', 'AAS2314FS', '13' , '3000'),
    ('4', 'SDLLMASA', '12' , '500000000'),
    ('5', 'SDLLMASA', '12' , '500000000');
SELECT *
FROM orderDetails;
```

Assignment02 > 9.createTableOrderDetails.sql

Run | Cancel | Disconnect | Change Connection | BANK_GINWA | Explain | Enable SQLCMD | Export as Notebook

```sql
DROP TABLE IF EXISTS orderDetails;
CREATE TABLE orderDetails
(
    orderNumber BIGINT NOT NULL  FOREIGN KEY REFERENCES orders(orderNumber),
    productCode VARCHAR(50) NOT NULL FOREIGN KEY REFERENCES products(productCode) ,
    quantity INT NOT NULL,
    priceEach DECIMAL NOT NULL,
    orderLineNumber INT IDENTITY(1,1) NOT NULL
);
INSERT INTO orderDetails
    (orderNumber, productCode, quantity, priceEach)
VALUES
    ('1', 'AAS2314FS', '14' , '3000' ),
    ('2', 'AMNLSDSD', '3' , '500022223'),
    ('3', 'AAS2314FS', '13' , '3000'),
    ('4', 'SDLLMASA', '12' , '500000000'),
    ('5', 'SDLLMASA', '12' , '500000000');
SELECT *
FROM orderDetails;
```

Results | Messages

	orderNumber	productCode	quantity	priceEach	orderLineNumber
1	1	AAS2314FS	14	3000	1
2	2	AMNLSDSD	3	500022223	2
3	3	AAS2314FS	13	3000	3
4	4	SDLLMASA	12	500000000	4
5	5	SDLLMASA	12	500000000	5

10. ERD