Nama Peserta : Riyan Adriansyah

Kode Peserta : FSDO001ONL008

Tugas : Assignment 2

Github : https://github.com/dakdeung/OCBC-

H8/tree/main/Assigment/RiyanAdriansyah_FSDO001ONL008_ASSIGNMENT2

**NOTE: Karena saya memasukan foreign key pada saat pembuatan table sehingga urutan pembuatan dan insert data tidak sesuai dengan nomor

**Urutan:

- 1. Productlines
- 2. Product
- 3. Offices
- 4. Employees
- 5. Customers
- 6. Payments
- 7. Orders
- 8. Orderdetails

Soal No.1:

Customers => stores data customer

Query Soal No.1:

```
CREATE TABLE customers(
    customerNumber INT PRIMARY KEY IDENTITY(1,1),
    customerName VARCHAR(50) NOT NULL,
    contactLastName VARCHAR(20),
    contactFirstName VARCHAR(20),
    addressLine1 VARCHAR(50) NOT NULL,
    addressLine2 VARCHAR(50),
    city VARCHAR(20) NOT NULL,
    state VARCHAR(20) NOT NULL,
    postalCode VARCHAR(8) NOT NULL,
    country VARCHAR(20) NOT NULL,
    salesRepEmployeeNumber INT REFERENCES employees(employeeNumber) NOT NULL,
    creditLimit DECIMAL(20,2)
);
```

INSERT INTO customers (customerName, contactLastName, contactFirstName, addressLine1, addressLine2, city, state, postalCode, country, salesRepEmployeeNumber, creditLimit) **VALUES**

```
('Riyan', NULL, NULL, 'Jl. Sukarasa', NULL, 'Bandung', 'Indonesia', '40192', 'Indonesia', 5, NULL),
('Felia', NULL, NULL, 'Jl. Sukapura', NULL, 'Bandung', 'Indonesia', '40261', 'Indonesia', 2, NULL),
('Reva', NULL, NULL, 'Jl. Sukasenang', NULL, 'Cimahi', 'Indonesia', '40153', 'Indonesia', 3, NULL),
('Didit', NULL, NULL, 'Jl. Sukarajin', NULL, 'Bogor', 'Indonesia', '40113', 'Indonesia', 1, NULL),
('Ujang', NULL, NULL, 'Jl. Dago', NULL, 'Garut', 'Indonesia', '40151', 'Indonesia', 1, NULL);
```

SELECT * FROM customers;

Screenshoot Soal No.1:

	customerNumber	customerName	contactLastName	contactFirstName	addressLine1	addressLine2	city	state	postalCode	country	salesRepEmployeeNumber	creditLimit	
٠	1	Riyan	(Null)	(Null)	Jl. Sukarasa	(Null)	Bandung	Indonesia	40192	Indonesia	5	(1)	Vull)
	2	Felia	(Null)	(Null)	Jl. Sukapura	(Null)	Bandung	Indonesia	40261	Indonesia	2	(1)	Vull)
	3	Reva	(Null)	(Null)	Jl. Sukasenang	(Null)	Cimahi	Indonesia	40153	Indonesia	3	(1)	Vull)
	4	Didit	(Null)	(Null)	Jl. Sukarajin	(Null)	Bogor	Indonesia	40113	Indonesia	1	(1)	Vull)
	5	Ujang	(Null)	(Null)	Jl. Dago	(Null)	Garut	Indonesia	40151	Indonesia	1	(1)	Vull)

Soal No.2:

Products => stores daftar/list model product (dalam hal ini bisa mobil/motor dll)

Query Soal No.2:

```
CREATE TABLE products(
      productCode INT PRIMARY KEY IDENTITY(1,1),
      productName VARCHAR(50) NOT NULL,
      productLine INT REFERENCES productlines(productline) NOT NULL,
      productScale INT NOT NULL,
      productVendor VARCHAR(50) NOT NULL,
      productDescription VARCHAR(100) NOT NULL,
      quantityInStock INT NOT NULL,
      buyPrice DECIMAL(20,2) NOT NULL,
      MSRP DECIMAL(20,2) NOT NULL
)
```

INSERT INTO products (productName, productLine, productScale ,productVendor, productDescription, quantityinStock, buyPrice, MSRP)

VALUES

```
('X-Ride', 1, 1, 'Yamaha', 'Sepeda motor Yamaha X-Ride', 10, 18000000, 17500000),
('Mio', 1, 1, 'Yamaha', 'Sepeda motor Yamaha Mio', 30, 16000000, 15000000),
('Nmax', 1, 1, 'Yamaha', 'Sepeda motor Yamaha Nmax', 15, 220000000, 215000000),
('Scoopy', 1, 1,'Honda', 'Sepeda motor Honda Mio', 25, 150000000, 140000000),
('KLX', 1, 1, 'Kawasaki', 'Sepeda motor Kawasaki KLX', 8, 28000000, 27000000)
```

SELECT * FROM products;

Screenshoot Soal No.2:

	productCode	productName	productLine	productScale	productVendor	productDescription	quantityInStock	buyPrice	MSRP
Þ	1	X-Ride	1	1	Yamaha	Sepeda motor Yamaha	10	18000000,00	17500000,00
	2	Mio	1	1	Yamaha	Sepeda motor Yamaha	30	16000000,00	15000000,00
	3	Nmax	1	1	Yamaha	Sepeda motor Yamaha	15	220000000,00	215000000,00
	4	Scoopy	1	1	Honda	Sepeda motor Honda	25	150000000,00	140000000,00
	5	KLX	1	1	Kawasaki	Sepeda motor Kawasa	8	28000000,00	27000000,00

Soal No.3:

Productlines => stores daftar/list kategori product

Query Soal No.3:

```
CREATE TABLE productlines(
    productLine int PRIMARY KEY IDENTITY(1,1),
    textDescription VARCHAR(50),
    htmlDescription VARCHAR(50),
    image VARCHAR(50)
)

INSERT INTO productlines (textDescription, htmlDescription, image)
VALUES

('Motor', 'this is motor.','https://www.OCBCBANK.com/Motor'),
 ('Mobil', 'this is mobil.','https://www.OCBCBANK.com/Mobil'),
 ('Handphone', 'this is handphone.','https://www.OCBCBANK.com/Laptop'),
 ('Laptop', 'this is laptop.','https://www.OCBCBANK.com/Laptop'),
 ('Komputer', 'this is komputer.','https://www.OCBCBANK.com/Komputer')
```

SELECT * FROM productlines;

Screenshoot Soal No.3:

	productLine	textDescription	htmlDescription	image
Þ	1	Motor	this is motor.	https://www.OCBCBANK.com/Motor
	2	Mobil	this is mobil.	https://www.OCBCBANK.com/Mobil
	3	Handphone	this is handphone.	https://www.OCBCBANK.com/Handphone
	4	Laptop	this is laptop.	https://www.OCBCBANK.com/Laptop
	5	Komputer	this is komputer.	https://www.OCBCBANK.com/Komputer

Soal No.4:

Orders => store Order Sales oleh customer

Query Soal No.4:

```
CREATE TABLE orders(
       orderNumber INT PRIMARY KEY IDENTITY(1,1),
       orderDate DATE NOT NULL,
       requiredDate DATE NOT NULL.
       shippedDate DATE NOT NULL,
       status VARCHAR(20),
       comments VARCHAR(50),
       customerNumber INT REFERENCES customers(customerNumber) NOT NULL
)
INSERT INTO orders (orderDate, requiredDate, shippedDate, status, comments, customerNumber)
VALUES
       ('08-30-2021','09-1-2021', '09-1-2021', 'Proses', NULL, 2),
       ('09-2-2021', '09-3-2021', '09-5-2021', 'Proses', NULL, 3),
       ('08-30-2021','09-1-2021', '09-2-2021', 'On Delivery', 'Barang Mudah Pecah', 1),
       ('08-1-2021', '09-2-2021', '09-3-2021', 'Transit', NULL, 5),
       ('09-9-2021','09-12-2021', '09-12-2021', 'Proses', NULL, 4);
```

SELECT * FROM orders;

Screenshoot Soal No.4:

orderNumber	orderDate	requiredDate	shippedDate	status	comments	customerNumber
2	2021-08-30	2021-09-01	2021-09-01	Proses	(Null)	2
3	2021-09-02	2021-09-03	2021-09-05	Proses	(Null)	3
4	2021-08-30	2021-09-01	2021-09-02	On Delivery	Barang Mudah Pecah	1
5	2021-08-01	2021-09-02	2021-09-03	Transit	(Null)	5
6	2021-09-09	2021-09-12	2021-09-12	Proses	(Null)	4

Soal No.5:

OrderDetails => store Item Order sales dalam setiap order sales

Query Soal No.5:

```
(3, 1, 1, 18000000, 2),
(4, 3, 1, 22000000, 3),
(5, 5, 1, 28000000, 4),
(6, 1, 1, 18000000, 5);
```

SELECT * FROM orderdetails;

Screenshoot Soal No.5:

orderNumber	productCo	de quant	ityOrdered	priceEach	orderLineNumber	
	2	1	1	18000000		1
	3	1	1	18000000		2
	4	3	1	22000000		3
	5	5	1	28000000		4
	6	1	1	18000000		5

Soal No.6:

Payments => store Pembayaran oleh customer sesuai dengan akun pembayaran

Query Soal No.6:

```
CREATE TABLE payments(
    customerNumber INT REFERENCES customers(customerNumber) NOT NULL,
    checkNumber INT PRIMARY KEY IDENTITY(1,1),
    paymentDate DATE NOT NULL,
    amount DECIMAL(20,2) NOT NULL
);
```

INSERT INTO payments (customerNumber, paymentDate, amount) VALUES

```
(1, '09-2-2021',18000000),
(2, '09-10-2021',18000000),
(3, '09-8-2021',12000000),
(4, '09-3-2021',28000000),
(5, '09-5-2021',10000000);
```

SELECT * FROM payments;

Screenshoot Soal No.6:

	customerNumber	checkNumber	paymentDate	amount
١	1	1	2021-09-02	18000000,00
	2	2	2021-09-10	18000000,00
	3	3	2021-09-08	12000000,00
	4	4	2021-09-03	28000000,00
	5	5	2021-09-05	10000000,00

Soal No.7:

Employee => store informasi karyawan dalam sebuah organisasi struktur

Query Soal No.7:

```
CREATE TABLE employees(
        employeeNumber INT PRIMARY KEY IDENTITY(1,1),
        lastName VARCHAR(20),
        firstName VARCHAR(20) NOT NULL,
        extension VARCHAR(20),
        email VARCHAR(30) NOT NULL,
        officeCode INT REFERENCES offices(officeCode) NOT NULL,
        reportsTo VARCHAR(20) NOT NULL,
        jobTitle VARCHAR(20) NOT NULL
);
```

INSERT INTO employees (lastName, firstName, extension, email, officeCode, reportsTo, jobTitle) VALUES

```
('Permana', 'Angga', NULL, 'angga@ocbcbank.com', 1, 'Indra', 'Sales'), ('Devianti', 'Ayu', NULL, 'ayu@ocbcbank.com', 1, 'Indra', 'Accounting'), (NULL, 'Herawati', NULL, 'herawati@ocbcbank.com', 1, 'Indra', 'IT'), ('Ratnasari', 'Desi', NULL, 'desi@ocbcbank.com', 1, 'Indra', 'Sales'), ('Simatupang', 'Derry', NULL, 'derry@ocbcbank.com', 1, 'Indra', 'Officer');
```

SELECT * FROM employees;

Screenshoot Soal No.7:

employeeNumber		lastName	firstName	extension	email	officeCode	reportsTo	jobTitle
	1	Permana	Angga	(Null)	angga@ocbcbank.com	1	Indra	Sales
	2	Devianti	Ayu	(Null)	ayu@ocbcbank.com	1	Indra	Accounting
	3	(Null)	Herawati	(Null)	herawati@ocbcbank.co	1	Indra	IT
	4	Ratnasari	Desi	(Null)	desi@ocbcbank.com	1	Indra	Sales
	5	Simatupang	Derry	(Null)	derry@ocbcbank.com	1	Indra	Officer

Soal No.8:

Offices => store data sales office

Query Soal No.8:

```
CREATE TABLE offices(
officeCode INT PRIMARY KEY IDENTITY(1,1),
city VARCHAR(20) NOT NULL,
phone VARCHAR(20) NOT NULL,
addressLine1 VARCHAR(50) NOT NULL,
addressLine2 VARCHAR(50),
state VARCHAR(20) NOT NULL,
```

```
country VARCHAR(20) NOT NULL,
postalCode VARCHAR(20) NOT NULL,
teritory VARCHAR(20)
```

);

INSERT INTO offices (city, phone, addressLine1, addressLine2, state, country, postalCode, teritory) VALUES

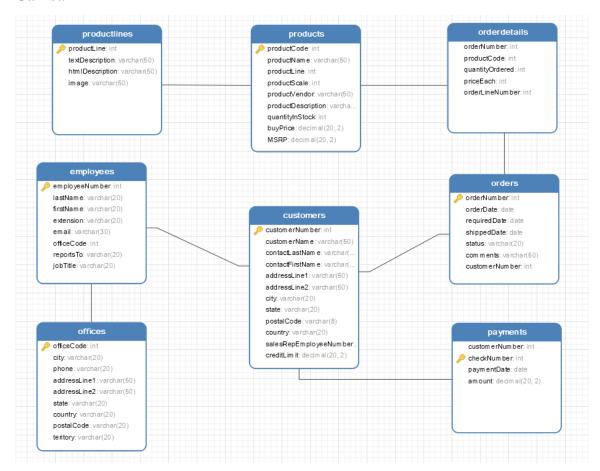
('Bandung', '02287238', 'Jl Cihapit', NULL, 'Indonesia', 'Indonesia', '40121', 'Bandung'), ('Jakarta', '02287124', 'Jl Lebak Bulus', NULL, 'Indonesia', 'Indonesia', '40152', 'Jakarta'), ('Surabaya', '02287512', 'Jl Gatsu', NULL, 'Indonesia', 'Indonesia', '40235', 'Surabaya'), ('Semarang', '02287122', 'Jl Kosambi', NULL, 'Indonesia', 'Indonesia', '40235', 'Semarang'), ('Bekasi', '02287252', 'Jl Cicadas', NULL, 'Indonesia', 'Indonesia', '40235', 'Bekasi');

SELECT * FROM offices;

Screenshoot Soal No.8:

officeCo	ode	city	phone	addressLine1	addressLine2	state	country	postalCode	teritory
•	1	Bandung	02287238	JI Cihapit	(Null)	Indonesia	Indonesia	40121	Bandung
	2	Jakarta	02287124	JI Lebak Bulus	(Null)	Indonesia	Indonesia	40152	Jakarta
	3	Surabaya	02287512	JI Gatsu	(Null)	Indonesia	Indonesia	40235	Surabaya
	4	Semarang	02287122	JI Kosambi	(Null)	Indonesia	Indonesia	40235	Semarang
	5	Bekasi	02287252	JI Cicadas	(Null)	Indonesia	Indonesia	40235	Bekasi

Gambar ERD



Tambahan Query

	customerNumber	customerName	orderNumber	productName	price	quantityOrdered	pembayaran	paymentDate	status	sales
Þ		1 Riyan	4	Nmax	220000000,00	1	18000000,00	2021-09-02	On Delivery	Derry Simatupang
		2 Felia	2	X-Ride	18000000,00	1	18000000,00	2021-09-10	Proses	Ayu Devianti
		3 Reva	3	X-Ride	18000000,00	1	12000000,00	2021-09-08	Proses	(Null)
		4 Didit	6	X-Ride	18000000,00	1	28000000,00	2021-09-03	Proses	Angga Permana
		5 Ujang	5	KLX	28000000,00	1	10000000,00	2021-09-05	Transit	Angga Permana

Query:

SELECT c.customerNumber, c.customerName, o.orderNumber, p.productName, p.buyPrice AS price ,od.quantityOrdered, py.amount

AS pembayaran , py.paymentDate, o.status, (e.firstName +' '+ e.lastName) AS sales FROM customers c

JOIN orders o ON c.customerNumber = o.customerNumber

JOIN orderdetails od ON o.orderNumber = od.orderNumber

JOIN products p ON od.productCode = p.productCode

JOIN payments py ON py.customerNumber = c.customerNumber

JOIN employees e ON c.salesRepEmployeeNumber = e.employeeNumber;