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Tugas : Assigment 2

Github : https://github.com/clearyn/OCBC-H8/tree/main/SESI6/Assign2

Screenshoot Soal No.1:

123 customer Nu	customerName 📆	econtactlas	contactifi	addressLine1 📆	address lin	ADC city T:	noc state ₹‡	postalCode 📆	and country	123 salesRepEnNp	123 creditLimit 📆
1	Dhanny Rachmat			JI Meikarta 99		Bandung	Indonesia	40177	Indonesia	1	[NULL]
2	Ferdinand Lanvino	[NULL]	[NULL]	JI Sejahtera 29	/20c	Jakarta	Indonesia	40235	Indonesia	2	[NULL]
3	Andreas Adiputra	[NULL]	[NULL]	JI Banda 01C	[NULL]	Surabaya	Indonesia	40123	Indonesia	3	[NULL]
4	Diki Agustina	[NULL]	[NULL]	JI Subang 92	/60a	Tangerang	Indonesia	40152	Indonesia	4	[NULL]
5	Ajeng Sri Wulan	[NULL]	[NULL]	JI Jakarta 4	[NULL]	Bandung	Indonesia	40179	Indonesia	4	[NULL]

No. 1 Soal:

);

Customers => stores data customer

Jawaban Query Soal No. 1:

```
CREATE TABLE customers(
```

customerNumber INT identity(1,1) primary key, 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 NOT NULL, creditLimit DECIMAL(19,2)

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

VALUES ('Dhanny Rachmat', **NULL**, 'JI Meikarta 99', **NULL**, 'Bandung', 'Indonesia', '40177', 'Indonesia', 1, **NULL**),

('Ferdinand Lanvino', NULL, NULL, 'Jl Sejahtera 29', '/20c', 'Jakarta', 'Indonesia', '40235', 'Indonesia', 2, NULL), ('Andreas Adiputra', NULL, NULL, 'Jl Banda 01C', NULL, 'Surabaya', 'Indonesia', '40123', 'Indonesia', 3, NULL), ('Diki Agustina', NULL, NULL, 'Jl Subang 92', '/60a', 'Tangerang', 'Indonesia', '40152', 'Indonesia', 4, NULL), ('Ajeng Sri Wulan', NULL, NULL, 'Jl Jakarta 4', NULL, 'Bandung', 'Indonesia', '40179', 'Indonesia', 4, NULL); SELECT * FROM customers;

Screenshoot Soal No.2:

<u> </u>	¹²³ prod u∉ t	produčtí	¹²³ prodប៉ ៌ t	productVendor:	productDescription T:	123 quantity n	123 buyPrice 🏋	123 MSRP \(\frac{1}{4}\)
1	1	VARIO	1	Honda	Sepeda motor Honda VARIO	50	15,000,000	14,500,000
2	2	NMAX	1	Yamaha	Sepeda motor Yamaha NMAX	50	22,000,000	20,000,000
3	3	RUSH	2	Toyota	Mobil Toyota RUSH	20	200,000,000	190,000,000
4	4	XENIA	2	Daihatsu	Mobil Daihatsu XENIA	20	180,000,000	170,000,000
5	5	Ideapad	3	Lenovo	Laptop Lenovo Ideapad	15	8,000,000	7,000,000
6	6	S28	4	Samsung	Smartphone Samsung S28	30	11,000,000	10,000,000
7	7	IPad	5	Apple	Tablet IPad	30	9,000,000	8,000,000

No. 2 Soal:

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

```
Jawaban Query Soal No. 1:
CREATE TABLE products(
        productCode INT identity(1,1) primary key,
        productName VARCHAR(30) NOT NULL,
        productLine INT NOT NULL,
        productVendor VARCHAR(30) NOT NULL,
        productDescription VARCHAR(50) NOT NULL,
        quantityinStock INT DEFAULT 1,
        buyPrice DECIMAL(19,2) NOT NULL,
        MSRP DECIMAL(19,2) NOT NULL
);
INSERT INTO products (productName, productLine, productVendor, productDescription, quantityinStock, buyPrice,
MSRP)
VALUES ('VARIO', 1, 'Honda', 'Sepeda motor Honda VARIO', 50, 15000000, 14500000),
('NMAX', 1, 'Yamaha', 'Sepeda motor Yamaha NMAX', 50, 22000000, 20000000),
('RUSH', 2, 'Toyota', 'Mobil Toyota RUSH', 20, 200000000, 190000000),
('XENIA', 2, 'Daihatsu', 'Mobil Daihatsu XENIA', 20, 180000000, 170000000),
('Ideapad', 3, 'Lenovo', 'Laptop Lenovo Ideapad', 15, 8000000, 7000000),
('S28', 4, 'Samsung', 'Smartphone Samsung S28', 30, 11000000, 10000000),
('IPad', 5, 'Apple', 'Tablet IPad', 30, 9000000, 8000000);
SELECT * FROM products;
```

Screenshoot Soal No.3:

<u> </u>	¹²³ productLine 📆	*** textDescription T :	htmlDescription T:	^{ABC} image	T:
1	1	Motor	Ullamcorper velit lectus mus adipiscing.	☑ https://www.CBANK.id/Motor	
2	2	Mobil	Mobil velit lectus mus adipiscing.	☑ https://www.CBANK.id/Mobil	
3	3	Laptop	Laptop velit lectus mus adipiscing.	☑ https://www.CBANK.id/Laptop	
4	4	Smartphone	Smartphone velit lectus mus adipiscing.	☑ https://www.CBANK.id/Smartpho	ne
5	5	Tablet	Tablet velit lectus mus adipiscing.	☑ https://www.CBANK.id/Tablet	

No. 3 Soal:

Productlines => stores daftar/list kategori product

Jawaban Query Soal No. 3:

```
CREATE TABLE productlines(
```

productLine INT primary key NOT NULL,

textDescription VARCHAR(50) NOT NULL,

htmlDescription VARCHAR(200),

image VARCHAR(50)

);

INSERT INTO productlines (productLine, textDescription, htmlDescription, **image**)

VALUES (1, 'Motor', 'Ullamcorper velit lectus mus adipiscing.','https://www.CBANK.id/Motor'),

- (2, 'Mobil', 'Mobil velit lectus mus adipiscing.','https://www.CBANK.id/Mobil'),
- (3, 'Laptop', 'Laptop velit lectus mus adipiscing.','https://www.CBANK.id/Laptop'),
- (4, 'Smartphone', 'Smartphone velit lectus mus adipiscing.','https://www.CBANK.id/Smartphone'),
- (5, 'Tablet', 'Tablet velit lectus mus adipiscing.','https://www.CBANK.id/Tablet');

SELECT * **FROM** productlines;

Screenshoot Soal No.4:

<u></u>	123 order Vu	orderDate 👣	❷ requiredDate	② shippedDate ▼ ‡	status T‡	and comments	¹²³ customerNumber	T:
1	1	2021-10-13	2020-11-01	2020-11-02	Packing	Dont late		1
2	2	2021-10-13	2020-11-23	2020-11-25	Shipping	Dont late		2
3	3	2021-10-13	2020-11-05	2020-11-12	Courier	For my birthday		3
4	4	2021-10-13	2020-11-03	2020-11-08	Waiting Vendor	Fragile		4
5	5	2021-10-13	2020-11-08	2020-11-10	Lost	Dont late		5

No. 4 Soal:

Orders => store Order Sales oleh customer

Jawaban Query Soal No. 4:

```
CREATE TABLE orders(
        orderNumber INT identity(1,1) primary key,
        orderDate DATE DEFAULT GETDATE(),
        requiredDate DATE NOT NULL,
        shippedDate DATE NOT NULL,
        status VARCHAR(20),
        comments VARCHAR(50),
        customerNumber INT NOT NULL
);
INSERT INTO orders (requiredDate, shippedDate, status, comments, customerNumber)
VALUES ('2020-11-01', '2020-11-02', 'Packing', 'Dont late', 1),
('2020-11-23', '2020-11-25', 'Shipping', 'Dont late', 2),
('2020-11-05', '2020-11-12', 'Courier', 'For my birthday', 3),
('2020-11-03', '2020-11-08', 'Waiting Vendor', 'Fragile', 4),
('2020-11-08', '2020-11-10', 'Lost', 'Dont late', 5);
SELECT * FROM orders;
```

Screenshoot Soal No.5:

<u> </u>	¹²³ orderNับทั้	123 productCbd	123 quantityOlde	¹²³ priceEach ♥‡	¹²³ orderLine Ñû
1	1	1	1	14,600,000	1
2	2	7	4	8,500,000	2
3	3	6	1	11,000,000	3
4	4	6	2	11,000,000	4
5	5	3	1	190,000,000	5

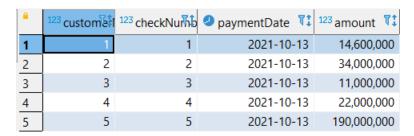
No. 5 Soal:

OrderDetails => store Item Order sales dalam setiap order sales

Jawaban Query Soal No. 5:

```
CREATE TABLE orderdetails(
    orderNumber INT NOT NULL,
    productCode INT NOT NULL,
    quantityOrdered INT NOT NULL,
    priceEach DECIMAL(19,2) NOT NULL,
    orderLineNumber INT NOT NULL
);
INSERT INTO orderdetails (orderNumber, productCode, quantityOrdered, priceEach, orderLineNumber)
VALUES (1, 1, 1, 14600000, 1),
(2, 7, 4, 8500000, 2),
(3, 6, 1, 11000000, 3),
(4, 6, 2, 11000000, 4),
(5, 3, 1, 190000000, 5);
SELECT * FROM orderdetails;
```

Screenshoot Soal No.6:



No. 6 Soal:

Payments => store Pembayaran oleh customer sesuai dengan akun pembayaran

Jawaban Query Soal No. 6:

```
CREATE TABLE payments(
    customerNumber INT NOT NULL,
    checkNumber INT identity(1,1) primary key,
    paymentDate DATE DEFAULT GETDATE(),
    amount DECIMAL(19,2) NOT NULL
);
INSERT INTO payments (customerNumber, amount)
VALUES (1, 14600000),
(2, 34000000),
(3, 11000000),
(4, 22000000),
(5, 190000000);
SELECT * FROM payments;
```

Screenshoot Soal No.7:

<u>-</u>	¹²³ employeeÑû	^{nac} lastName ₹ ‡	nec firstName ₹‡	extensi	email T:	¹²³ officed G	^{ABC} reportsTo ₹ ‡	asc jobTitle 🏗
1	1	Sanjaya	Indra	[NULL]	indra@bank.com	1	Budiman	SalesRep
2	2	Wijaya	Rahmat	[NULL]	rahmat@bank.com	1	Budiman	SalesRep
3	3	Sanjaya	Dani	[NULL]	dani@bank.com	1	Budiman	SalesRep
4	4	Susanti	Susi	[NULL]	susi@bank.com	1	Budiman	SalesRep
5	5	[NULL]	Willyanti	[NULL]	willyanti@bank.com	1	Wicaksono	Officer

No. 7 Soal:

Employee => store informasi karyawan dalam sebuah organisasi struktur

Jawaban Query Soal No. 7:

```
CREATE TABLE employees(
        employeeNumber INT identity(1,1) primary key,
        lastName VARCHAR(20),
        firstName VARCHAR(20) NOT NULL,
        extension VARCHAR(20),
        email VARCHAR(20) NOT NULL,
        officeCode INT NOT NULL,
        reportsTo VARCHAR(20) NOT NULL,
        jobTitle VARCHAR(20) NOT NULL
);
INSERT INTO employees (lastName, firstName, extension, email, officeCode, reportsTo, jobTitle)
VALUES ('Sanjaya', 'Indra', NULL, 'indra@bank.com', 1, 'Budiman', 'SalesRep'),
('Wijaya', 'Rahmat', NULL, 'rahmat@bank.com', 1, 'Budiman', 'SalesRep'),
('Sanjaya', 'Dani', NULL, 'dani@bank.com', 1, 'Budiman', 'SalesRep'),
('Susanti', 'Susi', NULL, 'susi@bank.com', 1, 'Budiman', 'SalesRep'),
( NULL, 'Willyanti', NULL, 'willyanti@bank.com', 1, 'Wicaksono', 'Officer');
SELECT * FROM employees;
```

Screenshoot Soal No.8:

SELECT * ERUNT offices; | Les Lenter a SQL expression to filter results (use Ctrl+Space)

	<u> </u>	¹²³ officeĈoc	^{ABC} city ₹ ‡	phone T	addressLine1	T‡ addi	state 🟗	esc country ₹‡	postalic	asc teritory	‡
	1	1	Bandung	08911111	JI Jawa 82	[NULL]	Indonesia	Indonesia	40122	Bandung	
Π.	2	2	Bandung	08911112	JI Banda 22	/90c	Indonesia	Indonesia	40122	[NULL]	
	3	3	Bandung	08911113	JI Subang 18	[NULL]	Indonesia	Indonesia	40125	Bandung	

No. 8 Soal:

Offices => store data sales office

Jawaban Query Soal No. 8:

```
CREATE TABLE offices(
        officeCode INT identity(1,1) primary key,
        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', '08911111', 'JI Jawa 82', NULL, 'Indonesia', 'Indonesia', '40122', 'Bandung'),
('Bandung', '08911112', 'JI Banda 22', '/90c', 'Indonesia', 'Indonesia', '40122', NULL),
('Bandung', '08911113', 'Jl Subang 18', NULL, 'Indonesia', 'Indonesia', '40125', 'Bandung');
SELECT * FROM offices;
```

Improvement Relation Query

	¹⅔ customerNumber 🏋	and customerName	¹ã orderNumber 📆	123 quantityOrdered	T A	productName T	123 productLine	T:	^{₽8} SalesRep ₹ ‡
1	1	Dhanny Rachmat	1	1	1 V	/ARIO		1	Indra Sanjaya
2	2	Ferdinand Lanvino	2	4	4 IF	Pad		5	Rahmat Wijaya
3	3	Andreas Adiputra	3	1	1 S	528		4	Dani Sanjaya
4	4	Diki Agustina	4	2	2 S	528		4	Susi Susanti
5	5	Ajeng Sri Wulan	5	1	1 R	RUSH		2	Susi Susanti

Code:

SELECT ctm.customerNumber, ctm.customerName, od.orderNumber, ods.quantityOrdered, pro.productName, pro.productLine, (emp.firstName +' '+ emp.lastName) **as** SalesRep

FROM customers ctm

JOIN orders od **ON** ctm.customerNumber = od.customerNumber

JOIN orderDetails ods **ON** od.orderNumber = ods.orderNumber

JOIN products pro **ON** ods.productCode = pro.productCode

JOIN employees emp **ON** ctm.salesRepEmployeeNumber = emp.employeeNumber;