Muhammad Roychan Meliaz
FSDO001ONL021

OCBC – Hacktiv8 Bootcamp
Assignment_2

```sql
CREATE DATABASE db_bank;

-- TABEL 1

USE db_bank;

CREATE TABLE tb_customers(
        customerNumber INT PRIMARY KEY IDENTITY(1,1),
        customerName VARCHAR(45) NOT NULL,
        contactLastName VARCHAR(45) NOT NULL,
        contactFirstName VARCHAR(45) NOT NULL,
        phone VARCHAR(18) NOT NULL,
        addressLine1 VARCHAR(125) NOT NULL,
        addressLine2 VARCHAR(125) NOT NULL,
        city VARCHAR(40) NOT NULL,
        state VARCHAR(40) NOT NULL,
        postalCode VARCHAR(6) NOT NULL,
        country VARCHAR(40) NOT NULL,
        salesRepEmployeeNumber INT NOT NULL,
        creditLimit INT NOT NULL
);


INSERT INTO tb_customers(customerName,contactLastName, contactFirstName,phone,addressLine1,
addressLine2,city,state,postalCode,country,salesRepEmployeeNumber,creditLimit)
VALUES
    ('Roy','Meliaz','Roychan','082391906848','jl. muka kuning no 8','jl. keputih
no3','Batam','Kepulauan Riau','29438','Indonesia',1,20000000),
    ('Fadhil','Ihsan','Fadhil','08123456789','jl. ali haji no 21','-','Semarang','Jawa
Tengah','11223','Indonesia',1,15000000),
    ('Dzaky','Mulyanto','Dzaky','08080808088','jl. keputih no 3','jl. kasuari no
22','Surabaya','Jawa Timur','60111','Indonesia',2,30000000),
    ('Fuad','Zakiy','Fuad','082659377594','jl. rajawali no 19','-','Bandung','Jawa
Barat','74937','Indonesia',2,40000000),
    ('Faisal','Rizal','Faisal','0834775t2333','jl. mulyosari no 1','jl. keputih no
11','Surabaya','Jawa Timur','60111','Indonesia',3,30000000);


SELECT * FROM tb_customers;
```
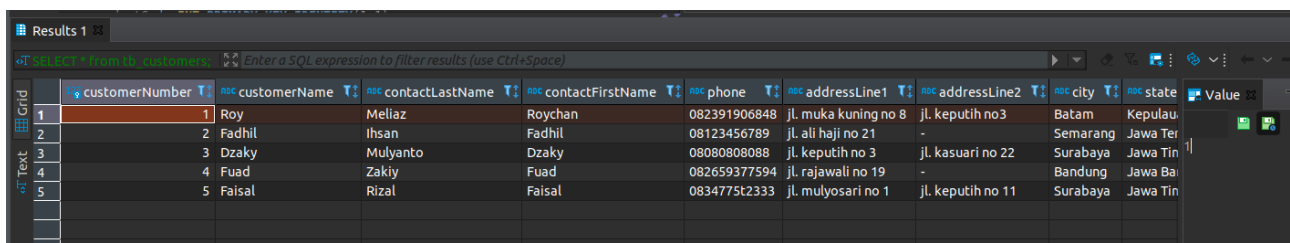
```sql
-- TABEL 2
CREATE TABLE tb_products(
        productCode INT PRIMARY KEY IDENTITY(1,1),
        productName VARCHAR(45) NOT NULL,
        productLine INT NOT NULL,
        productScale VARCHAR(45) NOT NULL,
        productVendor VARCHAR(45) NOT NULL,
        productDescription text NOT NULL,
        quantityInStock INT NOT NULL,
        buyPrice INT NOT NULL,
        MSRP VARCHAR(45) NOT NULL
);


INSERT INTO
tb_products(productName,productLine,productScale,productVendor,productDescription,quantityInStock,buyPrice,MSRP)
VALUES
    ('Huawei Band 6',0,5,'Huawei','Smart band',200,650000,500000),
    ('Seagate HDD 1 TB',0,7,'Seagate','External Hard Disk',300,1100000,1000000),
    ('Hada Labo Face Wash',1,6,'Hada Labo','Face Wash',4000,35000,35000),
    ('Susu Bendera Frision Flag',2,5,'Frision Flag','Susu kental manis',1300,25000,23000),
    ('Susu Dancow',2,10,'Nestle','Susu',500,52000,50000);


SELECT * FROM tb_products;
```


	productCode	productName	productLine	productScale	productVendor	productDescription	quantityInStock	buyPrice
1	1	Huawei Band 6	0	5	Huawei	Smart band	200	650,000
2	2	Seagate HDD 1 TB	0	7	Seagate	External Hard Disk	300	1,100,000
3	3	Hada Labo Face Wash	1	6	Hada Labo	Face Wash	4,000	35,000
4	4	Susu Bendera Frision Flag	2	5	Frision Flag	Susu kental manis	1,300	25,000
5	5	Susu Dancow	2	10	Nestle	Susu	500	52,000

```sql
-- TABEL 3
CREATE TABLE tb_productlines(
        productLine INT PRIMARY KEY IDENTITY(1,1),
        textDescription TEXT NOT NULL,
        htmlDescription TEXT NOT NULL,
        image VARCHAR(128) NOT NULL
);


INSERT INTO tb_productlines (textDescription,htmlDescription,image)
VALUES
    ('Electronics','electronics.html','electronics.jpg'),
    ('Cosmetics','cosmetics.html','cosmetics.jpg'),
    ('Milk','milk.html','milk.jpg'),
```

```sql
        ('Games','games.html','games.jpg'),
        ('Clothing','clothing.html','clothing.jpg');     ;
```

SELECT * **FROM** tb_productlines;

```sql
-- TABEL 4
CREATE TABLE tb_orders(
        orderNumber INT PRIMARY KEY IDENTITY(1,1),
        orderDate DATETIME NOT NULL,
        requiredDate DATETIME NOT NULL,
        shippedDate DATETIME NOT NULL,
        STATUS VARCHAR(45) NOT NULL,
        comments VARCHAR(255) NOT NULL,
        customerNumber INT NOT NULL
);
```

INSERT INTO tb_orders (orderDate,requiredDate,shippedDate,**STATUS**,comments,customerNumber)
VALUES
```sql
    ('2021-5-10 21:00:00','2021-10-13 00:00:00','2021-10-11 07:00:00','tervalidasi','-',0),
    ('2021-5-12 21:00:00','2021-10-16 00:00:00','2021-10-12 07:00:00','dikirimkan','-',1),
    ('2021-5-14 21:00:00','2021-10-17 00:00:00','2021-10-20 07:00:00','tervalidasi','-',2),
    ('2021-5-16 21:00:00','2021-10-19 00:00:00','2021-10-24 07:00:00','tervalidasi','-',3),
    ('2021-5-18 21:00:00','2021-10-19 00:00:00','2021-10-25 07:00:00','sudah selesai','-',4);
```

SELECT * **FROM** tb_orders;

```sql
-- TABEL 5
CREATE TABLE tb_orderdetails(
        orderNumber INT PRIMARY KEY IDENTITY(1,1),
```

```
        productCode INT NOT NULL,

        quantityOrdered INT NOT NULL,

        priceEach INT NOT NULL,

        orderLineNumber INT NOT NULL

);


INSERT INTO tb_orderdetails (productCode,quantityOrdered,priceEach,orderLineNumber)
VALUES
    (0,1,650000,0),

    (1,2,1100000,1),

    (2,1,35000,2),

    (3,3,25000,3),

    (4,1,52000,4);


SELECT * FROM tb_orderdetails;
```

Results 1

`SELECT * from tb_orderdetails;` Enter a SQL expression to filter results (use Ctrl+Space)

orderNumber	productCode	quantityOrdered	priceEach	orderLineNumber
1	0	1	650,000	0
2	1	2	1,100,000	1
3	2	1	35,000	2
4	3	3	25,000	3
5	4	1	52,000	4

```
-- TABEL 6
CREATE TABLE tb_payments(
        customerNumber INT NOT NULL,

        checkNumber INT PRIMARY KEY IDENTITY(1,1),

        PaymentDate DATETIME NOT NULL,

        amount INT NOT NULL,

);


INSERT INTO tb_payments (customerNumber,PaymentDate,amount)
VALUES
    (0,'2021-10-20 15:30:00',650000),

    (1,'2021-10-22 13:30:00',1100000),

    (2,'2021-10-23 12:30:00',35000),

    (3,'2021-10-24 08:30:00',25000),

    (4,'2021-10-25 21:30:00',52000);


SELECT * FROM tb_payments;
```

`SELECT * from tb_payments;` *Enter a SQL expression to filter results (use Ctrl+Space)*

123 customerNumber	123 checkNumber	PaymentDate	123 amount
0	1	2021-10-20 15:30:00.000	650,000
1	2	2021-10-22 13:30:00.000	1,100,000
2	3	2021-10-23 12:30:00.000	35,000
3	4	2021-10-24 08:30:00.000	25,000
4	5	2021-10-25 21:30:00.000	52,000

```
-- TABEL 7
CREATE TABLE tb_employees(
        employeeNumber INT PRIMARY KEY IDENTITY(1,1),
        lastName VARCHAR(45) NOT NULL,
        firstName VARCHAR(45) NOT NULL,
        extension VARCHAR(45) NOT NULL,
        email VARCHAR(128) NOT NULL,
        officeCode INT NOT NULL,
        reportsTo INT NOT NULL,
        jobTitle VARCHAR(45) NOT NULL,
);

INSERT INTO tb_employees (lastName,firstName,extension,email,officeCode,reportsTo,jobTitle)
VALUES
    ('angelina','nia','-','nia@mail.com',0,0,'Head Of Everything'),
    ('elva','grace','-','grace@mail.com',1,0,'Head Of Office'),
    ('risa','tanisha','-','tanisha@mail.com',1,1,'Office boy'),
    ('liudvya','may','-','may@mail.com',2,1,'counter'),
    ('hanum','nadila','-','nad@mail.com',2,1,'office staff');

SELECT * FROM tb_employees;
```

`SELECT * from tb_employees;` *Enter a SQL expression to filter results (use Ctrl+Space)*

employeeNumber	lastName	firstName	extension	email	officeCode	reportsTo	jobTitle
1	angelina	nia	-	nia@mail.com	0	0	Head Of Everything
2	elva	grace	-	grace@mail.com	1	0	Head Of Office
3	risa	tanisha	-	tanisha@mail.com	1	1	Office boy
4	liudvya	may	-	may@mail.com	2	1	counter
5	hanum	nadila	-	nad@mail.com	2	1	office staff

```
-- TABEL 8
CREATE TABLE tb_offices(
        officeCode INT PRIMARY KEY IDENTITY(1,1),
        city VARCHAR(40) NOT NULL,
```

```sql
    phone VARCHAR(18) NOT NULL,

    addressLine1 VARCHAR(125) NOT NULL,

    addressLine2 VARCHAR(125) NOT NULL,

    state VARCHAR(40) NOT NULL,

    country VARCHAR(40) NOT NULL,

    postalCode VARCHAR(6) NOT NULL,

    territory VARCHAR(40) NOT NULL

);


INSERT INTO tb_offices (city,phone,addressLine1,addressLine2,state,country,postalCode,territory)
VALUES
    ('Jakarta Pusat','021021','jl. satrio','-','DKI Jakarta','Indonesia','73635','-'),

    ('Jakarta Selatan','021666','jl. jalan','-','DKI Jakarta','Indonesia','36254','-'),

    ('Jakarta Utara','021333','jl. baru','-','DKI Jakarta','Indonesia','84635','-'),

    ('Jakarta Timur','021222','jl. lama','-','DKI Jakarta','Indonesia','38274','-'),

    ('Jakarta Barat','021111','jl. sini','-','DKI Jakarta','Indonesia','37294','-');


SELECT * FROM tb_offices;
```

officeCode	city	phone	addressLine1	addressLine2	state	country	postalCode	territory
1	Jakarta Pusat	021021	jl. satrio	-	DKI Jakarta	Indonesia	73635	-
2	Jakarta Selatan	021666	jl. jalan	-	DKI Jakarta	Indonesia	36254	-
3	Jakarta Utara	021333	jl. baru	-	DKI Jakarta	Indonesia	84635	-
4	Jakarta Timur	021222	jl. lama	-	DKI Jakarta	Indonesia	38274	-
5	Jakarta Barat	021111	jl. sini	-	DKI Jakarta	Indonesia	37294	-

```sql
-- JOINED TABLE
-- TABEL LIST TRANSAKSI YANG SUDAH DIGABUNG DENGAN BERBAGAI TABEL LAINNYA
SELECT
    cust.customerNumber, cust.customerName, ord.orderNumber, ods.quantityOrdered, ods.priceEach,

    (quantityOrdered * ods.priceEach) AS totalPrice, pro.productName, ord.status, emp.firstName AS salesrep

FROM tb_customers cust

JOIN tb_orders ord ON cust.customerNumber = ord.customerNumber

JOIN tb_orderdetails ods ON ord.orderNumber = ods.orderNumber

JOIN tb_products pro ON ods.productCode = pro.productCode

JOIN tb_employees emp ON cust.salesRepEmployeeNumber = emp.employeeNumber;
```

customerNumber	customerName	orderNumber	quantityOrdered	priceEach	totalPrice	productName	status	salesrep
1	Roy	2	2	1,100,000	2,200,000	Huawei Band 6	dikirimkan	nia
2	Fadhil	3	1	35,000	35,000	Seagate HDD 1 TB	tervalidasi	nia
3	Dzaky	4	3	25,000	75,000	Hada Labo Face Wash	tervalidasi	grace
4	Fuad	5	1	52,000	52,000	Susu Bendera Frision Flag	sudah selesai	grace