

# Day 11: SQL Session 1

[Langsung ke tugas](#)

## 1. Membuat Database dan Tabel

Setelah membuat database, mari kita buat tabel dengan SQL dibawah:

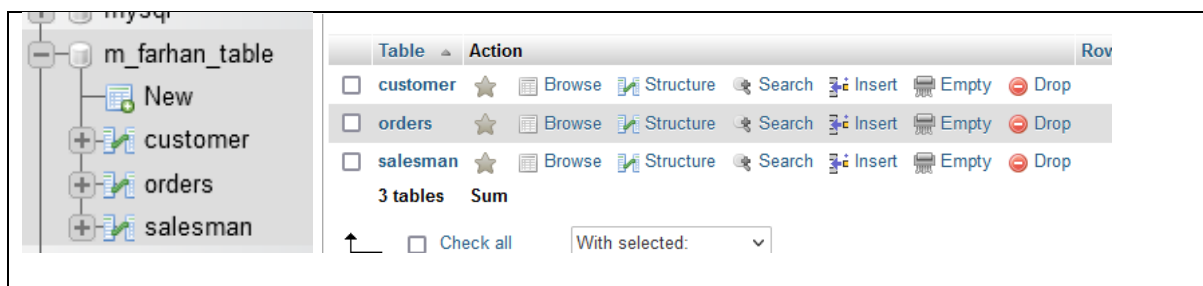
```
-- Create Table

CREATE TABLE IF NOT EXISTS customer(
    customer_id INT(11) NOT NULL AUTO_INCREMENT,
    PRIMARY KEY (customer_id),
    customer_name VARCHAR(20) NOT NULL,
    customer_city VARCHAR(20) NOT NULL
);

CREATE TABLE IF NOT EXISTS salesman(
    salesman_id INT(11) NOT NULL AUTO_INCREMENT,
    PRIMARY KEY (salesman_id),
    salesman_name VARCHAR(20) NOT NULL,
    salesman_city VARCHAR(20) NOT NULL,
    salesman_commission INT(11)
);

CREATE TABLE IF NOT EXISTS orders(
    orders_id INT(11) NOT NULL AUTO_INCREMENT,
    PRIMARY KEY (orders_id),
    orders_date DATE NOT NULL,
    orders_amount INT(11) NOT NULL,
    customer_id INT(11) NOT NULL,
    FOREIGN KEY (customer_id) REFERENCES customer(customer_id),
    salesman_id INT(11) NOT NULL,
    FOREIGN KEY (salesman_id) REFERENCES salesman(salesman_id)
);
```

Berikut hasil dari kueri SQL diatas:



## 2. Memasukkan data

Pertama, masukkan data untuk customer dan salesman terlebih dahulu:

```
-- Data Customer

INSERT INTO customer VALUES(
    NULL,
    'Elskan Wilde',
    'JAKARTA'
);

INSERT INTO customer VALUES(
    NULL,
    'Aprilya Yusri',
    'JAKARTA'
);

INSERT INTO customer VALUES(
    NULL,
    'Rio Novaldi',
    'BANDUNG'
);

INSERT INTO customer VALUES(
    NULL,
    'Ezar Nolan',
    'BANDUNG'
);

INSERT INTO customer VALUES(
    NULL,
    'Jessen Cornelius',
    'BANDUNG'
);

-- Data Salesman

INSERT INTO salesman VALUES(
    NULL,
    'Farhan Harahap',
    'JAKARTA',
    NULL
);

INSERT INTO salesman VALUES(
    NULL,
```

```
'Dzaki Marhaen',  
'BANDUNG',  
NULL  
);
```

Kedua, masukkan data untuk orders:

```
-- Data Orders  
  
INSERT INTO orders VALUES(  
    NULL,  
    '2024-2-23',  
    80,  
    1,  
    1  
);  
  
INSERT INTO orders VALUES(  
    NULL,  
    '2024-2-24',  
    125,  
    1,  
    1  
);  
  
INSERT INTO orders VALUES(  
    NULL,  
    '2024-2-24',  
    40,  
    4,  
    2  
);  
  
INSERT INTO orders VALUES(  
    NULL,  
    '2024-2-25',  
    65,  
    3,  
    2  
);  
  
INSERT INTO orders VALUES(  
    NULL,  
    '2024-2-25',  
    75,  
    4,
```

```

        2
    );

INSERT INTO orders VALUES(
    NULL,
    '2024-2-25',
    25,
    3,
    2
);

INSERT INTO orders VALUES(
    NULL,
    '2024-2-25',
    50,
    1,
    1
);

```

Sehingga, data siap digunakan:

customer_id	customer_name	customer_city
1	Elskan Wilde	JAKARTA
2	Aprilya Yusri	JAKARTA
3	Rio Novaldi	BANDUNG
4	Ezar Nolan	BANDUNG
5	Jessen Cornelius	BANDUNG

orders_id	orders_date	orders_amount	customer_id	salesman_id
1	2024-02-23	80	1	1
2	2024-02-24	125	1	1
3	2024-02-24	40	4	2
4	2024-02-25	65	3	2
5	2024-02-25	75	4	2
6	2024-02-25	25	3	2
7	2024-02-25	50	1	1

salesman_id	salesman_name	salesman_city	salesman_commission
1	Farhan Harahap	JAKARTA	NULL
2	Dzaki Marhaen	BANDUNG	NULL



### 3. Presentasi Kueri Tugas

Nomor 1: Tentukanlah pelanggan yang tidak pernah membuat pesanan!

```
-- 1. Tentukanlah pelanggan yang tidak pernah membuat pesanan!
```

```
SELECT * FROM customer
WHERE customer_id NOT IN (
    SELECT customer.customer_id
    FROM customer
    RIGHT JOIN orders
    ON customer.customer_id = orders.customer_id
);
```

customer_id	customer_name	customer_city
2	Aprilya Yusri	JAKARTA
5	Jessen Cornelius	BANDUNG

Nomor 2: Tentukan total banyak pembelian yang dilakukan oleh setiap pelanggan!

```
-- 2. Tentukan total banyak pembelian yang dilakukan oleh setiap pelanggan!
```

```
SELECT customer.customer_id, customer.customer_name, count(*) AS
'transactions'
FROM orders
LEFT JOIN customer
ON customer.customer_id = orders.customer_id
GROUP BY orders.customer_id;
```

customer_id	customer_name	transactions
1	Elskan Wilde	3
3	Rio Novaldi	2
4	Ezar Nolan	2

Nomor 3: Tentukan nama pelanggan beserta total banyak pesanan yang dilakukan!

```
-- 3. Tentukan nama pelanggan beserta total banyak pesanan yang dilakukan!
```

```
SELECT customer.customer_id, customer.customer_name,
SUM(orders.orders_amount) AS 'total'
FROM orders
LEFT JOIN customer
ON customer.customer_id = orders.customer_id
```

```
GROUP BY orders.customer_id;
```

customer_id	customer_name	total
1	Elskan Wilde	255
3	Rio Novaldi	90
4	Ezar Nolan	115

Nomor 4: Cari nilai max, min dan rata-rata dari amountnya!

```
-- 4. Cari nilai max, min dan rata-rata dari amountnya!
```

```
SELECT MIN(total) AS 'min_total', AVG(total) AS 'avg_total', MAX(total) AS  
'max_total'  
FROM (  
    SELECT customer.customer_id, customer.customer_name,  
    SUM(orders.orders_amount) AS total  
    FROM orders  
    LEFT JOIN customer ON customer.customer_id = orders.customer_id  
    GROUP BY orders.customer_id  
) AS subquery;
```

min_total	avg_total	max_total
90	153.3333	255