

Nama : Fajar Muslim  
ID : GBE01058

Pada dokumen ini terdapat beberapa section utama yaitu:

1. Table customer
2. Table orders
3. Table order\_details
4. Hasil query ke database sesuai homework yang diberikan

## 1. Table customer

Membuat table customers

```
mysql> CREATE TABLE customers (  
-> id INT NOT NULL PRIMARY KEY AUTO_INCREMENT,  
-> name CHAR(50) NOT NULL,  
-> phone CHAR(20) NOT NULL);  
Query OK, 0 rows affected (0,04 sec)
```

Table customers telah berhasil ditambahkan

```
mysql> SHOW TABLES;  
+-----+  
| Tables_in_food_oms_db |  
+-----+  
| categories             |  
| customers              |  
| item_categories        |  
| items                  |  
+-----+  
4 rows in set (0,00 sec)
```

Table customers yang terbuat sesuai dengan command yang dijalankan

```
mysql> DESCRIBE customers;  
+-----+-----+-----+-----+-----+-----+  
| Field | Type      | Null | Key | Default | Extra           |  
+-----+-----+-----+-----+-----+-----+  
| id    | int       | NO   | PRI | NULL    | auto_increment |  
| name  | char(50)  | NO   |     | NULL    |                 |  
| phone | char(20)  | NO   |     | NULL    |                 |  
+-----+-----+-----+-----+-----+-----+  
3 rows in set (0,01 sec)
```

Mengisi table customers

```
mysql> INSERT INTO customers (name, phone) VALUES
-> ("Budiawan", 80123123123),
-> ("Mary Jones", 81123123123),
-> ("Bima", 82123123123),
-> ("Janaka", 83123123123),
-> ("Sadewa", 84123123123);
Query OK, 5 rows affected (0,01 sec)
Records: 5  Duplicates: 0  Warnings: 0
```

Data berhasil dimasukkan ke table customer

```
mysql> SELECT * FROM customers;
+----+-----+-----+
| id | name      | phone      |
+----+-----+-----+
| 1  | Budiawan  | 80123123123 |
| 2  | Mary Jones | 81123123123 |
| 3  | Bima      | 82123123123 |
| 4  | Janaka    | 83123123123 |
| 5  | Sadewa    | 84123123123 |
+----+-----+-----+
5 rows in set (0,01 sec)
```

## 2. Table orders

Membuat table orders

```
mysql> CREATE TABLE orders (
-> id INT NOT NULL PRIMARY KEY AUTO_INCREMENT,
-> user_id INT NOT NULL,
-> order_date DATETIME NOT NULL,
-> total_price INT NOT NULL
-> );
Query OK, 0 rows affected (0,04 sec)
```

Table orders telah berhasil ditambahkan

```
mysql> SHOW TABLES;
+-----+
| Tables_in_food_oms_db |
+-----+
| categories             |
| customers               |
| item_categories         |
| items                   |
| orders                  |
+-----+
5 rows in set (0,00 sec)
```

Table orders yang terbuat sesuai dengan command yang dijalankan

```
mysql> DESCRIBE orders;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| id         | int       | NO   | PRI | NULL    | auto_increment |
| user_id    | int       | NO   |     | NULL    |                 |
| order_date | datetime  | NO   |     | NULL    |                 |
| total_price | int       | NO   |     | NULL    |                 |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0,01 sec)
```

Menambahkan constraint foreign key pada table orders

```
mysql> ALTER TABLE orders ADD FOREIGN KEY (user_id) REFERENCES customers(id);
Query OK, 0 rows affected (0,08 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

Foreign key berhasil ditambahkan pada table orders

```
mysql> DESCRIBE orders;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| id         | int       | NO   | PRI | NULL    | auto_increment |
| user_id    | int       | NO   | MUL | NULL    |                 |
| order_date | datetime  | NO   |     | NULL    |                 |
| total_price | int       | NO   |     | NULL    |                 |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0,00 sec)
```

Mengisi table orders

```
mysql> INSERT INTO orders (user_id, order_date, total_price) VALUES
-> (1,"2021-07-01 1:01:01",52000),
-> (1,"2021-07-01 2:02:02",71000),
-> (2,"2021-07-01 3:03:03",72000),
-> (2,"2021-07-01 4:04:04",15000),
-> (3,"2021-07-01 5:05:05",76000);
Query OK, 5 rows affected (0,00 sec)
Records: 5  Duplicates: 0  Warnings: 0
```

Data berhasil dimasukkan ke table orders

```
mysql> SELECT * FROM orders;
+-----+-----+-----+-----+
| id | user_id | order_date          | total_price |
+-----+-----+-----+-----+
| 1 | 1 | 2021-07-01 01:01:01 | 52000 |
| 2 | 1 | 2021-07-01 02:02:02 | 71000 |
| 3 | 2 | 2021-07-01 03:03:03 | 72000 |
| 4 | 2 | 2021-07-01 04:04:04 | 15000 |
| 5 | 3 | 2021-07-01 05:05:05 | 76000 |
+-----+-----+-----+-----+
5 rows in set (0,00 sec)
```

### 3. Table order\_details

Membuat table order\_details

```
mysql> CREATE TABLE order_details (
-> order_id INT NOT NULL,
-> item_id INT NOT NULL,
-> quantity INT NOT NULL
-> );
Query OK, 0 rows affected (0,04 sec)
```

Table order\_details telah berhasil ditambahkan

```
mysql> SHOW TABLES;
+-----+
| Tables_in_food_oms_db |
+-----+
| categories             |
| customers              |
| item_categories        |
| items                  |
| order_details          |
| orders                 |
+-----+
6 rows in set (0,00 sec)
```

Table order\_details yang terbuat sesuai dengan command yang dijalankan

```
mysql> DESCRIBE order_details;
+-----+-----+-----+-----+-----+-----+
| Field      | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| order_id   | int  | NO   |     | NULL    |       |
| item_id    | int  | NO   |     | NULL    |       |
| quantity   | int  | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0,00 sec)
```

Menambahkan constraint foreign key pada table order\_details

```
mysql> ALTER TABLE order_details ADD FOREIGN KEY (item_id) REFERENCES items(id);
Query OK, 0 rows affected (0,07 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> ALTER TABLE order_details ADD FOREIGN KEY (order_id) REFERENCES orders(id);
Query OK, 0 rows affected (0,10 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

Foreign key berhasil ditambahkan pada table order\_details

```
mysql> DESCRIBE order_details;
+-----+-----+-----+-----+-----+-----+
| Field      | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| order_id   | int  | NO   | MUL | NULL    |       |
| item_id    | int  | NO   | MUL | NULL    |       |
| quantity   | int  | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0,00 sec)
```

Mengisi table order\_details

```
mysql> INSERT INTO order_details (order_id, item_id, quantity) VALUES
-> (1,1,2),
-> (1,2,1),
-> (2,4,1),
-> (2,3,1),
-> (2,6,1),
-> (3,7,2),
-> (4,5,1),
-> (5,8,2),
-> (5,4,2);
Query OK, 9 rows affected (0,01 sec)
Records: 9  Duplicates: 0  Warnings: 0
```

Data berhasil dimasukkan ke table order\_details

```
mysql> SELECT * FROM order_details;
+-----+-----+-----+
| order_id | item_id | quantity |
+-----+-----+-----+
|         1 |         1 |         2 |
|         1 |         2 |         1 |
|         2 |         4 |         1 |
|         2 |         3 |         1 |
|         2 |         6 |         1 |
|         3 |         7 |         2 |
|         4 |         5 |         1 |
|         5 |         8 |         2 |
|         5 |         4 |         2 |
+-----+-----+-----+
9 rows in set (0,00 sec)
```

#### 4. Hasil query ke database sesuai homework yang diberikan

Query ke DB untuk menampilkan data sesuai homework

```
mysql> SELECT
-> orders.id AS 'order id',
-> orders.order_date AS 'order date',
-> customers.name AS 'customer name',
-> customers.phone AS 'customer phone',
-> orders.total_price AS 'total',
-> GROUP_CONCAT(items.name) AS 'items bought'
-> FROM customers
-> JOIN orders ON customers.id = orders.user_id
-> JOIN order_details ON order_details.order_id = orders.id
-> JOIN items ON order_details.item_id = items.id
-> GROUP BY order_details.order_id;
```

order id	order date	customer name	customer phone	total	items bought
1	2021-07-01 01:01:01	Budiawan	80123123123	52000	Nasi Goreng Gila,Ice Water
2	2021-07-01 02:02:02	Budiawan	80123123123	71000	Green Tea Latte,Spaghetti,Vanilla Ice Cream
3	2021-07-01 03:03:03	Mary Jones	81123123123	72000	Cordon Blue
4	2021-07-01 04:04:04	Mary Jones	81123123123	15000	Orange Juice
5	2021-07-01 05:05:05	Bina	82123123123	76000	French Fries,Green Tea Latte

5 rows in set (0,01 sec)