

# Processing Multiple Tables

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## Tipe-tipenya

Join -> Proses penggabungan data dari 2 buah tabel atau lebih. Tetapi akan melakukan join apa adanya. Tidak melihat jumlah row disisi source ataupun destination.

Equal-Join -> Akan memastikan bahwa data yang akan ditampilkan sesuai dengan key (penyamaan ID) pada tabel utama ataupun tabel kedua. PK dan FK.

## 1. Contoh Penggunaan Join

```
select c.customerid,customername,orderid from customer_t c join order_t;
```

```
mysql> select c.customerid,customername,orderid from customer_t c join order_t;
```

customerid	customername	orderid
1	Contemporary Casuals	1001
2	Value Furniture	1001
3	Home Furnishings	1001
4	Eastern Furniture	1001
5	Impressions	1001
6	Furniture Galery	1001
7	Period Furniture	1001
8	California Classics	1001
1	Contemporary Casuals	1006
2	Value Furniture	1006
3	Home Furnishings	1006
4	Eastern Furniture	1006
5	Impressions	1006
6	Furniture Galery	1006
7	Period Furniture	1006
8	California Classics	1006
1	Contemporary Casuals	1007
2	Value Furniture	1007
3	Home Furnishings	1007
4	Eastern Furniture	1007
5	Impressions	1007
6	Furniture Galery	1007
7	Period Furniture	1007
8	California Classics	1007
1	Contemporary Casuals	1002
2	Value Furniture	1002
3	Home Furnishings	1002
4	Eastern Furniture	1002
5	Impressions	1002
6	Furniture Galery	1002
7	Period Furniture	1002

8	California Classics	1002
1	Contemporary Casuals	1008
2	Value Furniture	1008
3	Home Furnishings	1008
4	Eastern Furniture	1008
5	Impressions	1008
6	Furniture Galery	1008
7	Period Furniture	1008
8	California Classics	1008
1	Contemporary Casuals	1010
2	Value Furniture	1010
3	Home Furnishings	1010
4	Eastern Furniture	1010
5	Impressions	1010
6	Furniture Galery	1010
7	Period Furniture	1010
8	California Classics	1010
1	Contemporary Casuals	1003
2	Value Furniture	1003
3	Home Furnishings	1003
4	Eastern Furniture	1003
5	Impressions	1003
6	Furniture Galery	1003
7	Period Furniture	1003
8	California Classics	1003
1	Contemporary Casuals	1009
2	Value Furniture	1009
3	Home Furnishings	1009
4	Eastern Furniture	1009
5	Impressions	1009
6	Furniture Galery	1009
7	Period Furniture	1009
8	California Classics	1009
1	Contemporary Casuals	1004
2	Value Furniture	1004
3	Home Furnishings	1004
4	Eastern Furniture	1004
5	Impressions	1004
6	Furniture Galery	1004
7	Period Furniture	1004
8	California Classics	1004
1	Contemporary Casuals	1005
2	Value Furniture	1005
3	Home Furnishings	1005
4	Eastern Furniture	1005
5	Impressions	1005
6	Furniture Galery	1005
7	Period Furniture	1005
8	California Classics	1005

+-----+-----+-----+

80 rows in set (0.00 sec)

## 2. Contoh Penggunaan Equal-Join

### 2.1. Contoh menggunakan *inner join*

```
select c.customerid,customername,orderid from customer_t c inner join order_t o on  
c.customerid=o.customerid;
```

```
mysql> select c.customerid,customername,orderid from customer_t c inner join order_t o  
on c.customerid=o.customerid;  
+-----+-----+-----+  
| customerid | customername | orderid |  
+-----+-----+-----+  
| 1 | Contemporary Casuals | 1001 |  
| 1 | Contemporary Casuals | 1006 |  
| 1 | Contemporary Casuals | 1007 |  
| 2 | Value Furniture | 1002 |  
| 2 | Value Furniture | 1008 |  
| 2 | Value Furniture | 1010 |  
| 3 | Home Furnishings | 1003 |  
| 3 | Home Furnishings | 1009 |  
| 4 | Eastern Furniture | 1004 |  
| 5 | Impressions | 1005 |  
+-----+-----+-----+  
10 rows in set (0.01 sec)
```

```
select c.customerid,customername,orderid from customer_t c inner join order_t o on  
c.customerid=o.customerid where customername="Home Furnishings";
```

```
mysql> select c.customerid,customername,orderid from customer_t c inner join order_t o  
on c.customerid=o.customerid where customername="Home Furnishings";  
+-----+-----+-----+  
| customerid | customername | orderid |  
+-----+-----+-----+  
| 3 | Home Furnishings | 1003 |  
| 3 | Home Furnishings | 1009 |  
+-----+-----+-----+  
2 rows in set (0.00 sec)
```

```
select c.customerid,customername,orderid from customer_t c , order_t o where  
c.customerid=o.customerid;
```

## 2.2. Contoh menggunakan *where*

```
mysql> select c.customerid,customername,orderid from customer_t c , order_t o where c.customerid=o.customerid;
```

```
mysql> select c.customerid,customername,orderid from customer_t c , order_t o where c.customerid=o.customerid;
+-----+-----+-----+
| customerid | customername      | orderid |
+-----+-----+-----+
|      1 | Contemporary Casuals |    1001 |
|      1 | Contemporary Casuals |    1006 |
|      1 | Contemporary Casuals |    1007 |
|      2 | Value Furniture     |    1002 |
|      2 | Value Furniture     |    1008 |
|      2 | Value Furniture     |    1010 |
|      3 | Home Furnishings   |    1003 |
|      3 | Home Furnishings   |    1009 |
|      4 | Eastern Furniture   |    1004 |
|      5 | Impressions         |    1005 |
+-----+-----+-----+
10 rows in set (0.00 sec)
```

Contoh jika dippersempit

```
mysql> select c.customerid,customername,orderid from customer_t c , order_t o where c.customerid=o.customerid and customername="Home Furnishings";
+-----+-----+-----+
| customerid | customername      | orderid |
+-----+-----+-----+
|      3 | Home Furnishings |    1003 |
|      3 | Home Furnishings |    1009 |
+-----+-----+-----+
2 rows in set (0.00 sec)
```

## 3. Latihan

- Coba tampilkan prod desc, prod finish, prod std price dan order quantity dari tabel product\_t dan orderline

```
select ProductDescription,ProductFinish,ProductStandardPrice,OrderedQuantity from product_t p inner join orderline_t o on p.ProductID=o.ProductID;
```

```

mysql> select ProductDescription,ProductFinish,ProductStandardPrice,OrderedQuantity
from product_t p inner join orderline_t o on p.ProductID=o.ProductID;
+-----+-----+-----+-----+
| ProductDescription | ProductFinish | ProductStandardPrice | OrderedQuantity |
+-----+-----+-----+-----+
| End Table          | Cherry      | 175.00             | 2           |
| End Table          | Cherry      | 175.00             | 3           |
| Coffe Table        | Natural Ash | 200.00             | 2           |
| Coffe Table        | Natural Ash | 200.00             | 2           |
| Computer Desk      | Natural Ash | 375.00             | 5           |
| Computer Desk      | Natural Ash | 375.00             | 3           |
| Computer Desk      | Natural Ash | 375.00             | 3           |
| Entertainment Center | Natural Maple | 650.00             | 1           |
| Entertainment Center | Natural Maple | 650.00             | 4           |
| Entertainment Center | Natural Maple | 650.00             | 1           |
| Entertainment Center | Natural Maple | 650.00             | 2           |
| Writters Desk       | Cherry      | 325.00             | 2           |
| 8-Drawer Desk       | White Ash   | 759.00             | 2           |
| Dinning Table       | Natural Ash | 800.00             | 2           |
| Dinning Table       | Natural Ash | 800.00             | 3           |
| Computer Desk       | Walnut      | 250.00             | 2           |
| Computer Desk       | Walnut      | 250.00             | 3           |
| Computer Desk       | Walnut      | 250.00             | 10          |
+-----+-----+-----+-----+
18 rows in set (0.01 sec)

```

Contoh jika dipersempit

```

mysql> select ProductDescription,ProductFinish,ProductStandardPrice,OrderedQuantity
from product_t p inner join orderline_t o on p.ProductID=o.ProductID where
ProductStandardPrice > 300 and ProductStandardPrice < 700;
+-----+-----+-----+-----+
| ProductDescription | ProductFinish | ProductStandardPrice | OrderedQuantity |
+-----+-----+-----+-----+
| Computer Desk      | Natural Ash | 375.00             | 5           |
| Computer Desk      | Natural Ash | 375.00             | 3           |
| Computer Desk      | Natural Ash | 375.00             | 3           |
| Entertainment Center | Natural Maple | 650.00             | 1           |
| Entertainment Center | Natural Maple | 650.00             | 4           |
| Entertainment Center | Natural Maple | 650.00             | 1           |
| Entertainment Center | Natural Maple | 650.00             | 2           |
| Writters Desk       | Cherry      | 325.00             | 2           |
+-----+-----+-----+-----+
8 rows in set (0.00 sec)

```

- Coba tampilkan prod desc, prod std price dari tabel product\_t dan orderline dan digroupkan berdasarkan product description

```

mysql> select ProductDescription,sum(ProductStandardPrice) total from product_t p
inner join orderline_t o on p.Product                               group by ProductDescription;
+-----+-----+
| ProductDescription | total |
+-----+-----+
| 8-Drawer Desk      | 759.00 |
| Coffe Table        | 400.00 |
| Computer Desk      | 1875.00 |
| Dinning Table       | 1600.00 |
| End Table           | 350.00 |
| Entertainment Center | 2600.00 |
| Writters Desk        | 325.00 |
+-----+-----+
7 rows in set (0.00 sec)

```

```

mysql> select ProductDescription,sum(ProductStandardPrice) total from product_t p
inner join orderline_t o on p.ProductID=o.ProductID group by ProductDescription having
sum(ProductStandardPrice)<900;

```

```

mysql> select ProductDescription,sum(ProductStandardPrice) total from product_t p
inner join orderline_t o on p.ProductID=o.ProductID group by ProductDescription having
sum(ProductStandardPrice)<900;
+-----+-----+
| ProductDescription | total |
+-----+-----+
| 8-Drawer Desk      | 759.00 |
| Coffe Table         | 400.00 |
| End Table           | 350.00 |
| Writters Desk        | 325.00 |
+-----+-----+
4 rows in set (0.00 sec)

```

- Tampilkan data dari 3 tabel secara bebas. Yaitu Cust tabel, Order tabel dan Order Line tabel

```

mysql> select CustomerName,OrderDate,OrderedQuantity from customer_t c inner join
order_t o on c.CustomerID=o.CustomerID inner join orderline_t ol on
o.OrderID=ol.OrderID;
+-----+-----+-----+
| CustomerName | OrderDate | OrderedQuantity |
+-----+-----+-----+
| Contemporary Casuals | 2018-06-26 20:14:45 | 2 |
| Contemporary Casuals | 2018-06-26 20:14:45 | 2 |
| Contemporary Casuals | 2018-06-26 20:14:45 | 1 |
| Contemporary Casuals | 2018-06-26 20:14:45 | 1 |
| Contemporary Casuals | 2018-06-26 20:14:45 | 2 |
| Contemporary Casuals | 2018-06-26 20:14:45 | 2 |
| Contemporary Casuals | 2018-06-26 20:14:45 | 3 |
| Contemporary Casuals | 2018-06-26 20:14:45 | 2 |
| Value Furniture | 2018-06-26 20:14:45 | 5 |
| Value Furniture | 2018-06-26 20:14:45 | 3 |
| Value Furniture | 2018-06-26 20:14:45 | 3 |
| Value Furniture | 2018-06-26 20:14:45 | 10 |
| Home Furnishings | 2018-06-26 20:14:45 | 3 |
| Home Furnishings | 2018-06-26 20:14:45 | 2 |
| Home Furnishings | 2018-06-26 20:14:45 | 3 |
| Eastern Furniture | 2018-06-26 20:14:45 | 2 |
| Eastern Furniture | 2018-06-26 20:14:45 | 2 |
| Impressions | 2018-06-26 20:14:45 | 4 |
+-----+-----+-----+
18 rows in set (0.00 sec)

```

- Tampilkan nama customer, alamat cust, tanggal pesan, prod finish, prod std price. Batasi datanya yang order quantity lebih besar dari 5

```

mysql> select
CustomerName,CustomerAddress,OrderDate,ProductFinish,ProductStandardPrice,orderedquant
ity from Customer_T c inner join Order_T o on c.CustomerID=o.CustomerID
-> inner join orderline_t ol on o.orderid=ol.orderid
-> inner join product_t p on ol.productid=p.productid
-> where orderedquantity > 5;

```

```
mysql> select
CustomerName, CustomerAddress, OrderDate, ProductFinish, ProductStandardPrice, orderedquantity
from Customer_T c inner join Order_T o on c.CustomerID=o.CustomerID
-> inner join orderline_t ol on o.orderid=ol.orderid
-> inner join product_t p on ol.productid=p.productid
-> where orderedquantity > 5;

+-----+-----+-----+
+-----+-----+
| CustomerName | CustomerAddress | OrderDate           | ProductFinish |
ProductStandardPrice | orderedquantity |
+-----+-----+-----+
+-----+-----+
| Value Furniture | 15145 S. W. 17th St. | 2018-06-26 20:14:45 | Walnut       |
250.00 |          10 |
+-----+-----+-----+
+-----+-----+
1 row in set (0.00 sec)
```