

# 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 dipersempit

```
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
Writers 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
Writers 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.ProductID=o.ProductID 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, 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;
```

```
+-----+-----+-----+-----+
+-----+
| 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)
```