

# Penggunaan Select Command pada SQL

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# 1. Tipe-tipe Kombinasi pada Select

```
> -> lebih besar dari  
< -> lebih kecil dari  
>= -> lebih besar sama dengan  
<= -> lebih kecil sama dengan  
!= -> tidak sama dengan  
= -> sama dengan  
and -> dan. Nilai harus TRUE dua-dua nya  
or -> atau. Nilai harus TRUE salah satu  
not -> bukan  
like -> digunakan untuk mencari kata  
in -> Digunakan semacam pilihan pada checkbox kata mana saja yang dipilih  
count -> untuk menghitung jumlah row. Bisa dalam bentuk huruf atau angka  
sum -> untuk mencari nilai total. Hanya bisa angka  
avg -> untuk mencari rata-rata. Hanya bisa angka  
min -> untuk mencari nilai minimum. Bisa dalam bentuk huruf atau angka  
max -> untuk mencari nilai maksimum. Bisa dalam bentuk huruf atau angka  
group by -> untuk membatasi tampilan data  
having -> biasanya digunakan dengan group by
```

## 2. Contoh Perintah Select

### 2.1. Contoh tanda >, < dan =

Contoh 1

```
mysql> select productid from orderline_t where orderedquantity > 3 and orderedquantity  
<=7;  
+-----+  
| productid |  
+-----+  
| 3 |  
| 4 |  
+-----+  
2 rows in set (0.00 sec)
```

contoh 2

```

mysql> select OrderedQuantity from orderline_t where productid >= 5 and productid < 8;
+-----+
| OrderedQuantity |
+-----+
|          2 |
|          2 |
|          2 |
|          3 |
+-----+
4 rows in set (0.01 sec)

```

## 2.2. Contoh *in*

Contoh menggunakan integer

```

mysql> select productid,OrderedQuantity from orderline_t where productid in(8,7);
+-----+-----+
| productid | OrderedQuantity |
+-----+-----+
|      8 |          2 |
|      7 |          2 |
|      8 |          3 |
|      7 |          3 |
|      8 |         10 |
+-----+-----+
5 rows in set (0.00 sec)

```

Contoh menggunakan varchar

```

mysql> select customername,customeraddress,customercity from Customer_T where
customerstate in ('CA','WA','NY');
+-----+-----+-----+
| customername | customeraddress | customercity |
+-----+-----+-----+
| Home Furnishings | 1900 Allard Ave. | Albany |
| Furniture Galery | 325 Flatiron Dr. | Boulder |
| Period Furniture | 394 Rainbow Dr. | Seattle |
| California Classics | 816 Peach Rd. | Santa Clara |
+-----+-----+-----+
4 rows in set (0.00 sec)

```

## 2.3. Contoh *not in*

```
mysql> select productid,OrderedQuantity from orderline_t where productid not in(8,7);
+-----+-----+
| productid | OrderedQuantity |
+-----+-----+
|      1 |          2 |
|      2 |          2 |
|      4 |          1 |
|      3 |          5 |
|      3 |          3 |
|      6 |          2 |
|      4 |          4 |
|      4 |          1 |
|      5 |          2 |
|      1 |          3 |
|      2 |          2 |
|      3 |          3 |
|      4 |          2 |
+-----+
13 rows in set (0.00 sec)
```

## 2.4. Contoh *like*

Mencari kata yang berakhiran s

```
mysql> select customername,customeraddress,customercity from Customer_T where
customercity like '_a%';
+-----+-----+-----+
| customername | customeraddress | customercity |
+-----+-----+-----+
| Value Furniture | 15145 S. W. 17th St. | Plano |
| Period Furniture | 394 Rainbow Dr. | Seattle |
+-----+-----+-----+
2 rows in set (0.00 sec)
```

**Note :** \_ adalah tanda underline (underscore) 2 kali

Mencari kata yang berakhiran s

```
mysql> select customername, customeraddress, customercity from Customer_T where customername like '%s';
+-----+-----+-----+
| customername | customeraddress | customercity |
+-----+-----+-----+
| Contemporary Casuals | 1355 S Hines Blvd | Gainesville |
| Home Furnishings | 1900 Allard Ave. | Albany |
| Impressions | 5585 Westcott Ct. | Sacramento |
| California Classics | 816 Peach Rd. | Santa Clara |
+-----+-----+-----+
4 rows in set (0.00 sec)
```

## 2.5. Contoh *count*

```
mysql> select count(*) jumlah from customer_t;
+-----+
| jumlah |
+-----+
|     8 |
+-----+
1 row in set (0.01 sec)

mysql> select count(*) from customer_t;
+-----+
| count(*) |
+-----+
|     8 |
+-----+
1 row in set (0.00 sec)
```

## 2.6. Contoh *min* dan *max*

```
mysql> select min(customername) minimum, max(customername) from customer_t;
+-----+-----+
| minimum | max(customername) |
+-----+-----+
| California Classics | Value Furniture |
+-----+-----+
1 row in set (0.01 sec)
```

## 2.7. Contoh *sum* dan *avg*

```
mysql> select sum(orderedquantity) total, avg(orderedquantity) "rata-rata" from orderline_t;
+-----+-----+
| total | rata-rata |
+-----+-----+
|    52 |    2.8889 |
+-----+
1 row in set (0.01 sec)
```

## 2.8. Contoh kombinasi *sum*, *avg*, *min* dan *max*

```
mysql> select sum(orderedquantity) total, avg(orderedquantity) "rata-rata",
min(orderedquantity) "Nilai Min", max(orderedquantity) "Nilai Max" from orderline_t;
+-----+-----+-----+-----+
| total | rata-rata | Nilai Min | Nilai Max |
+-----+-----+-----+-----+
|    52 |    2.8889 |        1 |       10 |
+-----+-----+-----+
1 row in set (0.01 sec)
```

## 2.9. Contoh *sum* dan *group by*

```
mysql> select orderid, sum(orderedquantity) from orderline_t group by orderid;
+-----+-----+
| orderid | sum(orderedquantity) |
+-----+-----+
|   1001 |             5 |
|   1002 |             5 |
|   1003 |             3 |
|   1004 |             4 |
|   1005 |             4 |
|   1006 |             5 |
|   1007 |             5 |
|   1008 |             6 |
|   1009 |             5 |
|   1010 |            10 |
+-----+
10 rows in set (0.00 sec)
```

## 2.10. Contoh *count* dan *group by*

```
mysql> select orderid, count(orderedquantity) from orderline_t group by orderid;
+-----+-----+
| orderid | count(orderedquantity) |
+-----+-----+
| 1001    |          3 |
| 1002    |          1 |
| 1003    |          1 |
| 1004    |          2 |
| 1005    |          1 |
| 1006    |          3 |
| 1007    |          2 |
| 1008    |          2 |
| 1009    |          2 |
| 1010    |          1 |
+-----+-----+
10 rows in set (0.01 sec)
```

## 2.11. Contoh *group by* dan *having*

```
mysql> select orderid, sum(orderedquantity) from orderline_t group by orderid having sum(orderedquantity)>6;
```

```
+-----+-----+
| orderid | sum(orderedquantity) |
+-----+-----+
|    1010 |          10 |
+-----+-----+
1 row in set (0.02 sec)
```

```
mysql> select orderid, sum(orderedquantity) from orderline_t group by orderid having sum(orderedquantity)>1;
```

```
+-----+-----+
| orderid | sum(orderedquantity) |
+-----+-----+
|    1001 |          5 |
|    1002 |          5 |
|    1003 |          3 |
|    1004 |          4 |
|    1005 |          4 |
|    1006 |          5 |
|    1007 |          5 |
|    1008 |          6 |
|    1009 |          5 |
|    1010 |         10 |
+-----+-----+
```

```
10 rows in set (0.00 sec)
```

```
mysql> select orderid, sum(orderedquantity) from orderline_t group by orderid having sum(orderedquantity)<5;
```

```
+-----+-----+
| orderid | sum(orderedquantity) |
+-----+-----+
|    1003 |          3 |
|    1004 |          4 |
|    1005 |          4 |
+-----+-----+
```

```
3 rows in set (0.00 sec)
```

### 3. Latihan

- Tampilkan ProductDescription, ProductFinish yang mana ProductStandardPrice nilainya kurang dari 200

```
mysql> select ProductDescription,ProductFinish,ProductStandardPrice from Product_T
where ProductStandardPrice < 200;
+-----+-----+-----+
| ProductDescription | ProductFinish | ProductStandardPrice |
+-----+-----+-----+
| End Table          | Cherry      | 175.00 |
+-----+-----+-----+
1 row in set (0.01 sec)
```

- Tampilkan ProductDescription, ProductFinish yang mana ProductStandardPrice nilainya lebih dari 200 dan ProductStandardPrice kurang dari 800

```
mysql> select ProductDescription,ProductFinish,ProductStandardPrice from Product_T
where ProductStandardPrice > 200 and ProductStandardPrice < 800;
+-----+-----+-----+
| ProductDescription | ProductFinish | ProductStandardPrice |
+-----+-----+-----+
| Computer Desk     | Natural Ash   | 375.00 |
| Entertainment Center | Natural Maple | 650.00 |
| Writters Desk     | Cherry        | 325.00 |
| 8-Drawer Desk     | White Ash     | 759.00 |
| Computer Desk     | Walnut        | 250.00 |
+-----+-----+-----+
5 rows in set (0.00 sec)
```

- Tampilkan ProductDescription, ProductFinish yang mana ProductFinish sama dengan Cherry

```
mysql> select ProductDescription,ProductFinish,ProductStandardPrice from Product_T
where ProductFinish='Cherry';
+-----+-----+-----+
| ProductDescription | ProductFinish | ProductStandardPrice |
+-----+-----+-----+
| End Table          | Cherry      | 175.00 |
| Writters Desk      | Cherry      | 325.00 |
+-----+-----+-----+
2 rows in set (0.01 sec)
```

- Tampilkan ProductFinish lalu summary dari prod ProductStandardPrice di group kan berdasarkan ProductFinish

```
mysql> select ProductFinish, sum(ProductStandardPrice) Total from Product_T group by ProductFinish;
+-----+-----+
| ProductFinish | Total   |
+-----+-----+
| Cherry       | 500.00 |
| Natural Ash | 1375.00|
| Natural Maple| 650.00 |
| Walnut       | 250.00 |
| White Ash    | 759.00 |
+-----+-----+
```

- Tampilkan ProductFinish lalu summary dari prod ProductStandardPrice di group kan berdasarkan ProductFinish dan ProductStandardPrice nilainya diatas 600

```
mysql> select ProductFinish, sum(ProductStandardPrice) Total from Product_T group by ProductFinish having sum(ProductStandardPrice) > 600;
+-----+-----+
| ProductFinish | Total   |
+-----+-----+
| Natural Ash | 1375.00|
| Natural Maple| 650.00 |
| White Ash    | 759.00 |
+-----+-----+
3 rows in set (0.00 sec)
```