

Penggunaan Select Command pada SQL

Ahmad Imanudin

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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	Ganesville
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)
```