

MySQL

Practical 8 MySQL Join Advance Query

1) display all details of every client clients as well as order details of clients. Using leftjoin

```
select * from client_master as c left join sales_order as s on c.clientno = s.clientno;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
-----+
| clientno | name   | city   | state   | baldue | orderno | clientno | orderdate | salesmanno | delytype | d
eltdate | orderstatus |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
-----+
| C00001 | Korth  | mumbai | maharastra | 15500.00 | O19001 | C00001 | 2004-06-12 | S00001 | | F
| 2004-07-20 | In Process |
| C00001 | Korth  | mumbai | maharastra | 15500.00 | O19003 | C00001 | 2004-04-03 | S00001 | | F
| 2004-04-07 | Fulfilled |
| C00002 | mamta  | madras  | tamil nadu | 0.00 | O19002 | C00002 | 2004-06-25 | S00002 | | P
| 2004-06-27 | Cancelled |
| C00003 | chhaya | mumbai  | maharastra | 5000.00 | O46865 | C00003 | 2004-02-18 | S00003 | |
F | 2004-02-20 | Fulfilled |
| C00004 | ashwini | bangalore | karnataka | 0.00 | O46866 | C00004 | 2004-05-20 | S00002 | | P
| 2004-05-22 | Cancelled |
| C00005 | hansel  | mumbai  | maharastra | 2000.00 | O19008 | C00005 | 2004-05-24 | S00004 | | F
| 2004-07-26 | In Process | | | | | |
| C00006 | deepak  | bangalore | karnataka | 0.00 | NULL | NULL |
| NULL | NULL | NULL | NULL | NULL |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

2. Display only those salesman name who has supplies the order (hint innerjoin)

```
select distinct sm.salesmannname from salesman_master as sm inner join
sales_order as so on sm.salesmanno = so.salesmanno;
```

```
+-----+
| salesmannname |
+-----+
| Aman          |
| Omkar         |
| Ray           |
| Ashishh       |
+-----+
```

3. display only those product name who has been ordered.(hint inner join)

```
select distinct p.description from product_master as p inner join sales_order_details as s where p.product
no = s.productno;
```

```
+-----+
| description |
+-----+
| T-Shirts    |
| Shirts      |
| Cotton jeans |
| Trousers    |
| pull overs  |
| demin Shirts |
```

```
| lycra tops |
+-----+
```

4) Display salesman name,city,saleamount,clientno,orderno,orderdate,orderstatus of only those sales man who have order. Using right join.

```
select s.salesmanname ,s.city ,s.sale_amt , so.clientno , so.orderno, so.orderdate , so.orderstatus from s
alesman_master s right join sales_order as so on s.salesmanno = so.salesmanno;
```

```
+-----+-----+-----+-----+-----+-----+
| salesmanname | city | sale_amt | clientno | orderno | orderdate | orderstatus |
+-----+-----+-----+-----+-----+-----+
| Aman | Mumbai | 3000.00 | C00001 | O19001 | 2004-06-12 | In Process |
| Omkar | Mumbai | 6700.00 | C00002 | O19002 | 2004-06-25 | Cancelled |
| Aman | Mumbai | 3000.00 | C00001 | O19003 | 2004-04-03 | Fulfilled |
| Ashishh | Ahmedabad | 3500.00 | C00005 | O19008 | 2004-05-24 | In Process |
| Ray | Mumbai | 4000.00 | C00003 | O46865 | 2004-02-18 | Fulfilled |
| Omkar | Mumbai | 6700.00 | C00004 | O46866 | 2004-05-20 | Cancelled |
+-----+-----+-----+-----+-----+-----+
```

5) displaydescription, description,qtyonhand,reorderlvl,sellprice,qtyorder,orderno for all product Using left join .

```
select p.description , p.qtyonhand , p.reordervl , p.sellprice , s.qtyordered , s.orderno from product_master
as p left join sales_order_details as s on p.productno = s.productno;
```

```
+-----+-----+-----+-----+-----+-----+
| description | qtyonhand | reordervl | sellprice | qtyordered | orderno |
+-----+-----+-----+-----+-----+-----+
| T-Shirts | 200 | 50 | 350.00 | 4 | O19001 |
| T-Shirts | 200 | 50 | 350.00 | 10 | O19002 |
| T-Shirts | 200 | 50 | 350.00 | 10 | O46865 |
| T-Shirts | 200 | 50 | 350.00 | 8 | O19008 |
| Shirts | 150 | 50 | 500.00 | 4 | O46865 |
| Shirts | 150 | 50 | 500.00 | 2 | O19003 |
| Cotton jeans | 100 | 20 | 600.00 | 1 | O19003 |
| jeans | 100 | 20 | 750.00 | NULL | NULL |
| Trousers | 150 | 50 | 850.00 | 3 | O46865 |
| pull overs | 80 | 30 | 700.00 | 2 | O19001 |
| pull overs | 80 | 30 | 700.00 | 3 | O46865 |
| demin Shirts | 100 | 4 | 350.00 | 2 | O19001 |
| demin Shirts | 100 | 4 | 350.00 | 1 | O46866 |
| lycra tops | 70 | 30 | 300.00 | 1 | O46866 |
| lycra tops | 70 | 30 | 300.00 | 5 | O19008 |
| skirts | 75 | 30 | 450.00 | NULL | NULL |
+-----+-----+-----+-----+-----+-----+
```

Exercise on Case Statement

1. Based on sale price of product display the message as result. If saleprice is less than 500 , result message is “its not costaly” o.w display the result message “it is costaly”
Output should be like Prductno , sellprice, result

```
select productno, sellprice,
case
```

```

when sellprice < 500 then "its not costaly"
else "its costaly"
end as result from product_master;

```

productno	sellprice	result
P00001	350.00	its not costaly
P0345	500.00	its costaly
P06734	600.00	its costaly
P07865	750.00	its costaly
P07868	850.00	its costaly
P07885	700.00	its costaly
P07965	350.00	its not costaly
P07975	300.00	its not costaly
P08865	450.00	its not costaly

2)
Calculate the bonus for the salesman based on sales amount

If sales_amount is 1000-2000 give 2% bonus

If sales_amount is 2001-3000 give 3% bonus

If sales_amount greater than 3000 give 5% bonus

o.w dont give any bonus. Output should be like Salesmanno, sales_amount, bounus

```

select salesmanno, sale_amt ,
case
when sale_amt >=2000 and sale_amt < 1000 then sale_amt*0.02
when sale_amt >2000 and sale_amt <= 3000 then sale_amt*0.03
when sale_amt >=3000 then sale_amt*0.05
end as bonus from salesman_master;

```

salesmanno	sale_amt	bonus
S00001	3000.00	90.00
S00002	6700.00	335.00
S00003	4000.00	200.00
S00004	3500.00	175.00
S1007	9000.00	450.00

3) calculate total quantity ordered of each product .

if is 5-10 message is "good sailing item"

if is 10-15 message is "very good sailing item"

else message "no sale"

```

select productno , sum(qtyordered) as total_qty ,
case
when sum(qtyordered) >= 5 and sum(qtyordered) <10 then "good sailing item"
when sum(qtyordered) >= 10 and sum(qtyordered) <=15 then "very good sailing item"
else "no sale"
end as message from sales_order_details group by productno;

```

productno	total_qty	message
P00001	32	no sale
P0345	6	good sailing item
P06734	1	no sale
P07868	3	no sale
P07885	5	good sailing item
P07965	3	no sale
P07975	6	good sailing item

- 4) Add field bonus float(10,2) in office table;
 Update the bonus of every employee based on salary
 If salary is 5000-10000 then bonus is 2%
 If salary is 10,001 – 15 then bonus is 3 %
 If salary is greater than 15,000 then bonus is 5%
 Else bonus is 0%

```
alter table emp add column bonus float(10,2) ;
```

```
update emp set bonus =
case
  when salary >=5000 and salary <=10000 then salary*0.02
  when salary >10000 and salary <=15000 then salary*0.03
  when salary > 15000 then salary*0.05
  else 0
end;
```

name	age	salary	bonus
John Doe	25	6000	120.00
Jane Smith	30	7000	140.00
Bob Johnson	22	15000	450.00
Alice Brown	28	10000	200.00
Charlie Davis	35	75000	3750.00