

## Assignment-2

Customer	
Customer_Id	Customer_Name
1	John
2	Smith
3	Ricky
4	Walsh
5	Stefen
6	Fleming
7	Thomson
8	David

Product		
Product_Id	Product_Name	Product_Price
1	Television	19000
2	DVD	3600
3	Washing Machine	7600
4	Computer	35900
5	Ipod	3210
6	Panasonic Phone	2100
7	Chair	360
8	Table	490
9	Sound System	12050
10	Home Theatre	19350

Order		
Order_Id	Customer_Id	Ordered_Date
1	4	10-Jan-05
2	2	10-Feb-06
3	3	20-Mar-05
4	3	10-Mar-06
5	1	5-Apr-07
6	7	13-Dec-06
7	6	13-Mar-08
8	6	29-Nov-04
9	5	13-Jan-05
10	1	12-Sep-2007

Order_Details			
Order_Detail_Id	Order_Id	Product_Id	Quantity
1	1	3	1
2	1	2	3
3	2	10	2
4	3	7	10
5	3	4	2
6	3	5	4
7	4	3	1
8	5	1	2
9	5	2	1
10	6	5	1
11	7	6	1
12	8	10	2
13	8	3	1
14	9	10	3
15	10	1	1

- 1) Fetch **all the** Customer Details along with the product names that the customer has ordered.

```

Oracle SQL*Plus
File Edit Search Options Help
SQL> select c.customer_id,c.customer_name,o.order_id,d.quantity,p.product_name
2  from customer c
3  join order1 o on c.customer_id=o.customer_id
4  join order_details d on o.order_id=d.order_id
5  join product p on d.product_id=p.product_id;

CUSTOMER_ID  CUSTOMER_NAME      ORDER_ID  QUANTITY  PRODUCT_NAME
-----
1 John              10         1  Television
1 John              5          2  Television
1 John              5          1  DVD
4 Walsh             1          3  DVD
6 Fleming           8          1  Washing machine
3 Ricky             4          1  Washing machine
4 Walsh             1          1  Washing machine
3 Ricky             3          2  Computer
7 Thomson           6          1  Ipod
3 Ricky             3          4  Ipod
6 Fleming           7          1  Panasonic Phone

CUSTOMER_ID  CUSTOMER_NAME      ORDER_ID  QUANTITY  PRODUCT_NAME
-----
3 Ricky              3          10  Chair
5 Stefen            9          3  Home Theatre
6 Fleming           8          2  Home Theatre
2 Smith             2          2  Home Theatre

15 rows selected.

```

- 2) Fetch Order\_Id, Ordered\_Date, Total Price of the order (product price\*qty).

```

Oracle SQL*Plus
File Edit Search Options Help
SQL> select o.order_id,o.ordered_date,sum(d.quantity*p.product_price) as total_price
2   from order1 o
3   join order_details d on o.order_id=d.order_id
4   join product p on d.product_id=p.product_id
5   group by o.order_id,o.ordered_date;

  ORDER_ID ORDERED_D TOTAL_PRICE
-----
3 20-MAR-05      88240
7 13-MAR-08      2100
9 13-JAN-05     58050
10 12-DEC-07     19000
2 10-FEB-06     38700
8 29-NOV-04     46300
1 10-JAN-05     18400
4 10-MAR-06      7600
6 13-DEC-06      3210
5 05-APR-07     41600

10 rows selected.

```

3) Fetch the Customer Name, who has not placed any order

```

SQL> select customer_name from customer
2   where customer_id not in (select customer_id from order1);

CUSTOMER_NAME
-----
David

```

4) Fetch the Product Details without any order(purchase)

```

select p.*
from prod p
left join orderdet od on od.prod_id=p.prod_id
where od.orderdet_id is null;

```

```

Query 1
1 * select p.*
2   from prod p
3   left join orderdet od on od.prod_id=p.prod_id
4   where od.orderdet_id is null;

Result Grid
prod_id  prod_name  prod_price
-----
8       Table      490
9       Sound System 12050

```

5) Fetch the Customer name along with the total Purchase Amount

Oracle SQL\*Plus

File Edit Search Options Help

```
SQL> select c.customer_name,sum(p.product_price*d.quantity) as total from customer c,product p,order
1 o,order_details d
2 where o.order_id=d.order_id and c.customer_id=o.customer_id and d.product_id=p.product_id
3 group by customer_name;
```

CUSTOMER_NAME	TOTAL
John	60600
Thomson	3210
Fleming	48400
Stefen	58050
Ricky	95840
Walsh	18400
Smith	38700

7 rows selected.

6) Fetch the Customer details, who has placed the first and last order

```
select c.customer_name,max(o.order_date) as Last_order_date,min(o.order_date) as
first_order_date
from cust c,ordered o where c.customer_id=o.customer_id
group by c.customer_name
order by first_order_date limit 1;
```

SQL Developer

Limit to 50000 rows

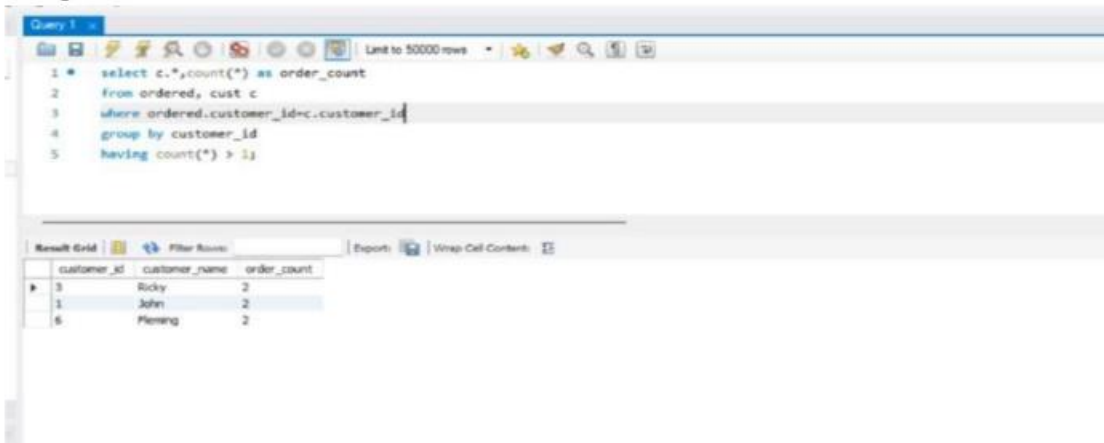
```
1 * select c.customer_name,max(o.order_date) as Last_order_date,min(o.order_date) as first_order_date
2 from cust c,ordered o
3 where c.customer_id=o.customer_id
4 group by c.customer_name
5 order by first_order_date
6 limit 1;
```

customer_name	Last_order_date	first_order_date
Fleming	2008-03-13	2004-11-29

7) Fetch the customer details , who has placed more number of orders

```
select c.*,count(*) as order_count
from ordered, cust c
where ordered.customer_id=c.customer_id
group by customer_id
having count(*) > 1;
```

**Output:**



The screenshot shows a SQL query editor with the following query:

```
1 * select c.*,count(*) as order_count
2 from ordered, cust c
3 where ordered.customer_id=c.customer_id
4 group by customer_id
5 having count(*) > 1;
```

Below the query, the 'Result Grid' shows the following data:

customer_id	customer_name	order_count
3	Ricky	2
1	John	2
6	Pleming	2

- 8) Fetch the customer details, who has placed multiple orders in the same year
- ```
select c.*, count(*) as order_count, year(order_date) as order_year
from ordered,cust c
where c.customer_id=ordered.customer_id
group by customer_id, year(order_date) having count(*) > 1;
```

**Output:**



The screenshot shows a SQL query editor with the following query:

```
1 * select c.*, count(*) as order_count, year(order_date) as order_year
2 from ordered,cust c
3 where c.customer_id=ordered.customer_id
4 group by customer_id, year(order_date) having count(*) > 1;
```

Below the query, the 'Result Grid' shows the following data:

| customer_id | customer_name | order_count | order_year |
|-------------|---------------|-------------|------------|
| 1           | John          | 2           | 2007       |

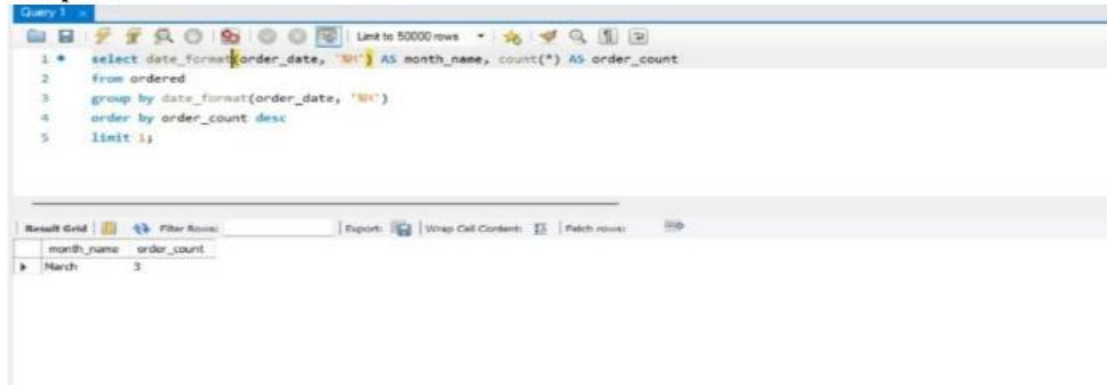
- 9) Fetch the name of the month, in which more number of orders has been placed

```

select date_format(order_date, '%M') as month_name, count(*) as order_count from
ordered
group by date_format(order_date, '%M')
order by order_count desc
limit 1;

```

**Output:**



10) Fetch the maximum priced **Ordered Product**

```

SQL> select product_name, product_price
2   from product
3   where product_price = (select max(product_price)
4     from product);

```

| PRODUCT_NAME | PRODUCT_PRICE |
|--------------|---------------|
| Computer     | 35900         |