

## ASSIGNMENT 2 (Kruthika K J)

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

```
SELECT DISTINCT c.Customer_Id,c.Customer_name,p.product_name from customer c
```

```
join orders o on c.Customer_Id=o.Customer_Idjoin order_details od
on o.Order_Id=od.order_id join product p on od.product_id=p.product_id
ORDER by c.Customer_Id;
```

Customer_Id	Customer_name	product_name
1	John	Television
1	John	DVD
2	Smith	Home Theatre
3	Ricky	Chair
3	Ricky	Computer
3	Ricky	Ipod
3	Ricky	Washing Machine
4	Walsh	Washing Machine
4	Walsh	DVD
5	Stefen	Home Theatre
6	Fleming	Panasonic Phone
6	Fleming	Home Theatre
6	Fleming	Washing Machine
7	Thomson	Ipod

- 2) Fetch Order\_Id, Ordered\_Date, Total Price of the order (product price\*qty).  
**select o.order\_Id, o.Ordered\_Date,sum(p.Product\_Price\* od.Quantity) as total\_price from  
orders o join order\_details od on o.Order\_Id=od.Order\_Id join product p on  
od.Product\_Id=p.Product\_Id GROUP by o.Order\_Id,o.Ordered\_Date  
order by o.Order\_Id;**

order_Id	Ordered_Date	total_price
1	2005-01-10	18400
2	2006-02-10	38700
3	2005-03-20	88240
4	2006-03-10	7600
5	2007-04-05	41600
6	2006-12-13	3210
7	2008-03-13	2100
8	2004-11-29	46300
9	2005-01-13	58050
10	2007-12-12	19000

- 3) Fetch the Customer Name, who has not placed any order  
**select c.customer\_name,c.Customer\_Id from customer c  
where not EXISTS(SELECT o.customer\_id FROM orders o where  
o.Customer\_Id=c.Customer\_Id)**

customer_name	Customer_Id
David	8

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

```
select p.* from product p where not exists
select o.Product_Id from order_details o where o.Product_Id=p.Product_Id)
```

product_id [PK] integer	product_name character varying (100)	product_price numeric (10,2)
8	Table	490.00
9	Sound System	12050.00

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

```
select c.customer_name, sum(p.Product_Price* od.Quantity) as total_purchase_amt
from customer c
join orders o on o.customer_id=c.customer_id
join order_details od on o.order_id= od.order_id
join product p on od.product_id=p.product_id
group by c.customer_id
```

customer_name character varying (50)	total_purchase_amt numeric
Walsh	18400.00
Fleming	48400.00
Smith	38700.00
Ricky	95840.00
Stefen	58050.00
Thomson	3210.00
John	60600.00

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

```
select o.ordered_date as first_order, c.customer_name from orders o
join customer c
on o.customer_id=c.customer_id where o.ordered_date =
(select max(ordered_date) from orders) or o.ordered_date=(select min(ordered_date)
from orders)
```

first_order date	customer_name character varying (50)
2004-11-29	Fleming
2008-03-13	Fleming

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

```
select c.customer_id,c.customer_name ,count(o.order_id) as order_count from customer c
join orders o on c.customer_id=o.customer_id
group by c.customer_id,c.customer_name
order by order_count desc limit 1
```

customer_id [PK] integer	customer_name character varying (50)	order_count bigint
6	Fleming	2

- 8) Fetch the customer details, who has placed multiple orders in the same year

```
select c.* from customer c
join orders o
on c.customer_id=o.customer_id
group by c.customer_id,extract (year from o.ordered_date)
having count(o.order_id)>1 ;
```

customer_id [PK] integer	customer_name character varying (50)
1	John

- 9) Fetch the name of the month, in which more number of orders has been placed
- ```
select to_char(o.ordered_date, 'Month') AS month_name,
extract(month from o.ordered_date) AS month_number, count(o.order_id) AS
order_count from Orders o
group by to_char(o.ordered_date, 'Month'), extract(month from o.ordered_date)
order by order_count desc limit 1;
```

| month_name<br>text | month_number<br>numeric | order_count<br>bigint |
|--------------------|-------------------------|-----------------------|
| March              | 3                       | 3                     |

- 10) Fetch the maximum priced Ordered Product
- ```
select p.product_name,p.product_price from product p
join order_details od on p.product_id = od.product_id
group by p.product_name,p.product_price
order by p.product_price desc limit 1
```

product_name character varying (100)	product_price numeric (10,2)
Computer	35900.00