

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	product_name	product_price
[PK] integer	character varying (100)	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	total_purchase_amt
character varying (50)	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

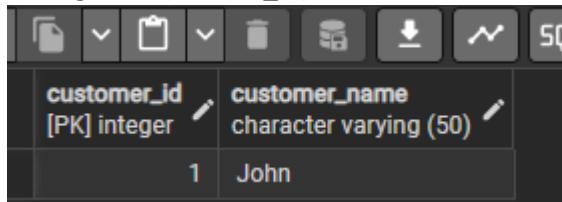
- 7) Fetch the customer details , who has placed more number of orders

```
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 text	month_number numeric	order_count 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