ASSIGNMENT 2 (MANEESH S SHETTY)

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_Id join order_details od on o.Order_Id =od.order_id join product p on od.product_id=p.Product_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_amount from orders o join order_details od on o.Order_Id=od.Order_Id join product p on p.product_id=od.Product_Id group by o.Order_Id ;

order_id	ordered_Date	total_amount
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_Id, c.customer_name from customer c left join orders o on c.Customer_Id=o.Customer_Id GROUP by c.Customer_id HAVING count(o.Order_Id)=0;

Customer_Id	customer_name
8	David

4) Fetch the Product Details without any order(purchase)
select p.product_name from product p
where not EXISTS
(SELECT od.product_id from order_details od where p.Product_Id = od.Product_Id);

product_name
Table
Sound System

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

select c.customer_name ,sum(p.product_price *od.quantity)
from customer c join orders o on c.customer_id = o.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	sum(p.product_price *od.quantity)
John	60600
Smith	38700
Ricky	95840
Walsh	18400
Stefen	58050
Fleming	48400
Thomson	3210

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

SELECT c.customer_name, o.Ordered_Date from customer c
join orders o on c.Customer_Id=o.Customer_Id
WHERE o.Ordered_Date = (SELECT MAX(Ordered_Date) FROM orders) or
o.Ordered_Date = (SELECT Min(Ordered_Date) FROM orders)

customer_name	Ordered_Date
Fleming	2008-03-13
Fleming	2004-11-29

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

SELECT c.* ,count(o.Order_Id)
from customer c join orders o on c.Customer_Id= o.customer_id
group by c.Customer_id
having count(o.Order_Id)= (select max(count_Order_Id) from (SELECT
count(order_id) as count_Order_Id from orders GROUP by Customer_Id)t);

Customer_Id	Customer_Name	count(o.Order_Id)
1	John	2
3	Ricky	2
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	Customer_Name
1	John

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

select monthname(ordered_date) as month_name from orders GROUP by month(ordered_date)
order by count(order_id) desc limit 1;

month_name
March

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
order by p.Product_Price DESC limit 1;

product_name	product_price
Computer	35900