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-Dep-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.

```
SELECT   c.Customer_Id,  c.Customer_Name,  p.Product_Name
FROM  Customer c
JOIN  Order 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;
```

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  Order 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;
```

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

```
SELECT c.Customer_Name
FROM  Customer c
LEFT JOIN  Order o ON c.Customer_Id = o.Customer_Id
WHERE  o.Order_Id IS NULL;
```

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

```
SELECT  P.Product_Name, P.Product_Price
FROM Product P
LEFT JOIN  Order_Details OD ON P.Product_Id = OD.Product_Id
WHERE  OD.Order_Detail_Id IS NULL;
```

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

```
SELECT c.Customer_Name, SUM(p.Product_Price * od.Quantity) AS Total_Purchase_Amount
FROM Customer c, Order o , Order_Details od , Product p
WHERE c.Customer_Id = o.Customer_Id, o.Order_Id = od.Order_Id ,  od.Product_Id =
p.Product_Id
GROUP BY  c.Customer_Name;
```

OR

```
SELECT
   c.Customer_Name,
   SUM(p.Product_Price * od.Quantity) AS Total_Purchase_Amount
FROM
   Customer c
JOIN
   Order 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_Name;
```

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

```
SELECT
   C.Customer_Name,
   MIN(O.Ordered_Date) AS First_Order_Date,
   MAX(O.Ordered_Date) AS Last_Order_Date
FROM
   Customer C
JOIN
   Order O ON C.Customer_Id = O.Customer_Id
GROUP BY
   C.Customer_Name;
```

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

```
SELECT
   C.Customer_Name,
   COUNT(O.Order_Id) AS Number_of_Orders
FROM  Customer C
JOIN
   Order O ON C.Customer_Id = O.Customer_Id
GROUP BY
   C.Customer_Name
ORDER BY
   Number_of_Orders DESC
LIMIT 1;
```

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

```
SELECT
   C.Customer_Name,
   YEAR(O.Ordered_Date) AS Order_Year,
   COUNT(O.Order_Id) AS Number_of_Orders
FROM
   Customer C
JOIN
   Order O ON C.Customer_Id = O.Customer_Id
GROUP BY
   C.Customer_Name, Order_Year
HAVING
   COUNT(O.Order_Id) > 1;
```

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

```
SELECT MONTHNAME(o.Ordered_Date) AS Month_Name, COUNT(o.Order_Id) AS
Number_Of_Orders
FROM  Order o
GROUP BY  Month_Name
ORDER BY Number_Of_Orders DESC
LIMIT 1;
```

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

```
SELECT P.Product_Name, MAX(P.Product_Price) AS Max_Price
FROM Product P, Order_Details OD
WHERE P.Product_Id = OD.Product_Id
GROUP BY P.Product_Name;
```