

ASSIGNMENT

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

—creating a customer table—

```
create table Cust_Table(
Cid integer primary key,CName text not null);
```

—creating product table—

```
create table Product_Table(
Pid integer primary key, PName text not null, Product_price integer not null);
```

—creating order table—

```
create table Order_Table(
Oid integer primary key, Cid integer, Ordered_date date not null,
foreign key(Cid)references Cust_Table(Cid));
```

—creating order details table—

```
create table Order_Details(
Orderdetails_id integer primary key, Oid integer, Pid integer,
Quantity integer not null,
foreign key(Oid)references Order_Table(Oid),
foreign key(Pid)references Product_Table(Pid));
```

—inserting values into customer table—

```
insert into Cust_Table values(1,'John');
insert into Cust_Table values(2,'Smith');
insert into Cust_Table values(3,'Ricky');
insert into Cust_Table values(4,'Walsh');
insert into Cust_Table values(5,'Stefen');
```

```
insert into Cust_Table values(6,'Fleming');
insert into Cust_Table values(7,'Thomson');
insert into Cust_Table values(8,'David');
```

–inserting values into product table–

```
insert into Product_Table values(1,'Television',19000);
insert into Product_Table values(2,'DVD',3600);
insert into Product_Table values(3,'Washing Machine',7600);
insert into Product_Table values(4,'Computer',35900);
insert into Product_Table values(5,'Ipod',3210);
insert into Product_Table values(6,'Panasonic Phone',2100);
insert into Product_Table values(7,'Chair',360);
insert into Product_Table values(8,'Table',490);
insert into Product_Table values(9,'Sound System',120500);
insert into Product_Table values(10,'Home Theatre',19350);
```

–inserting values into order table–

```
insert into Order_Table values(1,4, 2005-01-05);
insert into Order_Table values(2,2,2006-02-10);
insert into Order_Table values(3,3,2005-03-20);
insert into Order_Table values(4,3,2006-03-10);
insert into Order_Table values(5,1,2007-04-05);
insert into Order_Table values(6,7,2006-12-13);
insert into Order_Table values(7,6,2008-03-13);
insert into Order_Table values(8,6,2004-11-29);
insert into Order_Table values(9,5,2005-01-13);
insert into Order_Table values(10,1,2007-12-12);
```

–inserting values into order_details table–

```
insert into Order_Details values(1,1,3,1);
insert into Order_Details values(2,1,2,3);
insert into Order_Details values(3,2,10,10);
insert into Order_Details values(4,3,7,10);
insert into Order_Details values(5,3,4,2);
insert into Order_Details values(6,3,5,4);
insert into Order_Details values(7,4,3,1);
insert into Order_Details values(8,5,1,2);
insert into Order_Details values(9,5,2,1);
insert into Order_Details values(10,6,5,1);
insert into Order_Details values(12,8,10,2);
insert into Order_Details values(13,8,3,1);
insert into Order_Details values(14,9,10,3);
insert into Order_Details values(15,10,1,1);
```

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

```
SELECT ct.CName,pt.PName
FROM Cust_Table ct
INNER JOIN Order_Table ot ON ct.Cid=ot.Cid
INNER JOIN Order_Details od ON ot.Oid=od.Oid
INNER JOIN Product_Table pt ON od.Pid=pt.Pid;
```

2)Fetch Order_Id, Ordered_Date, Total Price of the order (product price*qty).

```
SELECT ot.Oid, ot.Ordered_date, (pt.Product_price*od.Quantity) AS Total_Price FROM
Order_Table ot
INNER JOIN Order_Details od ON ot.Oid=od.Oid
INNER JOIN Product_Table pt ON od.Pid=pt.Pid;
```

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

```
SELECT ct.CName
FROM Cust_Table ct
LEFT JOIN Order_Table ot ON ct.Cid=ot.Cid
WHERE ot.Cid IS NULL;
```

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

```
SELECT pt.PName
FROM Product_Table pt
LEFT JOIN Order_Details od ON pt.Pid=od.Pid
WHERE od.Pid IS NULL;
```

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

```
SELECT ct.CName, SUM(pt.Product_price*od.Quantity) AS Total_Purchase
FROM Cust_Table ct
INNER JOIN Order_Table ot ON ct.Cid=ot.Cid
INNER JOIN Order_Details od ON ot.Oid=od.Oid
INNER JOIN Product_Table pt ON od.Pid=pt.Pid
GROUP BY ct.CName;
```

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

```
SELECT ct.CName, ot.Oid, ot.Ordered_date
FROM Cust_Table ct
```

```
INNER JOIN Order_Table ot ON ct.Cid=ot.Cid
WHERE ot.Oid IN (SELECT MIN(Oid) FROM Order_Table)
OR ot.Oid IN (SELECT MAX(Oid)
FROM Order_Table);
```

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

```
SELECT ct.CName, COUNT(ot.Oid) AS Number_of_Orders
FROM Cust_Table ct
INNER JOIN Order_Table ot ON ct.Cid=ot.Cid
GROUP BY ct.CName
ORDER BY Number_of_Orders DESC
LIMIT 1;
```

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

```
SELECT ct.CName, ot.Ordered_date
FROM Cust_Table ct
INNER JOIN Order_Table ot ON ct.Cid=ot.Cid
GROUP BY ct.CName, YEAR(ot.Ordered_date)
HAVING COUNT(*) > 1;
```

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

```
SELECT MONTHNAME(ot.Ordered_date) AS Month, COUNT(*) AS Number_of_Orders
FROM Order_Table ot
GROUP BY MONTHNAME(ot.Ordered_date)
ORDER BY Number_of_Orders DESC
LIMIT 1;
```

10)Fetch the maximum priced Ordered Product

```
SELECT pt.PName
FROM Product_Table pt
INNER JOIN Order_Details od ON pt.Pid=od.Pid
GROUP BY pt.PName
ORDER BY pt.Product_price DESC
LIMIT 1;
```