
ASSIGNMENT-03

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

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

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

```
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));
```

```
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');
```

```
insert into Product_Table values(1,'Television',19000);  
insert into Product_Table values(2,'DVD',3600);  
insert into Product_Table values(3,'Wasing 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);
```

```

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);

```

```

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;
```
