ASSIGNMENT 2

CUSTOMER

CUSTID	CUSTNAME
1	JOHN
2	SMITH
3	RICKY
4	WALSH
5	STEFEN
6	FLEMING
7	THOMSON
8	DAVID
NULL	NULL

PRODUCT

PID	PNAME	PPRICE
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
NULL	NULL	NULL

ORDERS

OID	CUSTID	ORDATE
1	4	2005-01-10
2	2	2006-02-10
3	3	2005-03-20
4	3	2006-03-10
5	1	2007-04-05
6	7	2006-12-13
7	6	2008-03-13
8	6	2004-11-29
9	5	2005-01-13
10	1	2007-12-12
NULL	NULL	NULL

ORDER_DETAILS

ODID	OID	PID	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
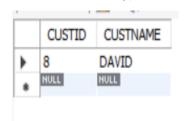   has ordered.

   SELECT CUSTOMER.*,PRODUCT.PNAME FROM ORDER_DETAILS LEFT
   JOIN ORDERS ON ORDER_DETAILS.OID=ORDERS.OID
   LEFT JOIN PRODUCT ON ORDER_DETAILS.PID=PRODUCT.PID LEFT
   JOIN CUSTOMER ON ORDERS.CUSTID=CUSTOMER.CUSTID ORDER BY
   CUSTID;

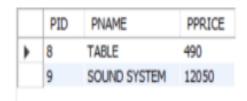| CUSTID	CUSTNAME	PNAME
1	JOHN	TELEVISION
1	JOHN	DVD
1	JOHN	TELEVISION
2	SMITH	HOME THEATRE
3	RICKY	CHAIR
3	RICKY	COMPUTER
3	RICKY	IPOD
3	RICKY	WASHING MACHINE
4	WALSH	WASHING MACHINE
4	WALSH	DVD
5	STEFEN	HOME THEATRE
6	FLEMING	PANASONIC PHONE
6	FLEMING	HOME THEATRE
6	FLEMING	WASHING MACHINE
7	THOMSON	IPOD

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

   SELECTORDERS.OID,ORDERS.ORDATE,(PRODUCT.PPRICE*ORDER_DET
   AILS.QUANTITY)AS TOTALPRICE FROM ORDER_DETAILS LEFT JOIN
   ORDERS ON ORDER_DETAILS.OID=ORDERS.OID LEFT JOIN PRODUCT
   ON ORDER_DETAILS.PID=PRODUCT.PID;

OID	ORDATE	TOTALPRICE
1	2005-01-10	7600
1	2005-01-10	10800
2	2006-02-10	38700
3	2005-03-20	3600
3	2005-03-20	71800
3	2005-03-20	12840
4	2006-03-10	7600
5	2007-04-05	38000
5	2007-04-05	3600
6	2006-12-13	3210
7	2008-03-13	2100
8	2004-11-29	38700
8	2004-11-29	7600
9	2005-01-13	58050
10	2007-12-12	19000

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

   SELECT * FROM CUSTOMER WHERE CUSTID NOT IN(SELECT CUSTID
   FROM ORDERS);

CUSTID	CUSTNAME
8	DAVID
NULL	NULL

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

   SELECT PRODUCT. * FROM PRODUCT LEFT OUTER JOIN
   ORDER_DETAILS ON PRODUCT.PID=ORDER_DETAILS.PID WHERE
   PRODUCT.PID NOT IN
   (SELECT PID FROM ORDER_DETAILS);

PID	PNAME	PPRICE
8	TABLE	490
9	SOUND SYSTEM	12050

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

SELECT CUSTOMER.CUSTNAME,SUM(PRODUCT.PPRICE) FROM
ORDER_DETAILS INNER JOIN ORDERS ON
ORDER_DETAILS.OID=ORDERS.OID
INNER JOIN PRODUCT ON ORDER_DETAILS.PID=PRODUCT.PID INNER
JOIN CUSTOMER ON ORDERS.CUSTID=CUSTOMER.CUSTID
GROUP BY CUSTOMER.CUSTNAME;

CUSTNAME	SUM(PRODUCT.PPRICE)
JOHN	41600
SMITH	19350
RICKY	47070
WALSH	11200
STEFEN	19350
FLEMING	29050
THOMSON	3210

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

SELECT CUSTOMER.*,ORDERS.ORDATE FROM ORDER_DETAILS INNER
JOIN ORDERS ON ORDER_DETAILS.OID=ORDERS.OID INNER JOIN
CUSTOMER ON
ORDERS.CUSTID=CUSTOMER.CUSTID WHERE
ORDERS.ORDATE=(SELECT MAX(ORDATE)FROM ORDERS) OR
ORDERS.ORDATE=(SELECT MIN(ORDERS.ORDATE)FROM
ORDERS)LIMIT 2;

CUSTID	CUSTNAME	ORDATE
6	FLEMING	2008-03-13
6	FLEMING	2004-11-29

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

SELECT CUSTOMER.*,COUNT(*) AS TIMES FROM ORDERS LEFT JOIN
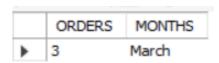CUSTOMER ON ORDERS.CUSTID=CUSTOMER.CUSTID GROUP BY
CUSTOMER.CUSTID

ORDER BY TIMES DESC;

	CUSTID	CUSTNAME	TIMES
▶	1	JOHN	2
	3	RICKY	2
	6	FLEMING	2
	2	SMITH	1
	4	WALSH	1
	5	STEFEN	1
	7	THOMSON	1

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

SELECT CUSTOMER.*,COUNT(*) AS ORDER_S,EXTRACT(YEAR FROM ORDERS.ORDATE)AS YEARS FROM ORDERS INNER JOIN CUSTOMER ON ORDERS.CUSTID=CUSTOMER.CUSTID GROUP BY YEARS,CUSTOMER.CUSTID ORDER BY ORDER_S DESC LIMIT 1;

	CUSTID	CUSTNAME	ORDER_S	YEARS
▶	1	JOHN	2	2007

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

SELECT COUNT(*) AS ORDERS,MONTHNAME(ORDATE) AS MONTHS FROM ORDERS GROUP BY MONTHS ORDER BY ORDERS DESC LIMIT 1;

	ORDERS	MONTHS
▶	3	March

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

SELECT PRODUCT.PNAME,PRODUCT.PPRICE FROM PRODUCT RIGHT JOIN ORDER_DETAILS ON PRODUCT.PID=ORDER_DETAILS.PID GROUP BY PRODUCT.PNAME, PRODUCT.PPRICE ORDER BY PPRICE DESC LIMIT 1;

	PNAME	PPRICE
▶	COMPUTER	35900