

## 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-Dec-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.

```

94  select c.* , p.product_name
95  from customer c join orders o
96  on c.customer_id = o.customer_id
97  join order_details od
98  on o.order_id = od.order_id
99  join product p
100 on od.product_id = p.product_id;

```

Data Output Messages Notifications

	customer_id integer	customer_name character varying (50)	product_name character varying (100)
1	4	Walsh	Washing Machine
2	4	Walsh	DVD
3	2	Smith	Home Theatre
4	3	Ricky	Chair
5	3	Ricky	Computer
6	3	Ricky	Ipod
7	3	Ricky	Washing Machine
8	1	John	Television
9	1	John	DVD
10	7	Thomson	Ipod
11	6	Fleming	Panasonic Phone
12	6	Fleming	Home Theatre
13	6	Fleming	Washing Machine
14	5	Stefen	Home Theatre
15	1	John	Television

- 2) Fetch Order\_Id, Ordered\_Date, Total Price of the order (product price\*qty).

```

102  2.
103  select o.order_id, o.ordered_date, sum(p.product_price*od.quantity)
104  from orders o join order_details od
105  on o.order_id=od.order_id
106  join product p on od.product_id=p.product_id
107  group by o.order_id,o.ordered_date
108  order by o.order_id asc;

```

Data Output Messages Notifications

	order_id [PK] integer	ordered_date date	sum numeric
1	1	2005-01-10	18400.00
2	2	2006-02-10	38700.00
3	3	2005-03-20	88240.00
4	4	2006-03-10	7600.00
5	5	2007-04-05	41600.00
6	6	2006-12-13	3210.00
7	7	2008-03-13	2100.00
8	8	2004-11-29	46300.00
9	9	2005-01-13	58050.00
10	10	2007-12-12	19000.00

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

```

110 3.
111 select c.customer_name
112 from customer c left join orders o
113 on c.customer_id=o.customer_id
114 where o.order_id is null;

```

Data Output Messages Notifications

A screenshot of a database management system interface. At the top, there are tabs for "Data Output", "Messages", and "Notifications". Below the tabs is a toolbar with various icons. A results grid is displayed, showing one row of data. The first column is labeled "customer\_name" and contains the value "David". The second column is labeled "character varying (50)" with a lock icon.

	customer_name character varying (50)
1	David

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

```

116 4.
117 select p.*
118 from product p left join order_details od
119 on p.product_id=od.product_id
120 where od.order_detail_id is null;

```

Data Output Messages Notifications

A screenshot of a database management system interface. At the top, there are tabs for "Data Output", "Messages", and "Notifications". Below the tabs is a toolbar with various icons. A results grid is displayed, showing two rows of data. The columns are labeled "product\_id [PK] integer", "product\_name character varying (100)", and "product\_price numeric (10,2)". The first row has product\_id 8, product\_name "Table", and product\_price 490.00. The second row has product\_id 9, product\_name "Sound System", and product\_price 12050.00.

	product_id [PK] integer	product_name character varying (100)	product_price numeric (10,2)
1	8	Table	490.00
2	9	Sound System	12050.00

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

```

122 5.
123 select c.*, sum(p.product_price*od.quantity)
124 from customer c join orders o
125 on c.customer_id=o.customer_id
126 join order_details od on o.order_id=od.order_id
127 join product p on od.product_id=p.product_id
128 group by c.customer_id;

```

Data Output Messages Notifications

A screenshot of a database management system interface. At the top, there are tabs for "Data Output", "Messages", and "Notifications". Below the tabs is a toolbar with various icons. A results grid is displayed, showing seven rows of data. The columns are labeled "customer\_id [PK] integer", "customer\_name character varying (50)", and "sum numeric". The rows show the total purchase amount for each customer: Walsh (18400.00), Fleming (48400.00), Smith (38700.00), Ricky (95840.00), Stefen (58050.00), Thomson (3210.00), and John (60600.00).

	customer_id [PK] integer	customer_name character varying (50)	sum numeric
1	4	Walsh	18400.00
2	6	Fleming	48400.00
3	2	Smith	38700.00
4	3	Ricky	95840.00
5	5	Stefen	58050.00
6	7	Thomson	3210.00
7	1	John	60600.00

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

```
130 6.  
131 select * from customer  
132 where customer_id in (select customer_id from orders  
133     where ordered_date = (select max(ordered_date) from orders)  
134     or ordered_date = (select min(ordered_date) from orders));
```

Data Output Messages Notifications

	customer_id [PK] integer	customer_name character varying (50)
1	6	Fleming

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

```
136 7.  
137 select c.* , count(o.order_id) from customer c  
138 join orders o on c.customer_id=o.customer_id  
139 group by c.customer_id  
140 having count(o.order_id)=  
141     (select max(count_order)  
142         from(select count(order_id) as count_order  
143             from orders group by customer_id)t);
```

Data Output Messages Notifications

	customer_id [PK] integer	customer_name character varying (50)	count bigint
1	6	Fleming	2
2	3	Ricky	2
3	1	John	2

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

```
145 8.  
146 select c.* from customer c  
147 join orders o on c.customer_id=o.customer_id  
148 group by c.customer_id, extract(year from o.ordered_date)  
149 having count(o.order_id)>1;
```

Data Output Messages Notifications

	customer_id [PK] integer	customer_name character varying (50)
1	1	John

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

```
151  9.  
152  select to_char(ordered_date,'month') month_name  
153  from orders  
154  group by to_char(ordered_date,'month')  
155  order by count(*) desc limit 1;
```

Data Output Messages Notifications

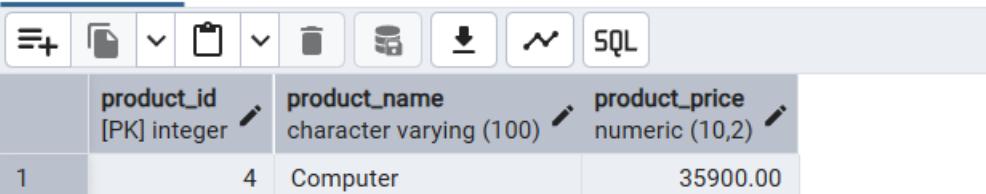


	month_name
1	march

- 10) Fetch the maximum priced Ordered Product

```
157  10.  
158  select p.product_id,p.product_name, p.product_price  
159  from product p join order_details od  
160  on p.product_id=od.product_id  
161  where p.product_price=  
162    (select max(product_price) from product  
163     where product_id in  
164      (select product_id from order_details));
```

Data Output Messages Notifications



	product_id [PK] integer	product_name character varying (100)	product_price numeric (10,2)
1	4	Computer	35900.00