1. **Fetch <u>all the</u> Customer Details along with the product names that the customer has ordered.**

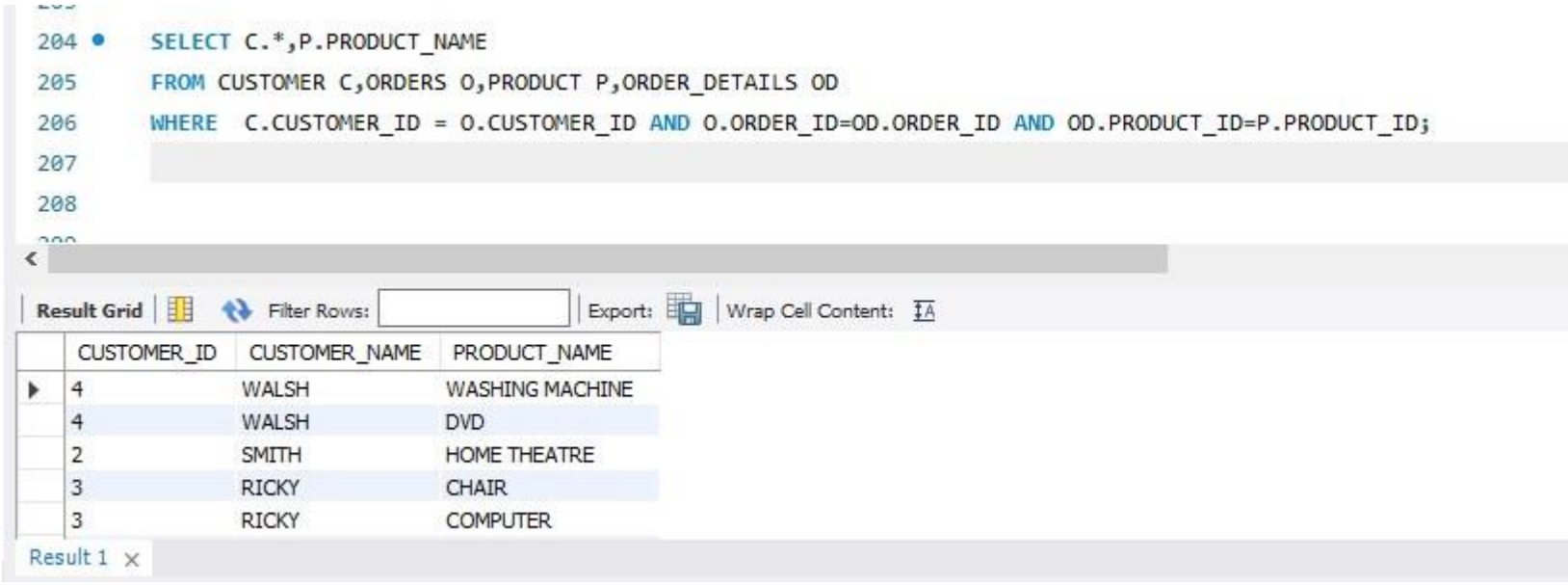
Query:-

```
SELECT C.*,P.PRODUCT_NAME

FROM CUSTOMER C,ORDERS O,PRODUCT P,ORDER_DETAILS OD

WHERE  C.CUSTOMER_ID = O.CUSTOMER_ID AND O.ORDER_ID=OD.ORDER_ID AND
OD.PRODUCT_ID=P.PRODUCT_ID;
```

Output:-

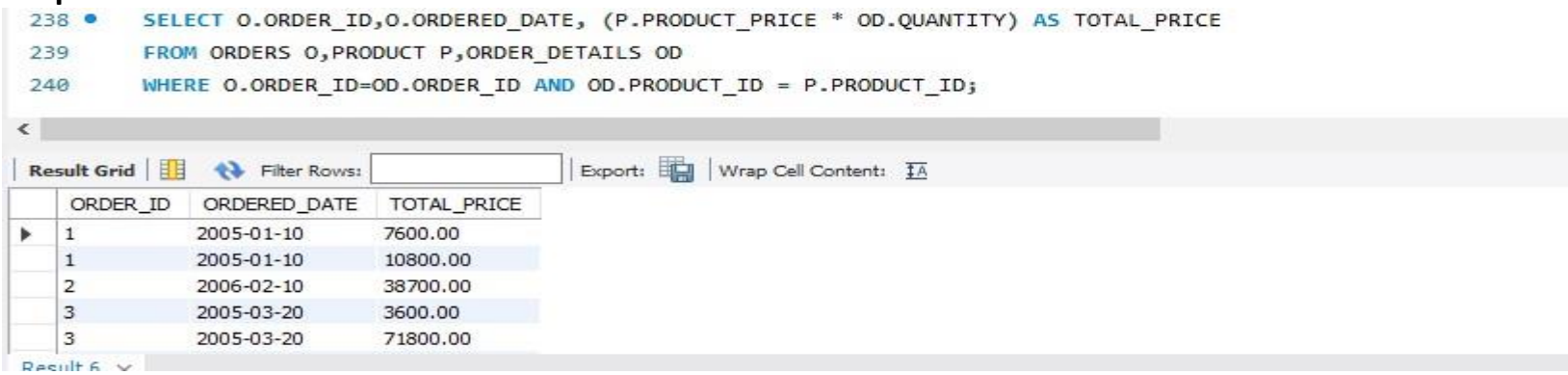


2. Fetch Order_Id, Ordered_Date, Total Price of the order (product price*qty).

Query:-

```
SELECT O.ORDER_ID,O.ORDERED_DATE, (P.PRODUCT_PRICE * OD.QUANTITY) AS TOTAL_PRICE
FROM ORDERS O,PRODUCT P,ORDER_DETAILS OD
WHERE O.ORDER_ID=OD.ORDER_ID AND OD.PRODUCT_ID = P.PRODUCT_ID;
```

Output:-

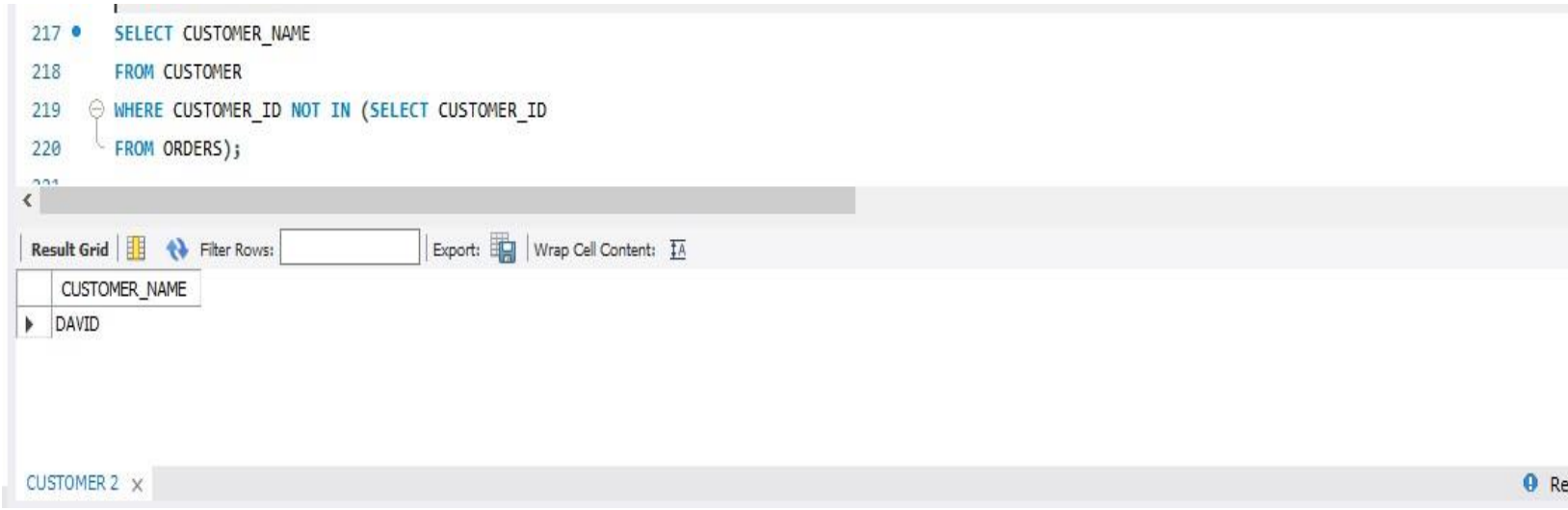


3. Fetch the Customer Name, who has not placed any order.

Query:-

```
SELECT CUSTOMER_NAME
FROM CUSTOMER
WHERE CUSTOMER_ID NOT IN (SELECT CUSTOMER_ID
FROM ORDERS);
```

Output:-

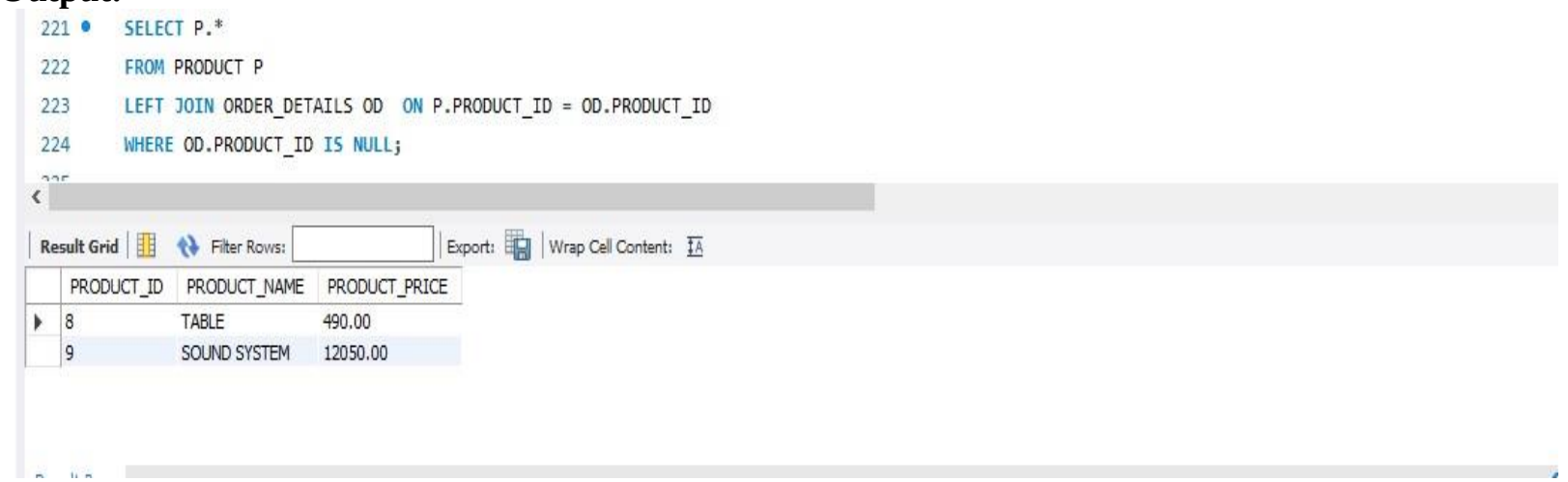


4. Fetch the Product Details without any order(purchase).

Query:-

```
SELECT P.*
FROM PRODUCT P
LEFT JOIN ORDER_DETAILS OD  ON P.PRODUCT_ID = OD.PRODUCT_ID
WHERE OD.PRODUCT_ID IS NULL;
```

Output:-



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

Query:-

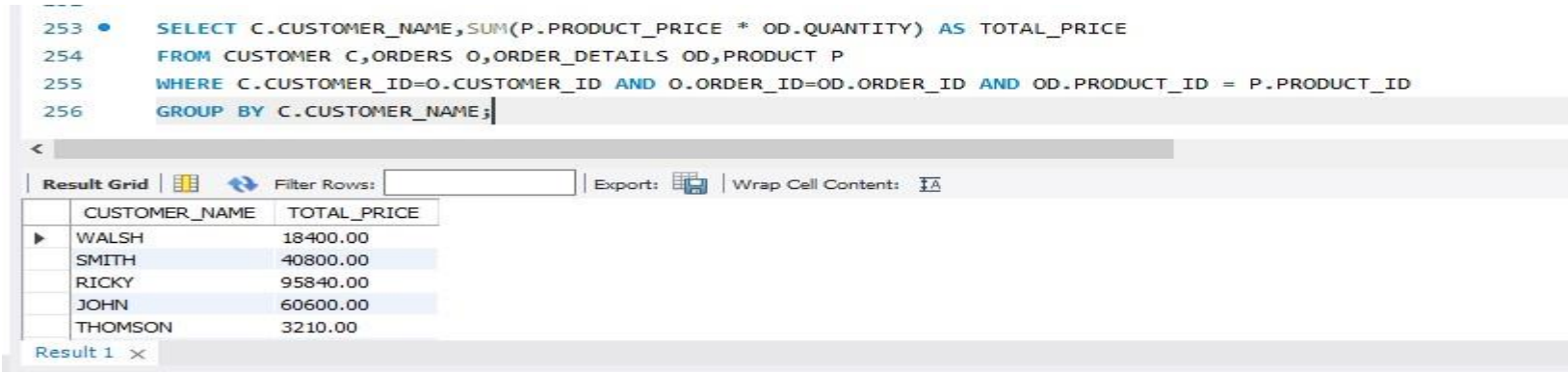
```
SELECT C.CUSTOMER_NAME,SUM(P.PRODUCT_PRICE * OD.QUANTITY) AS TOTAL_PRICE

FROM CUSTOMER C,ORDERS O,ORDER_DETAILS OD,PRODUCT P

WHERE C.CUSTOMER_ID=O.CUSTOMER_ID AND O.ORDER_ID=OD.ORDER_ID AND OD.PRODUCT_ID =
P.PRODUCT_ID

GROUP BY C.CUSTOMER_NAME;
```

Output:-



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

Query:-

```
SELECT C.CUSTOMER_NAME,C.CUSTOMER_ID
FROM CUSTOMER C
JOIN ORDERS O ON C.CUSTOMER_ID = O.CUSTOMER_ID
WHERE O.ORDER_ID = (SELECT MIN(ORDER_ID) FROM ORDERS) OR O.ORDER_ID=(SELECT
MAX(ORDER_ID)
FROM ORDERS);
```

Output:-

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

Query:-

```
SELECT CUSTOMER_NAME,COUNT(ORDER_ID) AS ORDER_COUNT
FROM CUSTOMER C
JOIN ORDERS  O ON C.CUSTOMER_ID=O.CUSTOMER_ID
GROUP BY CUSTOMER_NAME
ORDER BY ORDER_COUNT DESC
LIMIT 1;
```

Output:-

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

Query:-

```
SELECT C.CUSTOMER_ID,C.CUSTOMER_NAME,COUNT(O.ORDER_ID) AS
ORDER_COUNT,YEAR(O.ORDERED_DATE) AS ORDER_YEAR
FROM CUSTOMER C
JOIN ORDERS O ON C.CUSTOMER_ID=O.CUSTOMER_ID
GROUP BY C.CUSTOMER_ID,C.CUSTOMER_NAME,YEAR(O.ORDERED_DATE)
HAVING COUNT(O.ORDER_ID) >1;
```

Output:-

```
266 •  SELECT C.CUSTOMER_ID,C.CUSTOMER_NAME,COUNT(O.ORDER_ID) AS ORDER_COUNT,YEAR(O.ORDERED_DATE) AS ORDER_YEAR
267    FROM CUSTOMER C
268    JOIN ORDERS O ON C.CUSTOMER_ID=O.CUSTOMER_ID
269    GROUP BY C.CUSTOMER_ID,C.CUSTOMER_NAME,YEAR(O.ORDERED_DATE)
270    HAVING COUNT(O.ORDER_ID) >1;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

CUSTOMER_ID	CUSTOMER_NAME	ORDER_COUNT	ORDER_YEAR
1	JOHN	2	2007

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

Query:-

```
SELECT DATE_FORMAT(ORDERED_DATE,'%M') AS MONTH,COUNT(*) AS ORDER_COUNT

FROM ORDERS

GROUP BY month

ORDER BY ORDER_COUNT DESC

LIMIT 1;
```

Output:-

```
241
242 •  SELECT DATE_FORMAT(ORDERED_DATE,'%M') AS MONTH,COUNT(*) AS ORDER_COUNT
243    FROM ORDERS
244    GROUP BY month
245    ORDER BY ORDER_COUNT DESC
246    LIMIT 1;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

MONTH	ORDER_COUNT
March	3

10. Fetch the maximum priced <u>Ordered Product.</u>

Query:-

```
SELECT PRODUCT_NAME,PRODUCT_PRICE

 FROM PRODUCT

 WHERE PRODUCT_PRICE = (SELECT MAX(PRODUCT_PRICE)

FROM PRODUCT);
```

Output:-

```
247
248 •  SELECT PRODUCT_NAME,PRODUCT_PRICE
249     FROM PRODUCT
250     WHERE PRODUCT_PRICE = (SELECT MAX(PRODUCT_PRICE)
251     FROM PRODUCT);
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

PRODUCT_NAME	PRODUCT_PRICE
COMPUTER	35900.00