

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

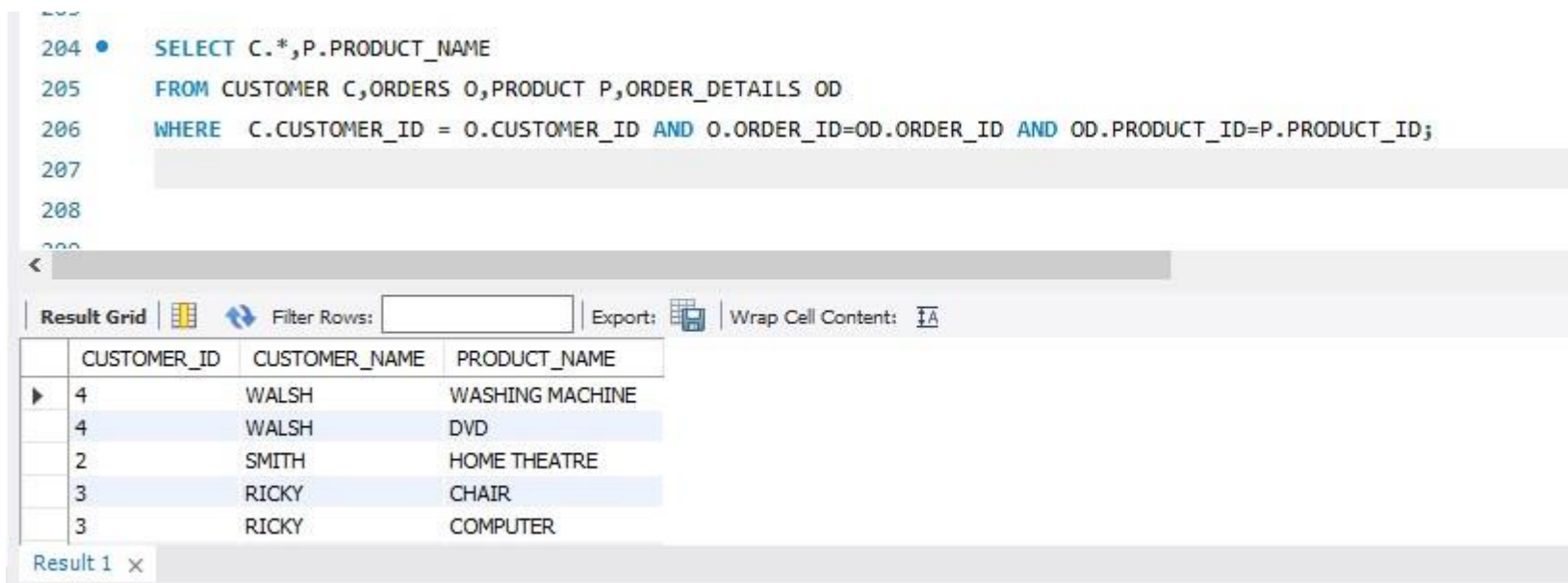
Query:-

```
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:-



```
204 • SELECT C.*,P.PRODUCT_NAME
205 FROM CUSTOMER C,ORDERS O,PRODUCT P,ORDER_DETAILS OD
206 WHERE C.CUSTOMER_ID = O.CUSTOMER_ID AND O.ORDER_ID=OD.ORDER_ID AND OD.PRODUCT_ID=P.PRODUCT_ID;
207
208
209
```

	CUSTOMER_ID	CUSTOMER_NAME	PRODUCT_NAME
▶	4	WALSH	WASHING MACHINE
	4	WALSH	DVD
	2	SMITH	HOME THEATRE
	3	RICKY	CHAIR
	3	RICKY	COMPUTER

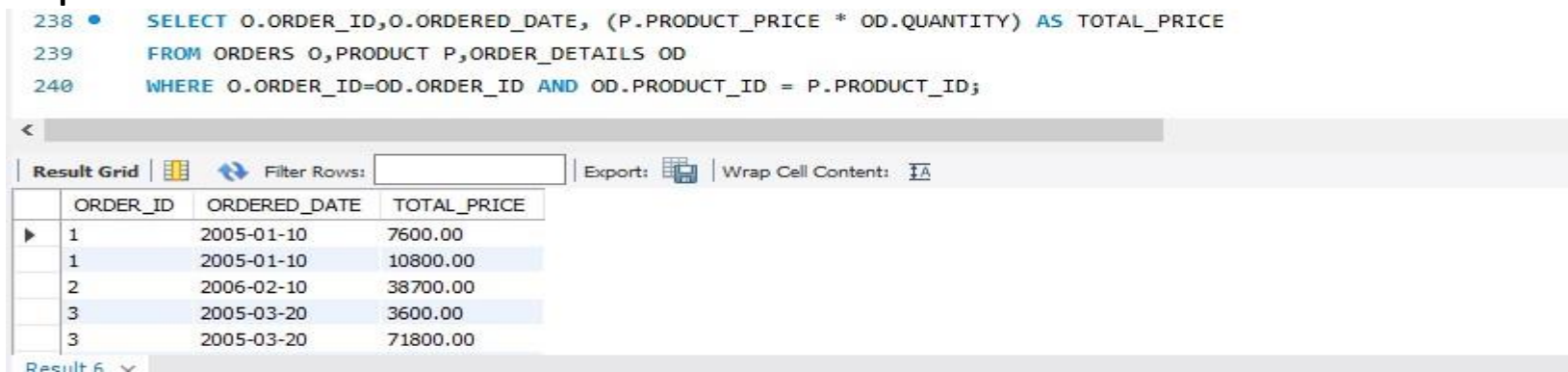
Result 1 x

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:-



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

	ORDER_ID	ORDERED_DATE	TOTAL_PRICE
▶	1	2005-01-10	7600.00
	1	2005-01-10	10800.00
	2	2006-02-10	38700.00
	3	2005-03-20	3600.00
	3	2005-03-20	71800.00

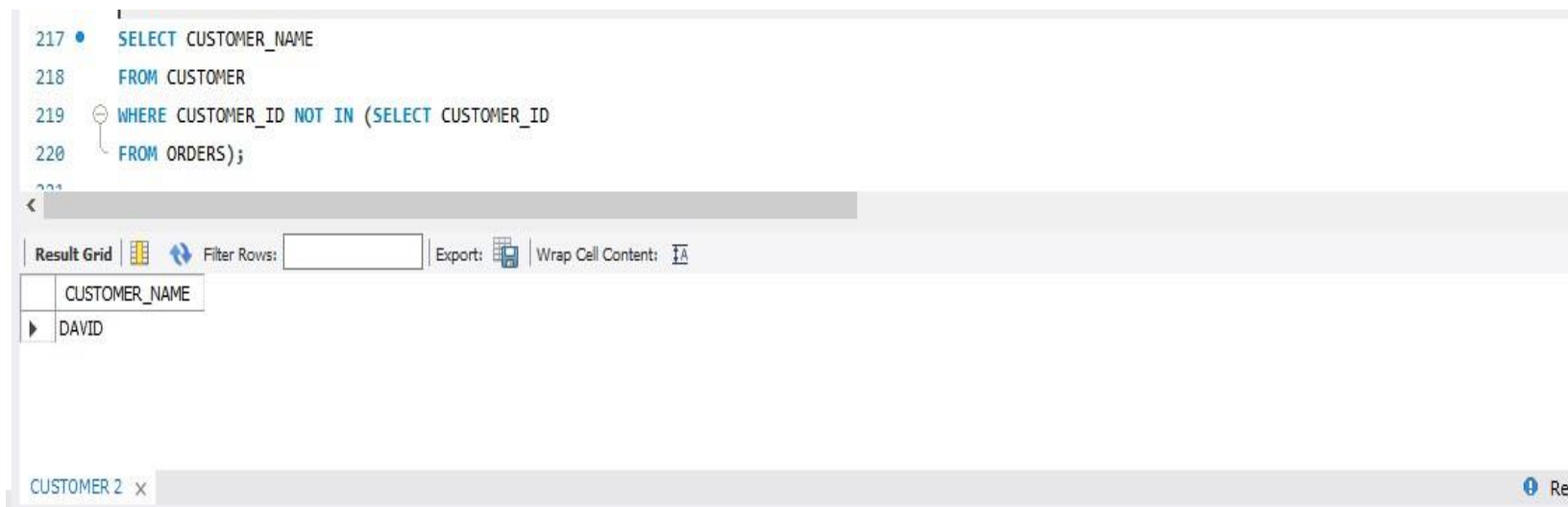
Result 6 v

### 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:-



The screenshot shows a SQL query editor with the following query:

```
217 • SELECT CUSTOMER_NAME
218 FROM CUSTOMER
219 WHERE CUSTOMER_ID NOT IN (SELECT CUSTOMER_ID
220 FROM ORDERS);
```

Below the query editor, the result grid is displayed with the following data:

CUSTOMER_NAME
DAVID


The interface includes a toolbar with options like 'Result Grid', 'Filter Rows', 'Export', and 'Wrap Cell Content'.

### 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:-



The screenshot shows a SQL query editor with the following query:

```
221 • SELECT P.*
222 FROM PRODUCT P
223 LEFT JOIN ORDER_DETAILS OD ON P.PRODUCT_ID = OD.PRODUCT_ID
224 WHERE OD.PRODUCT_ID IS NULL;
```

Below the query editor, the result grid is displayed with the following data:

PRODUCT_ID	PRODUCT_NAME	PRODUCT_PRICE
8	TABLE	490.00
9	SOUND SYSTEM	12050.00

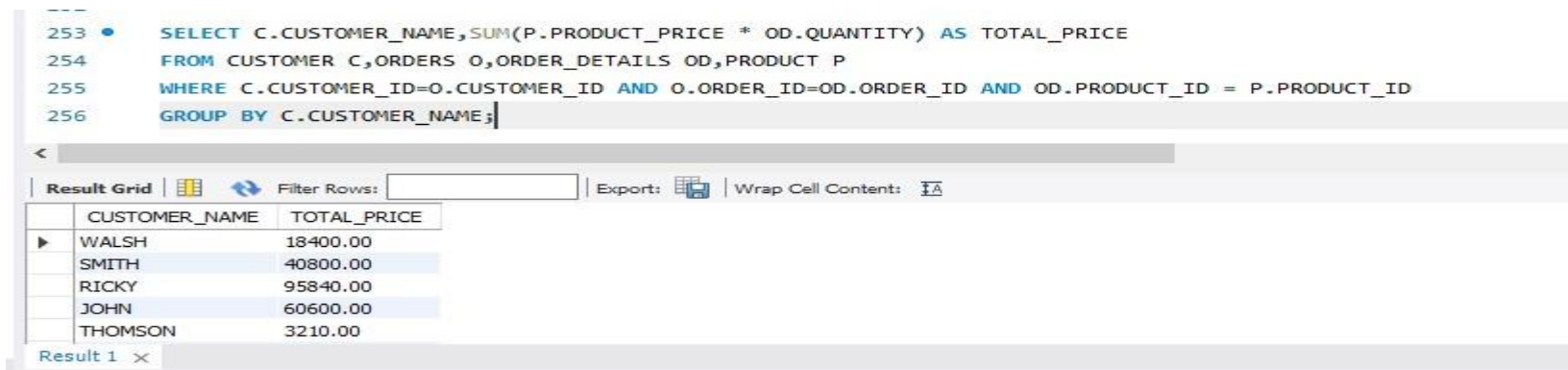
The interface includes a toolbar with options like 'Result Grid', 'Filter Rows', 'Export', and 'Wrap Cell Content'.

## 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:-



The screenshot shows a SQL query editor with the following 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;
```

Below the query editor is a 'Result Grid' showing the output of the query:

CUSTOMER_NAME	TOTAL_PRICE
WALSH	18400.00
SMITH	40800.00
RICKY	95840.00
JOHN	60600.00
THOMSON	3210.00

The result grid is titled 'Result 1'.

## 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:-



The screenshot shows a SQL query editor with the following 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);
```

Below the query editor is a 'Result Grid' showing the output of the query:

CUSTOMER_NAME	CUSTOMER_ID
WALSH	4
JOHN	1

## 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:-

```
258 • SELECT CUSTOMER_NAME,COUNT(ORDER_ID) AS ORDER_COUNT
259 FROM CUSTOMER C
260 JOIN ORDERS O ON C.CUSTOMER_ID=O.CUSTOMER_ID
261 GROUP BY CUSTOMER_NAME
262 ORDER BY ORDER_COUNT DESC
263 LIMIT 1;
```

<

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Fetch rows:

	CUSTOMER_NAME	ORDER_COUNT
▶	RICKY	2

## 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 Ordered Product.

### 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