

THABO LATHA

PRACTICAL 2

QUESTION 1

```
29
30     SELECT
31         ORDERS.ORDERID AS OrderID,
32         ORDERS.ORDERDATE AS OrderDate,
33         CUSTOMERS.CUSTOMERNAME AS CustomerName,
34         PRODUCT.PRODUCTNAME AS ProductName,
35         ORDERS.QUANTITY AS Quantity
36     FROM "FOOD_DATA1"."PUBLIC"."ORDERS"
37     INNER JOIN "FOOD_DATA1"."PUBLIC"."CUSTOMERS"
38         ON ORDERS.CUSTOMERID = CUSTOMERS.CUSTOMERID
39     INNER JOIN "FOOD_DATA1"."PUBLIC"."PRODUCT"
40         ON ORDERS.PRODUCTID = PRODUCT.PRODUCTID;
41
42
43 --QUESTION 2
44
```

Results (just now)

Table Chart

Q 8,000 rows 176ms

#	CUSTOMERID	CUSTOMERNAME	COUNTRY	ORDERID	ORDERDATE
1	1251	Customer_1251	Germany	1	2023-06-10
2	1236	Customer_1236	Australia	2	2023-12-07
3	1170	Customer_1170	Germany	3	2024-10-26
4	1344	Customer_1344	Canada	4	2023-02-17
5	1319	Customer_1319	USA	5	2024-11-06
6	1185	Customer_1185	Australia	6	2024-11-23

QUESTION 2

```
42
43
44
45 --QUESTION 2
46
47     SELECT
48         CUSTOMERS.CUSTOMERID AS CustomerID,
49         CUSTOMERS.CUSTOMERNAME AS CustomerName,
50         CUSTOMERS.COUNTRY AS Country,
51         ORDERS.ORDERID AS OrderID,
52         ORDERS.ORDERDATE AS OrderDate
53     FROM "FOOD_DATA1"."PUBLIC"."CUSTOMERS"
54     INNER JOIN "FOOD_DATA1"."PUBLIC"."ORDERS"
55         ON CUSTOMERS.CUSTOMERID = ORDERS.CUSTOMERID;
56
57
58 --QUESTION 3
```

Results (just now)

Table Chart

Q 8,000 rows 45ms

#	CUSTOMERID	CUSTOMERNAME	COUNTRY	ORDERID	ORDERDATE
1	1251	Customer_1251	Germany	1	2023-06-10
2	1236	Customer_1236	Australia	2	2023-12-07
3	1170	Customer_1170	Germany	3	2024-10-26
4	1344	Customer_1344	Canada	4	2023-02-17
5	1319	Customer_1319	USA	5	2024-11-06
6	1185	Customer_1185	Australia	6	2024-11-23

QUESTION 3

```

SELECT
    CUSTOMERS.CUSTOMERID AS CustomerID,
    CUSTOMERS.CUSTOMERNAME AS CustomerName,
    CUSTOMERS.COUNTRY AS Country,
    ORDERS.ORDERID AS OrderID,
    ORDERS.ORDERDATE AS OrderDate,
    ORDERS.PRODUCTID AS ProductID,
    ORDERS.QUANTITY AS Quantity
FROM "FOOD_DATA1"."PUBLIC"."CUSTOMERS"
LEFT JOIN "FOOD_DATA1"."PUBLIC"."ORDERS"
    ON CUSTOMERS.CUSTOMERID = ORDERS.CUSTOMERID;

```

Results (just now)

Chart

8,000 rows 26ms

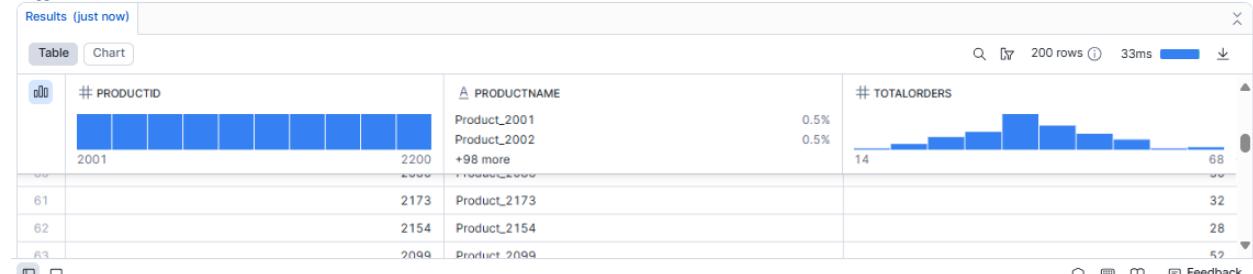
CUSTOMERID	CUSTOMERNAME	COUNTRY	ORDERID	ORDERDATE	PRODUCTID	QUANTITY
1251	Customer_1251	Germany	1	2023-06-10	2014	10
1236	Customer_1236	Australia	2	2023-12-07	2004	5
1170	Customer_1170	Germany	3	2024-10-26	2171	9
1344	Customer_1344	Canada	4	2023-02-17	2007	2
1319	Customer_1319	USA	5	2024-11-06	2061	2
1185	Customer_1185	Australia	6	2024-11-23	2190	3

QUESTION 4

```

71 --QUESTION 4
72
73
74     SELECT
75         PRODUCT.PRODUCTID AS PRODUCTID,
76         PRODUCT.PRODUCTNAME AS PRODUCTNAME,
77         COUNT(ORDERS.ORDERID) AS TOTALORDERS
78     FROM "FOOD_DATA1"."PUBLIC"."PRODUCT"
79     LEFT JOIN "FOOD_DATA1"."PUBLIC"."ORDERS"
80         ON PRODUCT.PRODUCTID = ORDERS.PRODUCTID
81     GROUP BY
82         PRODUCT.PRODUCTID,
83         PRODUCT.PRODUCTNAME;

```



QUESTION 5

```

84
85  --QUESTION 5
86
87  SELECT
88    ORDERS.ORDERID AS ORDERID,
89    ORDERS.ORDERDATE AS ORDERDATE,
90    PRODUCT.PRODUCTID AS PRODUCTID,
91    PRODUCT.PRODUCTNAME AS PRODUCTNAME,
92    PRODUCT.PRICE AS PRICE,
93    ORDERS.QUANTITY AS QUANTITY
94  FROM "FOOD_DATA1"."PUBLIC"."ORDERS"
95  RIGHT JOIN "FOOD_DATA1"."PUBLIC"."PRODUCT"
96  ON ORDERS.PRODUCTID = PRODUCT.PRODUCTID;

```

Results (3 minutes ago)

Table Chart

Q ⏪ 8,000 rows ⓘ 669ms ⚡ ⬇

#	# ORDERID	ORDERDATE	# PRODUCTID	△ PRODUCTNAME	# PRICE	# QUANTITY
1	1	2023-06-10		2014 Product_2014	522	10
2	2	2023-12-07		2004 Product_2004	1996	5
3	3	2024-10-26		2171 Product_2171	76	9
4	4	2023-02-17		2007 Product_2007	156	2
5	5	2024-11-06		2061 Product_2061	1595	2

QUESTION 6

```

100
101  SELECT
102    CUSTOMERS.CUSTOMERID AS CUSTOMERID,
103    CUSTOMERS.CUSTOMERNAME AS CUSTOMERNAME,
104    CUSTOMERS.COUNTRY AS COUNTRY,
105    ORDERS.ORDERID AS ORDERID,
106    ORDERS.ORDERDATE AS ORDERDATE,
107    ORDERS.PRODUCTID AS PRODUCTID,
108    ORDERS.QUANTITY AS QUANTITY,
109  FROM "FOOD_DATA1"."PUBLIC"."ORDERS"
110  RIGHT JOIN "FOOD_DATA1"."PUBLIC"."CUSTOMERS"
111  ON ORDERS.CUSTOMERID = CUSTOMERS.CUSTOMERID;

```

Results (just now)

Table Chart

Q ⏪ 8,000 rows ⓘ 582ms ⚡ ⬇

#	# CUSTOMERID	△ CUSTOMERNAME	△ COUNTRY	# ORDERID	ORDERDATE	# PRODUCTID	# QUANTITY
1	1251	Customer_1251	Germany	1	2023-06-10	2014	10
2	1236	Customer_1236	Australia	2	2023-12-07	2004	5
3	1170	Customer_1170	Germany	3	2024-10-26	2171	9
4	1344	Customer_1344	Canada	4	2023-02-17	2007	2
5	1319	Customer_1319	USA	5	2024-11-06	2061	2
6	1185	Customer_1185	Australia	6	2024-11-23	2190	3
7	1011	Customer_1011	Germany	7	2023-07-29	2099	8
8	1322	Customer_1322	Australia	8	2023-12-06	2078	7
9	1224	Customer_1224	Australia	9	2025-01-25	2043	7

QUESTION 7

```

112    --QUESTION 7
113
114    SELECT
115        CUSTOMERS.CUSTOMERID AS CUSTOMERID,
116        CUSTOMERS.CUSTOMERNAME AS CUSTOMERNAME,
117        CUSTOMERS.COUNTRY AS COUNTRY,
118        ORDERS.ORDERID AS ORDERID,
119        ORDERS.ORDERDATE AS ORDERDATE,
120        ORDERS.PRODUCTID AS PRODUCTID,
121        ORDERS.QUANTITY AS QUANTITY,
122        FROM "FOOD_DATA1"."PUBLIC"."ORDERS"
123        FULL OUTER JOIN "FOOD_DATA1"."PUBLIC"."CUSTOMERS"
124        ON ORDERS.CUSTOMERID = CUSTOMERS.CUSTOMERID;

```

Results (just now)

Table Chart

Q 8,000 rows 24ms

#	CUSTOMERID	CUSTOMERNAME	COUNTRY	ORDERID	ORDERDATE	PRODUCTID	QUANTITY
1	1251	Customer_1251	Germany	1	2023-06-10	2014	10
2	1236	Customer_1236	Australia	2	2023-12-07	2004	5
3	1170	Customer_1170	Germany	3	2024-10-26	2171	9
4	1344	Customer_1344	Canada	4	2023-02-17	2007	2
5	1319	Customer_1319	USA	5	2024-11-06	2061	2
6	1185	Customer_1185	Australia	6	2024-11-23	2190	3
7	1011	Customer_1011	Germany	7	2023-07-29	2099	8
8	1322	Customer_1322	Australia	8	2023-12-06	2078	7

QUESTION 8

```

120
121    --QUESTION 8
122
123    SELECT
124        product.productid AS productid,
125        product.productname AS productname,
126        product.price AS price,
127        orders.orderid AS orderid,
128        orders.orderdate AS orderdate,
129        orders.customerid AS customerid,
130        orders.quantity AS quantity
131        FROM "FOOD_DATA1"."PUBLIC"."PRODUCT" AS product
132        FULL OUTER JOIN "FOOD_DATA1"."PUBLIC"."ORDERS" AS orders
133        ON product.productid = orders.productid;
134
135
136
137
138
139
140

```

Results (just now)

Table Chart

Q 8,000 rows 63ms

#	PRODUCTID	PRODUCTNAME	PRICE	ORDERID	ORDERDATE	CUSTOMERID	QUANTITY
1	2014	Product_2014	522	1	2023-06-10	1251	10
2	2004	Product_2004	1996	2	2023-12-07	1236	5
3	2171	Product_2171	76	3	2024-10-26	1170	9

SELECT

```

ORDERS.ORDERID AS OrderID,
ORDERS.ORDERDATE AS OrderDate,
CUSTOMERS.CUSTOMERNAME AS CustomerName,
PRODUCT.PRODUCTNAME AS ProductName,
ORDERS.QUANTITY AS Quantity
FROM "FOOD_DATA1"."PUBLIC"."ORDERS"

```

```
INNER JOIN "FOOD_DATA1"."PUBLIC"."CUSTOMERS"
ON ORDERS.CUSTOMERID = CUSTOMERS.CUSTOMERID
INNER JOIN "FOOD_DATA1"."PUBLIC"."PRODUCT"
ON ORDERS.PRODUCTID = PRODUCT.PRODUCTID;
```

--QUESTION 2

```
SELECT
CUSTOMERS.CUSTOMERID AS CustomerID,
CUSTOMERS.CUSTOMERNAME AS CustomerName,
CUSTOMERS.COUNTRY AS Country,
ORDERS.ORDERID AS OrderID,
ORDERS.ORDERDATE AS OrderDate
FROM "FOOD_DATA1"."PUBLIC"."CUSTOMERS"
INNER JOIN "FOOD_DATA1"."PUBLIC"."ORDERS"
ON CUSTOMERS.CUSTOMERID = ORDERS.CUSTOMERID;
```

--QUESTION 3

```
SELECT
CUSTOMERS.CUSTOMERID AS CustomerID,
CUSTOMERS.CUSTOMERNAME AS CustomerName,
CUSTOMERS.COUNTRY AS Country,
ORDERS.ORDERID AS OrderID,
ORDERS.ORDERDATE AS OrderDate,
```

```
ORDERS.PRODUCTID AS ProductID,  
ORDERS.QUANTITY AS Quantity  
FROM "FOOD_DATA1"."PUBLIC"."CUSTOMERS"  
LEFT JOIN "FOOD_DATA1"."PUBLIC"."ORDERS"  
ON CUSTOMERS.CUSTOMERID = ORDERS.CUSTOMERID;
```

--QUESTION 4

```
SELECT  
PRODUCT.PRODUCTID AS PRODUCTID,  
PRODUCT.PRODUCTNAME AS PRODUCTNAME,  
COUNT(ORDERS.ORDERID) AS TOTALORDERS  
FROM "FOOD_DATA1"."PUBLIC"."PRODUCT"  
LEFT JOIN "FOOD_DATA1"."PUBLIC"."ORDERS"  
ON PRODUCT.PRODUCTID = ORDERS.PRODUCTID  
GROUP BY  
PRODUCT.PRODUCTID,  
PRODUCT.PRODUCTNAME;
```

--QUESTION 5

```
SELECT  
ORDERS.ORDERID AS ORDERID,  
ORDERS.ORDERDATE AS ORDERDATE,  
PRODUCT.PRODUCTID AS PRODUCTID,  
PRODUCT.PRODUCTNAME AS PRODUCTNAME,  
PRODUCT.PRICE AS PRICE,  
ORDERS.QUANTITY AS QUANTITY
```

```
FROM "FOOD_DATA1"."PUBLIC"."ORDERS"
RIGHT JOIN "FOOD_DATA1"."PUBLIC"."PRODUCT"
ON ORDERS.PRODUCTID = PRODUCT.PRODUCTID;
```

-- QUESTION 6

```
SELECT
CUSTOMERS.CUSTOMERID AS CUSTOMERID,
CUSTOMERS.CUSTOMERNAME AS CUSTOMERNAME,
CUSTOMERS.COUNTRY AS COUNTRY,
ORDERS.ORDERID AS ORDERID,
ORDERS.ORDERDATE AS ORDERDATE,
ORDERS.PRODUCTID AS PRODUCTID,
ORDERS.QUANTITY AS QUANTITY,
FROM "FOOD_DATA1"."PUBLIC"."ORDERS"
RIGHT JOIN "FOOD_DATA1"."PUBLIC"."CUSTOMERS"
ON ORDERS.CUSTOMERID = CUSTOMERS.CUSTOMERID;
```

--QUESTION 7

```
SELECT
CUSTOMERS.CUSTOMERID AS CUSTOMERID,
CUSTOMERS.CUSTOMERNAME AS CUSTOMERNAME,
CUSTOMERS.COUNTRY AS COUNTRY,
ORDERS.ORDERID AS ORDERID,
ORDERS.ORDERDATE AS ORDERDATE,
ORDERS.PRODUCTID AS PRODUCTID,
ORDERS.QUANTITY AS QUANTITY,
FROM "FOOD_DATA1"."PUBLIC"."ORDERS"
```

```
FULL OUTER JOIN "FOOD_DATA1"."PUBLIC"."CUSTOMERS"  
ON ORDERS.CUSTOMERID = CUSTOMERS.CUSTOMERID;
```

--QUESTION 8

SELECT

```
product.productid AS productid,  
product.productname AS productname,  
product.price AS price,  
orders.orderid AS orderid,  
orders.orderdate AS orderdate,  
orders.customerid AS customerid,  
orders.quantity AS quantity  
FROM "FOOD_DATA1"."PUBLIC"."PRODUCT" AS product  
FULL OUTER JOIN "FOOD_DATA1"."PUBLIC"."ORDERS" AS orders  
ON product.productid = orders.productid;
```