

## Practical 2

## Question 1

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SQ

-- Qn 1 List all orders along with the customer name and product name

SELECT OrderID,  
OrderDate,  
CustomerName,  
ProductName,  
Quantity  
FROM orders.orders\_large AS O  
INNER JOIN orders.Customers\_large AS C  
ON O.CustomerID=C.customerID  
INNER JOIN orders.Products\_large AS P  
ON P.ProductID=O.ProductID;

> [See performance \(1\)](#)

Table ▼ +

	<sup>1</sup> <sub>3</sub> OrderID	OrderDate	<sup>A</sup> <sub>C</sub> CustomerName	<sup>A</sup> <sub>C</sub> ProductName	<sup>1</sup> <sub>3</sub> Quantity
1	1	2023-06-10	Customer_1251	Product_2014	10
2	2	2023-12-07	Customer_1236	Product_2004	5
3	3	2024-10-26	Customer_1170	Product_2171	9

Question 2

Just now (2s)

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-- Qn 2 Which customers have placed at least one order?

SELECT C. CustomerID,

C. CustomerName,

C.Country,

O. OrderID,

O.OrderDate

FROM orders.customers\_large AS C

INNER JOIN orders.orders\_large AS O

ON C.CustomerID=O.CustomerID;

> [See performance \(1\)](#)

Table

	123 CustomerID	A <sup>B</sup> C CustomerName	A <sup>B</sup> C Country	123 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	

### Question 3

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09:47 PM (3s)

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-- Qn 3 List all customers and any orders they might have placed. Include customers who
-- not placed any orders.
SELECT C. CustomerID,
       C.CustomerName,
       C.Country,
       O.OrderID,
       O.OrderDate,
       O.ProductID,
       O.Quantity
FROM orders.Customers_large AS C
LEFT JOIN orders.Orders_large AS O
ON C.CustomerID=O.CustomerID;
> See performance \(1\)

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Table ▼

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	1 <sup>2</sup> <sub>3</sub> CustomerID	A <sup>B</sup> <sub>C</sub> CustomerName	A <sup>B</sup> <sub>C</sub> Country	1 <sup>2</sup> <sub>3</sub> OrderID	📅 OrderDate
335	1335	Customer_1335	UK	3638	2023-03-20

Question 4



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-- Question 5 Find all orders along with product details, including any products that might not have been ordered.

SELECT O.OrderID,  
O.OrderDate,  
P.ProductID,  
P.Price,  
O.Quantity  
FROM orders.orders\_large AS O  
RIGHT JOIN orders.products\_large AS P  
ON O.ProductID = P.ProductID;

> See performance (1)

Optimize

Table ▾

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	<sup>1 2 3</sup> OrderID	OrderDate	<sup>1 2 3</sup> ProductID	<sup>1 2 3</sup> Price	<sup>1 2 3</sup> Quantity	
699	3412	2023-08-05	2099	1674	2	
700	3498	2024-01-03	2100	1995	10	

Question 6

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-- Question 6:
-- Which customers have made orders, and include customers even if they have never placed an order.
SELECT C.CustomerID,
       C. CustomerName,
       C.Country,
       O.OrderID,
       O. OrderDate,
       ProductID,
       Quantity
FROM orders.orders_large AS O
RIGHT JOIN orders.customers_large AS C
ON C.CustomerID=O.CustomerID;
```

> [See performance \(1\)](#) Optimize

	<sup>1</sup> <sub>3</sub> CustomerID	<sup>A</sup> <sub>C</sub> CustomerName	<sup>A</sup> <sub>C</sub> Country	<sup>1</sup> <sub>3</sub> OrderID	OrderDate	<sup>1</sup> <sub>3</sub> ProductID	<sup>1</sup> <sub>2</sub>
1	1001	Customer_1001	India	3408	2024-04-15	2100	
2	1002	Customer_1002	Germany	3269	2024-06-07	2058	

### QUESTION 7



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SELECT

P.ProductID,

P.ProductName,

P.Price,

O.OrderID,

O.OrderDate,

O.CustomerID,

O.Quantity

FROM orders.products\_large AS P

FULL OUTER JOIN orders.orders\_large AS O

ON P.ProductID = O.ProductID;

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📊 See performance (1)

Optimize

Table ▼

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	1 <sup>2</sup> <sub>3</sub> ProductID	A <sup>B</sup> <sub>C</sub> ProductName	1 <sup>2</sup> <sub>3</sub> Price	1 <sup>2</sup> <sub>3</sub> OrderID	📅 OrderDate	1 <sup>2</sup> <sub>3</sub> CustomerID	1 <sup>2</sup> <sub>3</sub> Qu.
1	2091	Product_2091	563	785	2024-09-25	1025	
2	2091	Product_2091	563	924	2023-12-20	1167	
3	2091	Product_2091	563	999	2023-06-03	1264	