

Practical 2

Question 1

1 minute ago (34s) 1 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 +

OrderID	OrderDate	CustomerName	ProductName	Quantity
1	2023-06-10	Customer_1251	Product_2014	10
2	2023-12-07	Customer_1236	Product_2004	5
3	2024-10-26	Customer_1170	Product_2171	9

Question 2

Just now (2s) 1 SQL

```
-- 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 +

CustomerID	CustomerName	Country	OrderID	OrderDate
1251	Customer_1251	Germany	1	2023-06-10
1236	Customer_1236	Australia	2	2023-12-07
1170	Customer_1170	Germany	3	2024-10-26
1344	Customer_1344	Canada	4	2023-02-17

Question 3

09:47 PM (3s) 1

```
-- 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 \(1\)
```

Table +

CustomerID	CustomerName	Country	OrderID	OrderDate
335	Customer_1335	UK	3638	2023-03-20

Question 4

2 minutes ago (10s) 1 SQL ⚙️ ⚡ ⌂ ⋮

```
-- Question 4:  
-- List all products and how many times each was ordered (if any).  
  
SELECT P.productID,  
       P.ProductName,  
       COUNT(O.productID) AS TotalOrders  
FROM orders.products_large AS p  
LEFT JOIN orders.orders_large AS o  
ON P.productID=O.productID  
GROUP BY P.productID,  
       P.ProductName
```

See performance (1) Optimize

Table + Q ⌂ ⌂ ⌂

	productID	ProductName	TotalOrders
1	2161	Product_2161	20
2	2006	Product_2006	13
3	2051	Product_2051	10

Question 5

1 minute ago (4s) 1 SQL ⚙️ ⌂ ⋮

```
-- 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 +

	OrderID	OrderDate	ProductID	Price	Quantity
699	3412	2023-08-05	2099	1674	2
700	3498	2024-01-03	2100	1995	10

Question 6

3 minutes ago (4s) 1 SQL ⚙️ ⌂ ⏺

```
-- 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

Table +

	CustomerID	CustomerName	Country	OrderID	OrderDate	ProductID	
1	1001	Customer_1001	India	3408	2024-04-15	2100	
2	1002	Customer_1002	Germany	3269	2024-06-07	2058	

QUESTION 7

1 minute ago (6s) 1 SQL ⚙️ ⚡ ⚡

```
-- List all customers and orders, showing NULLs where customers have not ordered or where orders have no customer info.
SELECT C.CustomerID,
       C.CustomerName,
       C.Country,
       O.OrderID,
       O.OrderDate,
       O.ProductID,
       Quantity
  FROM orders.customers_large AS C
 FULL OUTER JOIN orders.orders_large AS O
    ON C.CustomerID=O.CustomerID;
```

See performance (1) Optimize

Table +

	CustomerID	CustomerName	Country	OrderID	OrderDate	ProductID	Quantity
1	1191	Customer_1191	Germany	18	2023-05-12	2101	1
2	1191	Customer_1191	Germany	499	2023-01-18	2008	1

Question 8

2 minutes ago (4s) 1 SQL ⚙️ ⚡ ⌂ ⋮

```
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;
```

See performance (1)  Optimize

Table + Q Y E □

	ProductID	ProductName	Price	OrderID	OrderDate	CustomerID	Quantity
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	