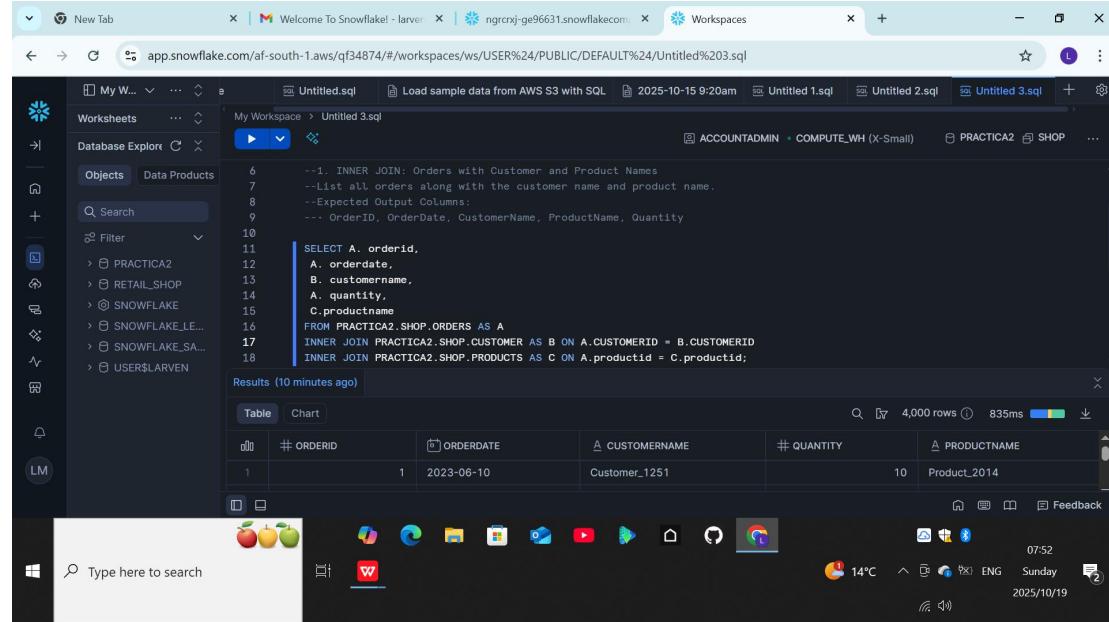


PRACTICAL 2 : SQL JOINS

BRENDA PL MOYO

Question 1



The screenshot shows the Snowflake UI with a SQL worksheet titled "Untitled 3.sql". The code is as follows:

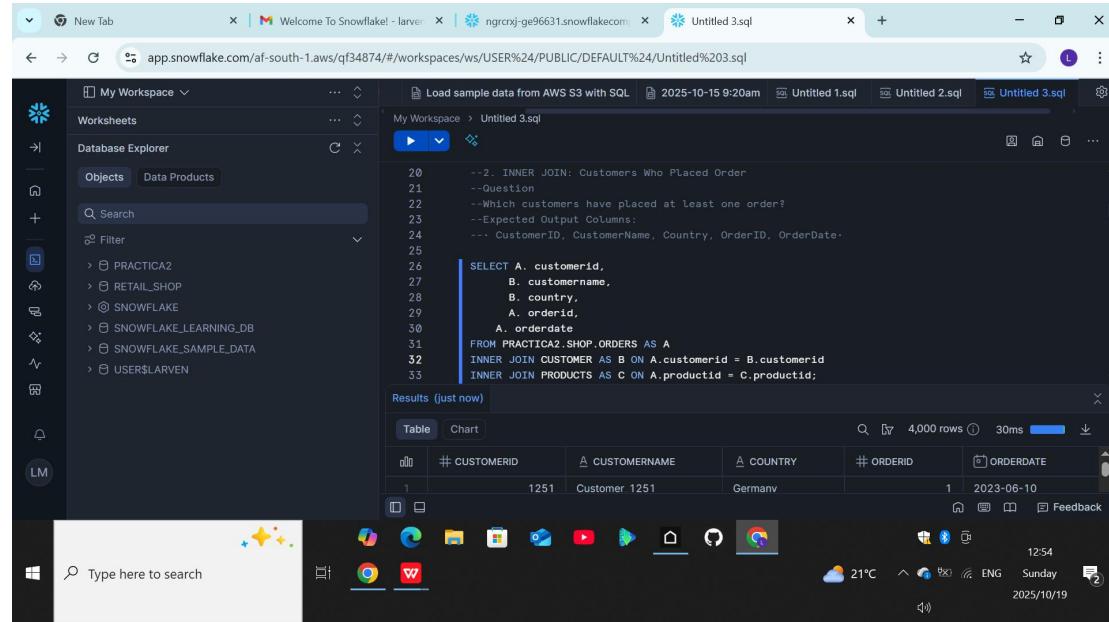
```
--1. INNER JOIN: Orders with Customer and Product Names
--List all orders along with the customer name and product name.
--Expected Output Columns:
--... OrderID, OrderDate, CustomerName, ProductName, Quantity

SELECT A.orderid,
       A.orderdate,
       B.customername,
       A.quantity,
       C.productname
  FROM PRACTICA2.SHOP.ORDERS AS A
 INNER JOIN PRACTICA2.SHOP.CUSTOMER AS B ON A.CUSTOMERID = B.CUSTOMERID
 INNER JOIN PRACTICA2.SHOP.PRODUCTS AS C ON A.productid = C.productid;
```

The results table has columns: ORDERID, ORDERDATE, CUSTOMERNAME, QUANTITY, and PRODUCTNAME. One row is shown:

ORDERID	ORDERDATE	CUSTOMERNAME	QUANTITY	PRODUCTNAME
1	2023-06-10	Customer_1251	10	Product_2014

QUESTION 2



The screenshot shows the Snowflake UI with a SQL worksheet titled "Untitled 3.sql". The code is as follows:

```
--2. INNER JOIN: Customers Who Placed Order
--Question
--Which customers have placed at least one order?
--Expected Output Columns:
--... CustomerID, CustomerName, Country, OrderID, OrderDate

SELECT A.customerid,
       B.customername,
       B.country,
       A.orderid,
       A.orderdate
  FROM PRACTICA2.SHOP.ORDERS AS A
 INNER JOIN CUSTOMER AS B ON A.customerid = B.customerid
 INNER JOIN PRODUCTS AS C ON A.productid = C.productid;
```

The results table has columns: CUSTOMERID, CUSTOMERNAME, COUNTRY, ORDERID, and ORDERDATE. One row is shown:

CUSTOMERID	CUSTOMERNAME	COUNTRY	ORDERID	ORDERDATE
1251	Customer_1251	Germany	1	2023-06-10

Question 3

New Tab | Welcome To Snowflake! - larven | Untitled 3.sql

app.snowflake.com/af-south-1.aws/qf34874/#/workspaces/ws/USER%24/PUBLIC/DEFAULT%24/Untitled%203.sql

My Workspace > Untitled 3.sql

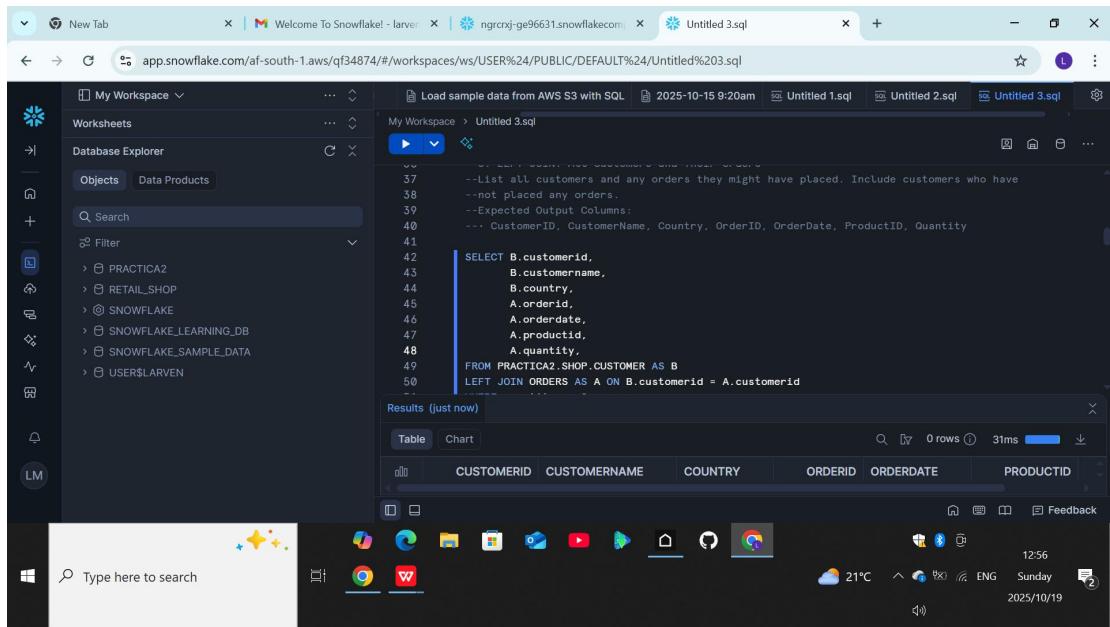
```
--List all customers and any orders they might have placed. Include customers who have  
--not placed any orders.  
--Expected Output Columns:  
--- CustomerID, CustomerName, Country, OrderID, OrderDate, ProductID, Quantity  
  
SELECT B.customerid,  
       B.customername,  
       B.country,  
       A.orderid,  
       A.orderdate,  
       A.productid,  
       A.quantity,  
FROM PRACTICA2.SHOP.CUSTOMER AS B  
LEFT JOIN ORDERS AS A ON B.customerid = A.customerid
```

Results (just now)

CUSTOMERID	CUSTOMERNAME	COUNTRY	ORDERID	ORDERDATE	PRODUCTID

Type here to search

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Question 4

New Tab | Welcome To Snowflake! - larven | Untitled 3.sql

app.snowflake.com/af-south-1.aws/qf34874/#/workspaces/ws/USER%24/PUBLIC/DEFAULT%24/Untitled%203.sql

My Workspace > Untitled 3.sql

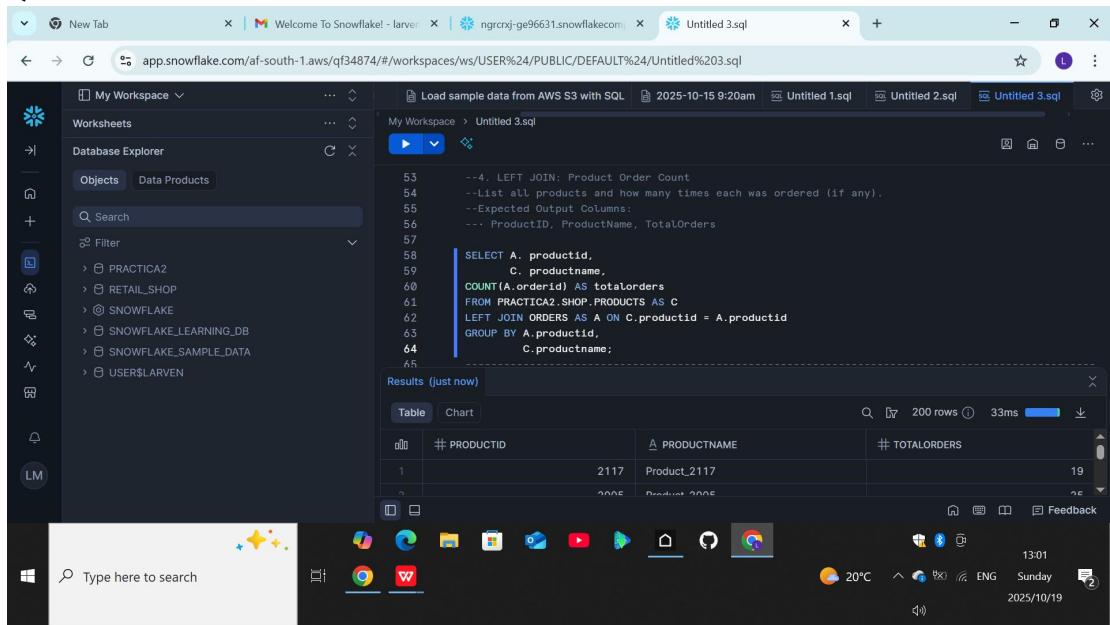
```
--4. LEFT JOIN: Product Order Count  
--List all products and how many times each was ordered (if any).  
--Expected Output Columns:  
--- ProductID, ProductName, TotalOrders  
  
SELECT A.productid,  
       C.productname,  
       COUNT(A.orderid) AS totalorders  
FROM PRACTICA2.SHOP.PRODUCTS AS C  
LEFT JOIN ORDERS AS A ON C.productid = A.productid  
GROUP BY A.productid,  
       C.productname;
```

Results (just now)

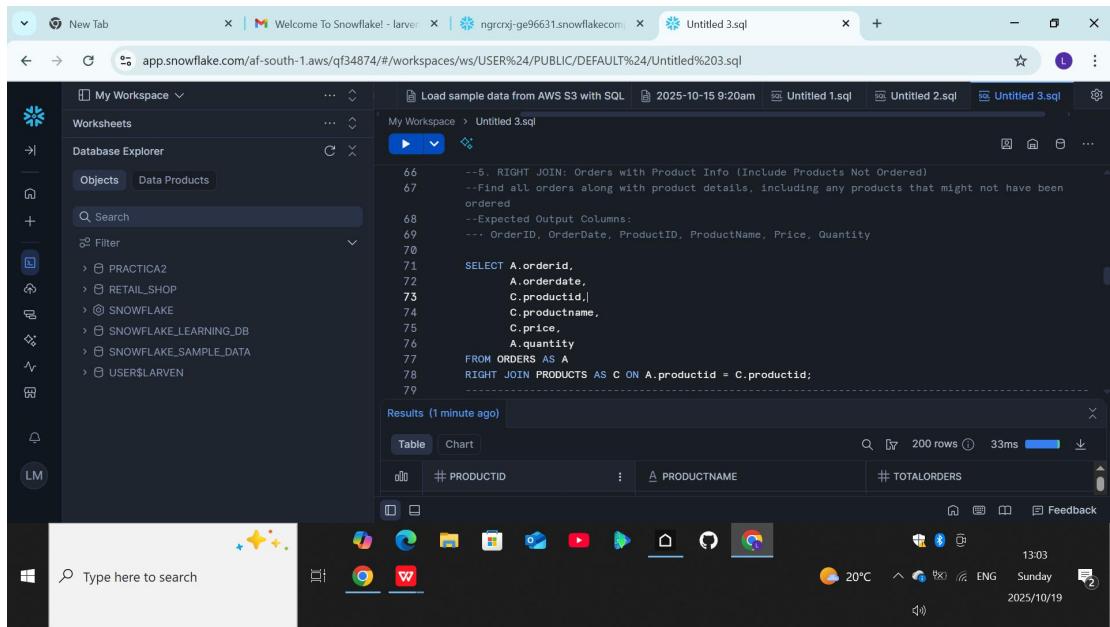
PRODUCTID	PRODUCTNAME	TOTALORDERS
2117	Product_2117	19
2005	Product_2005	

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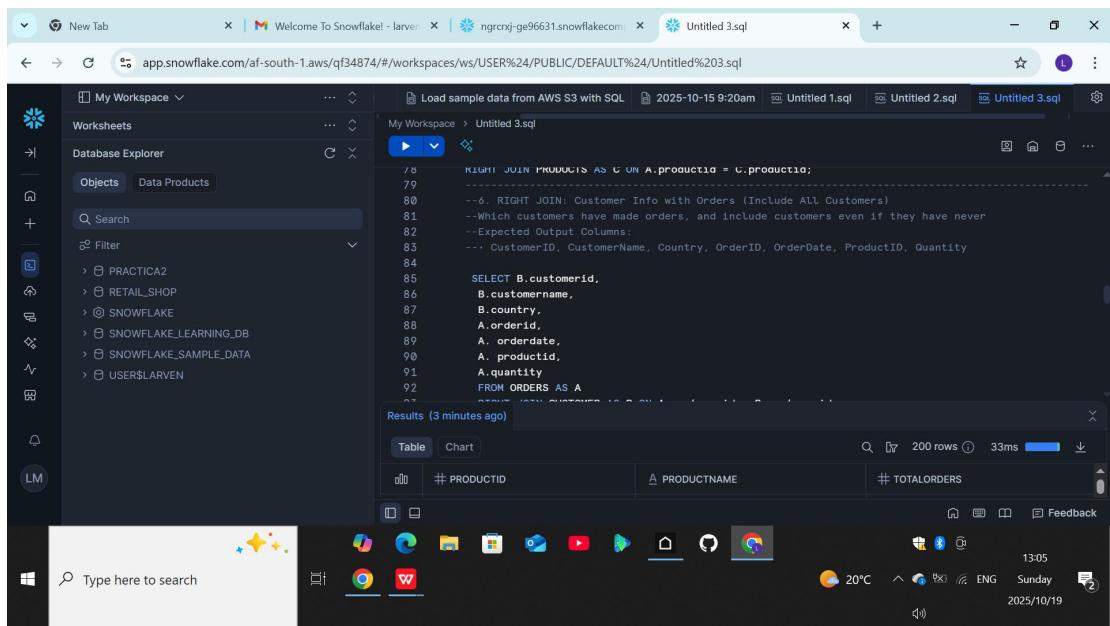
Question 5



```
--5. RIGHT JOIN: Orders with Product Info (Include Products Not Ordered)
--Find all orders along with product details, including any products that might not have been
ordered
--Expected Output Columns:
--- OrderID, OrderDate, ProductID, ProductName, Price, Quantity

SELECT A.orderid,
       A.orderdate,
       C.productid,
       C.productname,
       C.price,
       A.quantity
  FROM ORDERS AS A
  RIGHT JOIN PRODUCTS AS C ON A.productid = C.productid;
```

QUESTION 6



```
--6. RIGHT JOIN: Customer Info with Orders (Include All Customers)
--Which customers have made orders, and include customers even if they have never
ordered
--Expected Output Columns:
--- CustomerID, CustomerName, Country, OrderID, OrderDate, ProductID, Quantity

SELECT B.customerid,
       B.customername,
       B.country,
       A.orderid,
       A.orderdate,
       A.productid,
       A.quantity
  FROM ORDERS AS A
  RIGHT JOIN CUSTOMERS AS B ON A.customerid = B.customerid;
```

QUESTION 7

New Tab | Welcome To Snowflake! - larven | Untitled 3.sql

app.snowflake.com/af-south-1.aws/qf34874/#/workspaces/ws/USER%24/PUBLIC/DEFAULT%24/Untitled%203.sql

My Workspace > Untitled 3.sql

```

96 --List all customers and orders, showing NULLS where customers have not ordered or
97 --where orders have no customer info.
98 ---Expected Output Columns:
99 --- CustomerID, CustomerName, Country, OrderID, OrderDate, ProductID, Quantity
100
101   SELECT B.customerid,
102       B.customername,
103       B.country,
104       A.orderid,
105       A.orderdate,
106       A.productid,
107       A.quantity
108   FROM CUSTOMER AS B
109   FULL OUTER JOIN ORDERS AS A ON A.customerid = B.customerid;

```

Results (just now)

	CUSTOMERID	CUSTOMERNAME	COUNTRY	ORDERID	ORDERDATE	PRODUCTID	QUANTITY
1	1001	Customer_1001	India	1	2023-06-10	2014	

Type here to search

QUESTION 8

New Tab | Welcome To Snowflake! - larven | Untitled 3.sql

app.snowflake.com/af-south-1.aws/qf34874/#/workspaces/ws/USER%24/PUBLIC/DEFAULT%24/Untitled%203.sql

My Workspace > Untitled 3.sql

```

115 --ng product info.
116 --orders are missing product info.
117 --- ProductID, ProductName, Price, OrderID, OrderDate, CustomerID, Quantity
118
119   SELECT C.productid,
120       C.productname,
121       C.price,
122       A.orderid,
123       A.orderdate,
124       A.customerid,
125       A.quantity
126   FROM PRACTICA2.SHOP.PRODUCTS AS C
127   FULL OUTER JOIN ORDERS AS A ON C.productid = A.productid
128   FULL OUTER JOIN CUSTOMER AS B ON A.customerid = B.customerid;

```

Results (just now)

	PRODUCTID	PRODUCTNAME	PRICE	ORDERID	ORDERDATE	CUSTOMERID	QUANTITY
1	2014	Product_2014	522	1	2023-06-10	1251	10

Type here to search