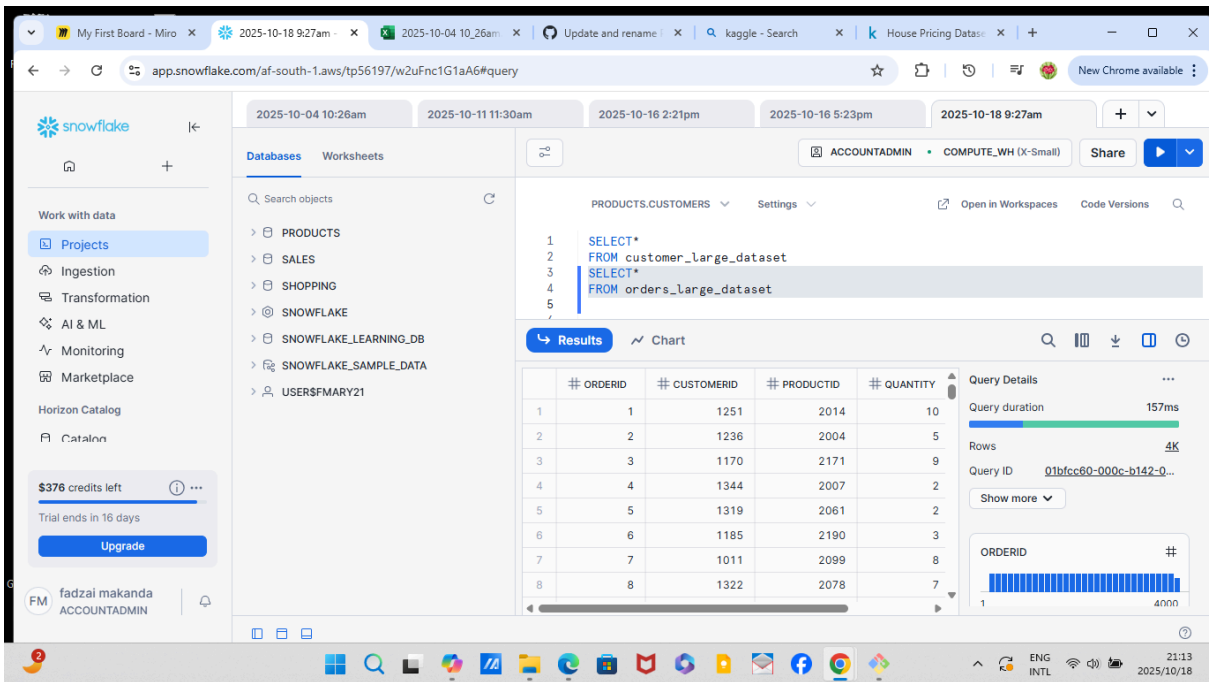
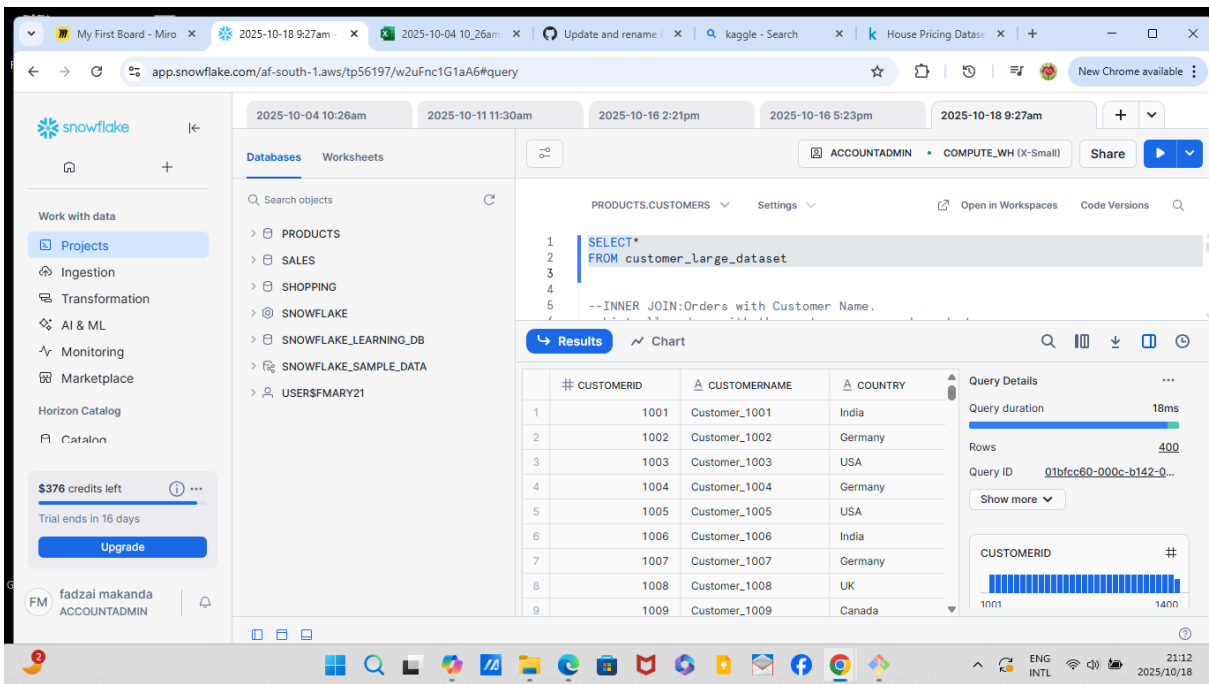


PRACTICAL 2

FADZAI MAKANDA



ORDERS TABLE.



CUSTOMERS TABLE

My First Board - Miro x 2025-10-18 9:27am x 2025-10-04 10:26am x Update and rename x kaggle - Search x House Pricing Data x +

app.snowflake.com/af-south-1.aws/tp56197/w2uFnc1G1aA6#query

2025-10-04 10:26am 2025-10-11 11:30am 2025-10-16 2:21pm 2025-10-16 5:23pm 2025-10-18 9:27am

ACCOUNTADMIN COMPUTE_WH (X-Small) Share

Work with data

- Projects
- Ingestion
- Transformation
- AI & ML
- Monitoring
- Marketplace
- Horizon Catalog
- Catalog

\$376 credits left Trial ends in 16 days Upgrade

FM fadzai makanda ACCOUNTADMIN

Databases Worksheets

Search objects

- PRODUCTS
- SALES
- SHOPPING
- SNOWFLAKE
- SNOWFLAKE_LEARNING_DB
- SNOWFLAKE_SAMPLE_DATA
- USER\$FMARY21

PRODUCTS.CUSTOMERS Settings Open in Workspaces Code Versions

```
--
1 FROM customer_large_dataset
2 SELECT*
3 FROM orders_large_dataset
4 SELECT*
5 FROM product_large_dataset
6
```

Results Chart

	#	PRODUCTID	PRODUCTNAME	PRICE
1		2001	Product_2001	833
2		2002	Product_2002	1558
3		2003	Product_2003	1398
4		2004	Product_2004	1996
5		2005	Product_2005	1146
6		2006	Product_2006	694
7		2007	Product_2007	156
8		2008	Product_2008	811
9		2009	Product_2009	342

Query Details

Query duration 49ms

Rows 200

Query ID 01bfcc61-000c-b142-0...

Show more

PRODUCTID #

2001 2200

21:13 2025/10/18

ORDERS TABLE

My First Board - Miro x 2025-10-18 9:27am x 2025-10-04 10:26am x Update and rename x kaggle - Search x House Pricing Data x +

app.snowflake.com/af-south-1.aws/tp56197/w2uFnc1G1aA6#query

2025-10-04 10:26am 2025-10-11 11:30am 2025-10-16 2:21pm 2025-10-16 5:23pm 2025-10-18 9:27am

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FM fadzai makanda ACCOUNTADMIN

Databases Worksheets

Search objects

- PRODUCTS
- SALES
- SHOPPING
- SNOWFLAKE
- SNOWFLAKE_LEARNING_DB
- SNOWFLAKE_SAMPLE_DATA
- USER\$FMARY21

PRODUCTS.CUSTOMERS Settings Open in Workspaces Code Versions

```
--
14
15 SELECT A.orderid,
16 A.orderdate,
17 B.customername,
18 C.productid,
```

Results Chart

	#	ORDERID	ORDERDATE	CUSTOMERNAME	PRO
1		563	2024-05-09	Customer_1001	
2		571	2024-05-26	Customer_1001	
3		579	2024-06-27	Customer_1001	
4		587	2024-10-07	Customer_1001	
5		595	2024-04-05	Customer_1001	
6		603	2024-07-18	Customer_1001	
7		611	2024-07-09	Customer_1001	
8		619	2023-05-18	Customer_1001	

Query Details

Query duration 44ms

Rows 320M

Query ID 01bfcc62-000c-b142-0...

Show more

21:14 2025/10/18

QUESTION 1

Recycle Bin Google Chrome CapCut Canva Google Sheets Git Bash Fathom Microsoft Edge Zoom Workspaces

My First Board - 2025-10-18 9:27 2025-10-04 10:20 Update and ren kaggle - Search House Pricing Da

app.snowflake.com/af-south-1.aws/tp56197/w2ufnc1G1aA6#query

2025-10-04 10:26am 2025-10-11 11:30am 2025-10-16 2:21pm 2025-10-16 5:23pm 2025-10-18 9:27am

ACCOUNTADMIN COMPUTE_WH (X-Small) Share

PRODUCTS.CUSTOMERS Settings

Open in Workspaces Code Versions

```
15 SELECT A.orderid,
16        A.orderdate,
17        B.customername,
18        C.productid,
19        A.quantity
20 FROM orders_large_dataset AS A
```

Results Chart

	#	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	
7		1011	Customer_1011	Germany	7	2023-07-29	
8		1322	Customer_1322	Australia	8	2023-12-06	
9		1224	Customer_1224	Australia	9	2025-01-25	

Query Details

Query duration 19ms

Rows 4K

Query ID 01bfd045-000c-b142-0...

Show more

CUSTOMERID #

1001 1400

13:50 2025/10/19

QUESTION 2

Recycle Bin Google Chrome CapCut Canva Google Sheets Git Bash Fathom Microsoft Edge Zoom Workspaces

My First Board - 2025-10-18 9:27 2025-10-04 10:20 Update and ren kaggle - Search House Pricing Da

app.snowflake.com/af-south-1.aws/tp56197/w2ufnc1G1aA6#query

2025-10-04 10:26am 2025-10-11 11:30am 2025-10-16 2:21pm 2025-10-16 5:23pm 2025-10-18 9:27am

ACCOUNTADMIN COMPUTE_WH (X-Small) Share

PRODUCTS.CUSTOMERS Settings

Open in Workspaces Code Versions

```
64 FROM CUSTOMER_LARGE_DATASET AS A
65 LEFT JOIN ORDERS_LARGE_DATASET AS B
66 ON A.CUSTOMERID = B.CUSTOMERID
67 LEFT JOIN PRODUCT_LARGE_DATASET AS C
68 ON C.PRODUCTID = A.PRODUCTID
```

Results Chart

	#	CUSTOMERID	CUSTOMERNAME	COUNTRY	#	ORDERID	ORDERDATE	#	PRODUCTID	QUANTITY
1		1251	Customer_1251	Germany	1	2023-06-10		2001	10	
2		1251	Customer_1251	Germany	1	2023-06-10		2002	10	
3		1251	Customer_1251	Germany	1	2023-06-10		2003	10	
4		1251	Customer_1251	Germany	1	2023-06-10		2004	10	
5		1251	Customer_1251	Germany	1	2023-06-10		2005	10	
6		1251	Customer_1251	Germany	1	2023-06-10		2006	10	
7		1251	Customer_1251	Germany	1	2023-06-10		2007	10	
8		1251	Customer_1251	Germany	1	2023-06-10		2008	10	

Query Details

Query duration 805ms

Rows 800K

Query ID 01bfd062-000c-b142-0...

Show more

CUSTOMERID #

1001 1400

14:19 2025/10/19

QUESTION 3

2025-10-04 10:26am 2025-10-11 11:30am 2025-10-16 2:21pm 2025-10-16 5:23pm 2025-10-18 9:27am

ACCOUNTADMIN COMPUTE_WH (X-Small) Share

PRODUCTS.CUSTOMERS Settings

Open in Workspaces Code Versions

```
--4. LEFT JOIN: Product Order Count
--Question:
--List all products and how many times each was ordered (if any).
--Expected Output Columns:
-- ProductID, ProductName, TotalOrders
--(TotalOrders is the count of how many times the product appears in orders)
```

Results Chart

#	PRODUCTID	PRODUCTNAME	TOTALORDERS
1	2171	Product_2171	15
2	2177	Product_2177	20
3	2073	Product_2073	19
4	2089	Product_2089	20
5	2054	Product_2054	24
6	2019	Product_2019	17
7	2190	Product_2190	20
8	2119	Product_2119	22
9	2182	Product_2182	17

Query Details

Query duration 474ms

Rows 200

Query ID 01bfd06e-000c-b142-0...

Show more

PRODUCTID #

2001 2200

14:30 2025/10/19

QUESTION 4 - FADZAI MAKANDA

2025-10-04 10:26am 2025-10-11 11:30am 2025-10-16 2:21pm 2025-10-16 5:23pm 2025-10-18 9:27am

ACCOUNTADMIN COMPUTE_WH (X-Small) Share

PRODUCTS.CUSTOMERS Settings

Open in Workspaces Code Versions

```
LEFT JOIN ORDERS_LARGE_DATASET AS B
ON A.PRODUCTID = B.PRODUCTID
GROUP BY
A.PRODUCTID,
A.PRODUCTNAME;
```

Results Chart

#	PRODUCTID	PRODUCTNAME	TOTALORDERS
1	2171	Product_2171	15
2	2177	Product_2177	20
3	2073	Product_2073	19
4	2089	Product_2089	20
5	2054	Product_2054	24
6	2019	Product_2019	17
7	2190	Product_2190	20
8	2119	Product_2119	22
9	2182	Product_2182	17

Query Details

Query duration 474ms

Rows 200

Query ID 01bfd06e-000c-b142-0...

Show more

PRODUCTID #

2001 2200

14:31 2025/10/19

QUESTION 4 - FADZAI MAKANDA

Query Results:

#	PRODUCTID	PRODUCTNAME	ORDERID	ORDERDATE	QUANTITY	PRICE
1	2014	Product_2014	1	2023-06-10	10	522
2	2004	Product_2004	2	2023-12-07	5	1996
3	2171	Product_2171	3	2024-10-26	9	76
4	2007	Product_2007	4	2023-02-17	2	156
5	2061	Product_2061	5	2024-11-06	2	1595
6	2190	Product_2190	6	2024-11-23	3	1755
7	2099	Product_2099	7	2023-07-29	8	1674
8	2078	Product_2078	8	2023-12-06	7	333
9	2043	Product_2043	9	2025-01-25	7	1947

Query Details: Query duration 615ms, Rows 4K, Query ID 01bfd09a-000c-b142-0...

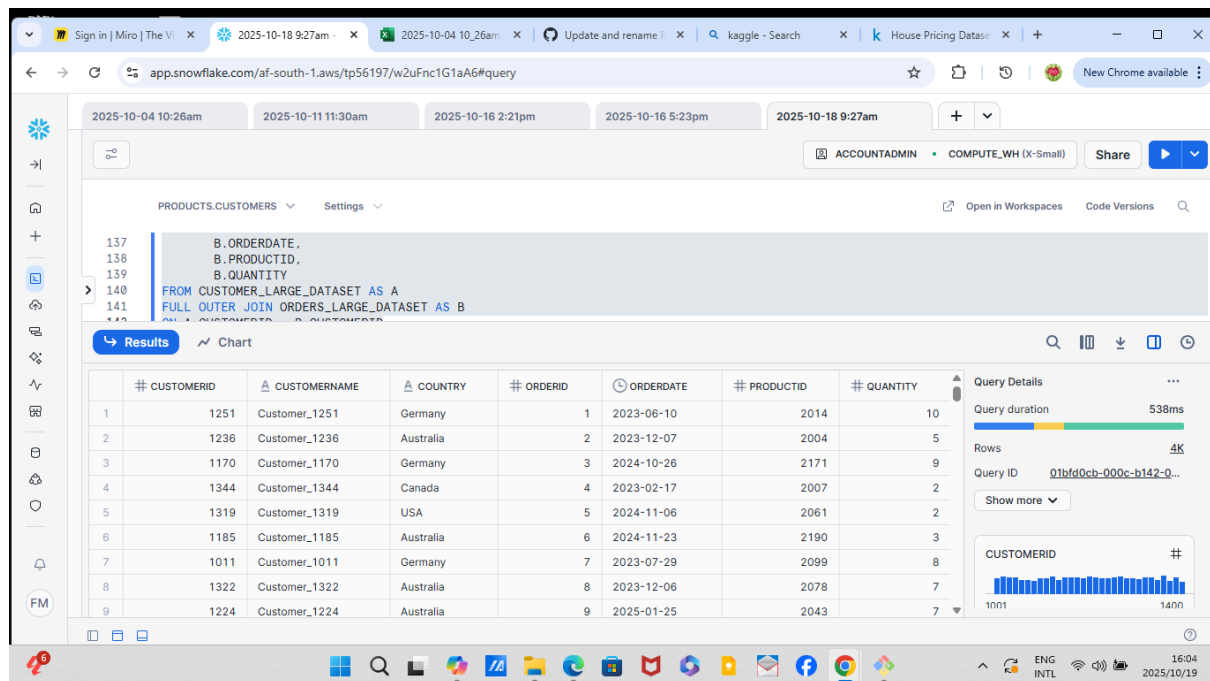
QUESTION 5 - FADZAI MAKANDA

Query Results:

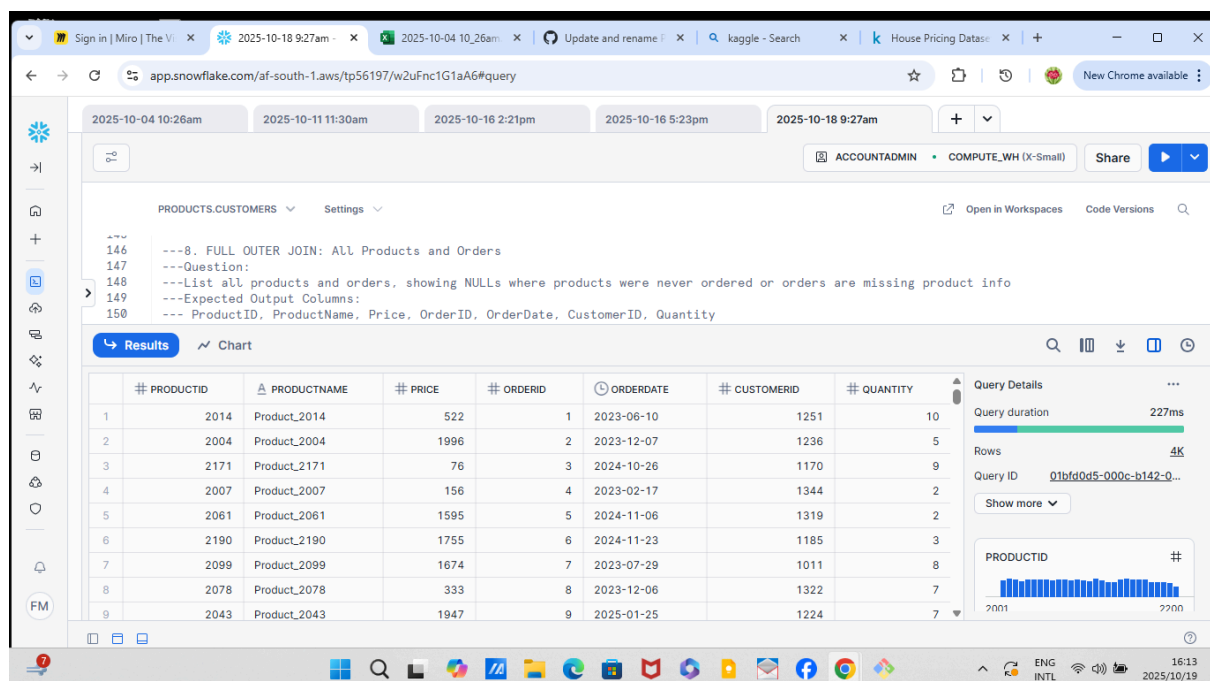
#	CUSTOMERID	CUSTOMERNAME	COUNTRY	ORDERID	ORDERDATE	PRODUCTID	QUANTITY
1	1251	Customer_1251	Germany	1	2023-06-10	2014	10
2	1236	Customer_1236	Australia	2	2023-12-07	2004	5
3	1170	Customer_1170	Germany	3	2024-10-26	2171	9
4	1344	Customer_1344	Canada	4	2023-02-17	2007	2
5	1319	Customer_1319	USA	5	2024-11-06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

Query Details: Query duration 586ms, Rows 4K, Query ID 01bfd0b8-000c-b142-0...

QUESTION 6- FADZAI MAKANDA



QUESTION 7 - FADZAI MAKANDA



QUESTION 8 - FADZAI MAKANDA

```

SELECT*
FROM customer_large_dataset;

```

```

SELECT*
FROM orders_large_dataset;

```

```

SELECT*
FROM product_large_dataset;

```

--INNER JOIN:Orders with Customer Name.
--List all orders with the customer name and product name.
--Expected output columns: OrderID,OrderDate ,CustomerName, ProductName, Quantit

```
SELECT A.orderid,  
       A.orderdate,  
       B.customername,  
       C.productid,  
       A.quantity  
FROM orders_large_dataset AS A  
INNER JOIN customer_large_dataset AS B ON A.customerid = B.customerid  
INNER JOIN product_large_dataset AS C ON C.productid = C.productid
```

--INNER JOIN: customers who placed Orders
--Which customer have placed at least one order.
--Expected output columns : customer_id,Customer_name,Country,Order_id,Order-date

```
SELECT  
  A.CUSTOMERID,  
  A.CUSTOMERNAME,  
  A.COUNTRY,  
  B.ORDERID,  
  B.ORDERDATE  
FROM CUSTOMER_LARGE_DATASET A  
INNER JOIN ORDERS_LARGE_DATASET B  
  ON A.CUSTOMERID = B.CUSTOMERID;
```

```
SELECT  
  A.customerid,  
  A.customername,  
  A.country,  
  B.orderid,  
  B.orderdate  
FROM customer_large_dataset A  
INNER JOIN orders_large_dataset B  
  ON A.customerid = B.customerid  
WHERE B.quantity = 1;
```

--. LEFT JOIN: All Customers and Their Orders
Question:

--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 A.CUSTOMERID,  
       A.CUSTOMERNAME,  
       A.COUNTRY,  
       B.ORDERID,  
       B.ORDERDATE,  
       C.PRODUCTID,  
       B.QUANTITY  
FROM CUSTOMER_LARGE_DATASET AS A  
LEFT JOIN ORDERS_LARGE_DATASET AS B ON A.CUSTOMERID =B .CUSTOMERID  
LEFT JOIN PRODUCT_LARGE_DATASET AS C ON C.PRODUCTID=C.PRODUCTID;
```

--4. LEFT JOIN: Product Order Count

--Question:

--List all products and how many times each was ordered (if any).

--Expected Output Columns:

-- ProductID, ProductName, TotalOrders

--(TotalOrders is the count of how many times the product appears in orders)

```
SELECT  
  A.PRODUCTID,  
  A.PRODUCTNAME,  
  COUNT(B.ORDERID) AS TOTALORDERS  
FROM PRODUCT_LARGE_DATASET AS A  
LEFT JOIN ORDERS_LARGE_DATASET AS B  
  ON A.PRODUCTID = B.PRODUCTID  
GROUP BY  
  A.PRODUCTID,  
  A.PRODUCTNAME;
```

-- 5. RIGHT JOIN: Orders with Product Info (Include Products Not Ordered)

--Question:

--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.PRODUCTID,  
       A.PRODUCTNAME,  
       B.ORDERID,  
       B.ORDERDATE,  
       B.QUANTITY,
```



```
    A.PRICE
FROM PRODUCT_LARGE_DATASET AS A
RIGHT JOIN ORDERS_LARGE_DATASET AS B
ON A.PRODUCTID = B.PRODUCTID;
```

--6. RIGHT JOIN: Customer Info with Orders (Include All Customers)

--Question:

--Which customers have made orders, and include customers even if they have never placed an order.

--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_LARGE_DATASET AS A
RIGHT JOIN CUSTOMER_LARGE_DATASET AS B
    ON A.CUSTOMERID = B.CUSTOMERID;
```

--7. FULL OUTER JOIN: All Customers and All Orders

--Question:

--List all customers and orders, showing NULLs where customers have not ordered or where orders have no customer info.

--Expected Output Columns:

-- CustomerID, CustomerName, Country, OrderID, OrderDate, ProductID, Quantity

```
SELECT A.CUSTOMERID,
    A.CUSTOMERNAME,
    A.COUNTRY,
    B.ORDERID,
    B.ORDERDATE,
    B.PRODUCTID,
    B.QUANTITY
FROM CUSTOMER_LARGE_DATASET AS A
FULL OUTER JOIN ORDERS_LARGE_DATASET AS B
ON A.CUSTOMERID = B.CUSTOMERID
```

---8. FULL OUTER JOIN: All Products and Orders

---Question:

---List all products and orders, showing NULLs where products were never ordered or orders are missing product info

---Expected Output Columns:

--- ProductID, ProductName, Price, OrderID, OrderDate, CustomerID, Quantity

```
SELECT A.PRODUCTID,  
       A.PRODUCTNAME,  
       A.PRICE,  
       B.ORDERID,  
       B.ORDERDATE,  
       B.CUSTOMERID,  
       B.QUANTITY  
FROM PRODUCT_LARGE_DATASET AS A  
FULL OUTER JOIN ORDERS_LARGE_DATASET AS B  
ON A.PRODUCTID = B.PRODUCTID;
```
