

Q1

DatabasesWorksheets

Search objects

PRACTICAL1

PRACTICAL2

RETAIL

SNOWFLAKE

SNOWFLAKE\_LEARNING\_DB

SNOWFLAKE\_SAMPLE\_DATA

STORE

PRACTICAL2.SHOP

Settings

ACCOUNTADMINCOMPUTE\_WH (X-Small)Share

Open in WorkspacesCode Versions

1--1. INNER JOIN: Orders with Customer and Product Names

2--Question:

3--List all orders along with the customer name and product name.

4--Expected Output Columns:

5--- OrderID, OrderDate, CustomerName, ProductName, Quantity

6

7

8Select A.orderid, A.ORDERDATE, B.CUSTOMERNAME, C.PRODUCTNAME, A.QUANTITY

9from practical2.shop.orders\_large AS A

10INNER join practical2.shop.customers\_large AS B on A.customerid=B.CUSTOMERID

11INNER JOIN PRACTICAL2.SHOP.PRODUCTS\_LARGE AS C ON A.PRODUCTID=C.PRODUCTID;

12

ResultsChart

# ORDERIDORDERDATECUSTOMERNAMEPRODUCTNAME# QUANTITY

12023-06-10Customer\_1251Product\_201410

22023-12-07Customer\_1236Product\_20045

32024-10-26Customer\_1170Product\_21719

42023-02-17Customer\_1344Product\_20072

52024-11-06Customer\_1319Product\_20612

62024-11-23Customer\_1185Product\_21903

72023-07-29Customer\_1011Product\_20998

82023-12-06Customer\_1322Product\_20787

92025-01-25Customer\_1224Product\_20437

102023-07-19Customer\_1010Product\_21413

112024-11-21Customer\_1324Product\_20901

122023-06-19Customer\_1248Product\_21156

132023-04-04Customer\_1315Product\_206010

142024-11-26Customer\_1348Product\_21447

152023-02-23Customer\_1310Product\_21055

162024-04-15Customer\_1219Product\_20823

Q2

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Settings

ACCOUNTADMINCOMPUTE\_WH (X-Small)Share

Open in WorkspacesCode Versions

12--2. INNER JOIN: Customers Who Placed Orders

13--Question:

14--Which customers have placed at least one order?

15--Expected Output Columns:

16--- CustomerID, CustomerName, Country, OrderID, OrderDate

17

18select A.customerID, B.CustomerName, B.Country, A.OrderID, A.OrderDate

19FROM ORDERS\_LARGE AS A

20INNER JOIN CUSTOMERS\_LARGE AS B on A.customerid=B.customerid

21Inner Join products\_large AS C ON A.PRODUCTID = C.PRODUCTID

22WHERE QUANTITY>1;

23

ResultsChart

# CUSTOMERIDCUSTOMERNAMECOUNTRY# ORDERIDORDERDATE

11251Customer\_1251Germany12023-06-10

21236Customer\_1236Australia22023-12-07

31170Customer\_1170Germany32024-10-26

41344Customer\_1344Canada42023-02-17

51319Customer\_1319USA52024-11-06

61185Customer\_1185Australia62024-11-23

71011Customer\_1011Germany72023-07-29

81322Customer\_1322Australia82023-12-06

91224Customer\_1224Australia92025-01-25

101010Customer\_1010UK102023-07-19

111248Customer\_1248Germany122023-06-19

121315Customer\_1315Canada132023-04-04

131348Customer\_1348USA142024-11-26

141310Customer\_1310Germany152023-02-23

151219Customer\_1219Germany162024-04-15

161199Customer\_1199USA172024-04-29

Q3

DatabasesWorksheets

Q4

ACCOUNTADMINCOMPUTE\_WH (X-Small)Share

Search objects

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PRACTICAL2.SHOP

Settings

Open in WorkspacesCode Versions

```
22
23 --3. LEFT JOIN: All Customers and Their Orders
24 --Question:
25 --List all customers and any orders they might have placed. Include customers who have
26 --not placed any orders.
27 --Expected Output Columns:
28 --- CustomerID, CustomerName, Country, OrderID, OrderDate, ProductID, Quantity
29
30 select A.customerid, A.customername, A.country, B.orderid, B.orderdate, B.ProductID, B.Quantity
31 from customers_large AS A
32 LEFT join orders_large as B ON A.customerid=B.customerid;
33
```

ResultsChart

	# CUSTOMERID	Δ CUSTOMERNAME	Δ 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
10	1010	Customer_1010	UK	10	2023-07-19	2141	3
11	1324	Customer_1324	India	11	2024-11-21	2090	1
12	1248	Customer_1248	Germany	12	2023-06-19	2115	6
13	1315	Customer_1315	Canada	13	2023-04-04	2060	10
14	1348	Customer_1348	USA	14	2024-11-26	2144	7
15	1310	Customer_1310	Germany	15	2023-02-23	2105	5

Q4

	ACCOUNTADMIN	COMPUTE_WH (X-Small)	Share
Databases	Worksheets		
Q4			
PRACTICAL2.SHOP	Settings	Open in Workspaces	Code Versions
34	--4. LEFT JOIN: Product Order Count		
35	--Question:		
36	--List all products and how many times each was ordered (if any).		
37	--Expected Output Columns:		
38	--- ProductID, ProductName, TotalOrders		
39	--(TotalOrders is the count of how many times the product appears in orders)		
40			
41			
42	SELECT A.PRODUCTID, A.ProductName, Count(B.orderID) AS TotalOrders		
43	From products_large as A		
44	LEFT Join orders_large as B on A.PRODUCTID = B.PRODUCTID		
45	GROUP By A.PRODUCTID, A.PRODUCTNAME;		
Results	Chart		
	# PRODUCTID	Δ 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
10	2042	Product_2042	22
11	2169	Product_2169	18
12	2038	Product_2038	16
13	2186	Product_2186	15
14	2058	Product_2058	26
15	2174	Product_2174	13

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DatabasesWorksheets

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STORE

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PRACTICAL2.SHOPSettings

--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 CUSTOMERS\_LARGE AS A  
FULL OUTER JOIN ORDERS\_LARGE AS B ON A.CUSTOMERID = B.CUSTOMERID;

ResultsChart

	# CUSTOMERID	A CUSTOMERNAME	A 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
10	1010	Customer_1010	UK	10	2023-07-19	2141	3
11	1324	Customer_1324	India	11	2024-11-21	2090	1
12	1248	Customer_1248	Germany	12	2023-06-19	2115	6
13	1315	Customer_1315	Canada	13	2023-04-04	2060	10
14	1348	Customer_1348	USA	14	2024-11-26	2144	7
15	1310	Customer_1310	Germany	15	2023-02-23	2105	5
16	1219	Customer_1219	Germany	16	2024-04-15	2082	3

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DatabasesWorksheets

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SNOWFLAKE\_LEARNING\_DB

SNOWFLAKE\_SAMPLE\_DATA

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PRACTICAL2.SHOPSettings

--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 PRODUCTS\_LARGE AS A  
FULL OUTER JOIN ORDERS\_LARGE AS B ON A.PRODUCTID = B.PRODUCTID;

ResultsChart

	# PRODUCTID	A 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
4	2007	Product_2007	156	4	2023-02-17	1344	2
5	2061	Product_2061	1595	5	2024-11-06	1319	2
6	2190	Product_2190	1755	6	2024-11-23	1185	3
7	2099	Product_2099	1674	7	2023-07-29	1011	8
8	2078	Product_2078	333	8	2023-12-06	1322	7
9	2043	Product_2043	1947	9	2025-01-25	1224	7
10	2141	Product_2141	1599	10	2023-07-19	1010	3
11	2090	Product_2090	1662	11	2024-11-21	1324	1
12	2115	Product_2115	1585	12	2023-06-19	1248	6
13	2060	Product_2060	103	13	2023-04-04	1315	10
14	2144	Product_2144	1284	14	2024-11-26	1348	7
15	2105	Product_2105	1284	15	2023-02-23	1310	5
16	2082	Product_2082	500	16	2024-04-15	1219	3