

1. INNER JOIN: Orders with Customer and Product Names

2025-10-20 4:01pm 2025-10-20 8:22pm 2025-10-21 8:37am 2025-10-25 10:28pm 2025-11-03 11:12am 2025-11-03 11:14am 2025-11-03 11:16am + ↴

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```
8   --Orders with Customer and Product Names
9   SELECT
10    A.OrderID,
11    A.OrderDate,
12    c.CustomerName,
13    p.ProductName,
14    A.Quantity
15   FROM
16    "PRACTICAL2"."JOINS"."ORDERS" A
17   JOIN
18    "PRACTICAL2"."JOINS"."CUSTOMERS" c ON A.CustomerID = c.CustomerID
19   JOIN
20    "PRACTICAL2"."JOINS"."PRODUCTS" p ON A.ProductID = p.ProductID
21   ORDER BY
22    A.OrderID;
```

↳ Results ✎ Chart

#	ORDERID	⌚ ORDERDATE	⚠ CUSTOMERNAME	⚠ PRODUCTNAME	# 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
4		4 2023-02-17	Customer_1344	Product_2007	2
5		5 2024-11-06	Customer_1319	Product_2061	2
6		6 2024-11-23	Customer_1185	Product_2190	3
7		7 2023-07-29	Customer_1011	Product_2099	8
8		8 2023-12-06	Customer_1322	Product_2078	

Query Details ...
Query duration 200ms
Rows 4K
Query ID 01c031fb-000c-b2ea-0...
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ORDERID #

2. INNER JOIN: Customers Who Placed Orders

The screenshot shows a database query interface with the following details:

Query History: The top navigation bar displays a timeline of recent queries: 2025-10-20 4:01am, 2025-10-20 8:22pm, 2025-10-21 8:37am, 2025-10-25 10:28pm, 2025-11-03 11:12am, 2025-11-03 11:14am, 2025-11-03 11:16am, and a plus sign for new queries.

User Information: The top right corner shows the user is ACCOUNTADMIN with a COMPUTE_WH (X-Small) license, and includes Share, Open in Workspaces, and Code Versions buttons.

Query Editor: The main area contains the following SQL code:

```
--INNER JOIN: Customers Who Placed Orders--  
SELECT  
    A.CustomerID,  
    A.OrderID,  
    A.OrderDate,  
    c.CustomerName,  
    c.country  
FROM "PRACTICAL2"."JOINS"."CUSTOMERS" c  
JOIN  
    "PRACTICAL2"."JOINS"."ORDERS" A ON c.CustomerID = A.CustomerID  
ORDER BY  
    c.CUSTOMERID;
```

Results View: The results are displayed in a table with the following columns: CUSTOMERID, ORDERID, ORDERDATE, CUSTOMERNAME, and COUNTRY. The data shows 10 rows of customer orders, all from India. An inset chart titled "CUSTOMERID" shows a distribution of values from 1001 to 1400.

	CUSTOMERID	ORDERID	ORDERDATE	CUSTOMERNAME	COUNTRY
1		1001	2802	2024-03-14	Customer_1001
2		1001	1855	2024-05-04	Customer_1001
3		1001	3408	2024-04-15	Customer_1001
4		1001	1106	2024-05-15	Customer_1001
5		1001	127	2024-06-30	Customer_1001
6		1001	2602	2023-04-04	Customer_1001
7		1001	462	2024-06-14	Customer_1001
8		1002	1824	2024-01-24	Customer_1002
9		1002	2288	2024-11-09	Customer_1002
10		1002	2176	2024-08-20	Customer_1002

Query Details: The sidebar on the right shows the query duration is 179ms, it processed 4K rows, and the query ID is 01c0320e-000c-b2ea-0... . There is also a "Show more" button.

Activation Message: A message at the bottom right says "Activate Windows" and "Go to Settings to activate Windows."

3. LEFT JOIN: All Customers and Their Orders

The screenshot shows a database query interface with the following details:

Query:

```
37 --LEFT JOIN: All Customers and Their Orders--
38 SELECT
39     B.CustomerID,
40     B.CustomerName,
41     B.Country,
42     A.OrderID,
43     A.OrderDate,
44     A.ProductID,
45     A.Quantity
46 FROM
47     "PRACTICAL2"."JOINS"."CUSTOMERS" B
48 LEFT JOIN
49     "PRACTICAL2"."JOINS"."ORDERS" A ON B.CustomerID = A.CustomerID
50 ORDER BY
51     B.CustomerID;
```

Results:

#	CUSTOMERID	CUSTOMERNAME	COUNTRY	#	ORDERID	ORDERDATE	#	PRODUCTID	#	QUANTITY
1	1001	Customer_1001	India		2802	2024-03-14		2005		6
2	1001	Customer_1001	India		1855	2024-05-04		2185		7
3	1001	Customer_1001	India		3408	2024-04-15		2100		5
4	1001	Customer_1001	India		1106	2024-05-15		2084		10
5	1001	Customer_1001	India		127	2024-06-30		2190		5
6	1001	Customer_1001	India		2602	2023-04-04		2197		7
7	1001	Customer_1001	India		462	2024-06-14		2044		3
8	1002	Customer_1002	Germany		1824	2024-01-24		2034		3

Query Details:

- Query duration: 579ms
- Rows: 4K
- Query ID: 01c03216-000c-b2eb-0...

Activation Message:

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4. LEFT JOIN: Product Order Count

The screenshot shows a database query interface with the following details:

Query Environment: PRACTICAL2.JOINS, ACCOUNTADMIN, COMPUTE_WH (X-Small)

Timestamps: 2025-10-20 4:01pm, 2025-10-20 8:22pm, 2025-10-21 8:37am, 2025-10-25 10:28pm, 2025-11-03 11:12am, 2025-11-03 11:14am, 2025-11-03 11:16am

Code (Line Numbers 52-66):

```
52 --LEFT JOIN: Product Order Count--  
53 SELECT  
54     p.ProductID,  
55     p.ProductName,  
56     COUNT(o.OrderID) AS TotalOrders  
57 FROM  
58     "PRACTICAL2"."JOINS"."PRODUCTS" p  
59     LEFT JOIN  
60     "PRACTICAL2"."JOINS"."ORDERS" o ON p.ProductID = o.ProductID  
61     GROUP BY  
62         p.ProductID,  
63         p.ProductName  
64     ORDER BY  
65         p.ProductID;
```

Results:

#	PRODUCTID	PRODUCTNAME	TOTALORDERS
1	2001	Product_2001	20
2	2002	Product_2002	23
3	2003	Product_2003	25
4	2004	Product_2004	24
5	2005	Product_2005	25
6	2006	Product_2006	13
7	2007	Product_2007	16
8	2008	Product_2008	22
9	2009	Product_2009	Activate Windows

Query Details:

- Query duration: 283ms
- Rows: 200
- Query ID: 01c03220-000c-b2eb-0...

Right Panel:

- Activate Windows
- Go to Settings

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

The screenshot shows a data analysis interface with a query editor and a results table.

Query Editor:

```
--RIGHT JOIN: Orders with Product--  
SELECT  
    A.OrderID,  
    A.OrderDate,  
    B.ProductID,  
    B.ProductName,  
    B.Price,  
    A.Quantity  
FROM  
    Orders A  
RIGHT JOIN  
    Products B ON A.ProductID = B.ProductID  
ORDER BY  
    B.ProductID;
```

Results Table:

#	ORDERID	ORDERDATE	#	PRODUCTID	▲ PRODUCTNAME	#	PRICE	#	QUANTITY
1		2180		2001	Product_2001		833		3
2		2723		2001	Product_2001		833		5
3		2544		2001	Product_2001		833		6
4		3555		2001	Product_2001		833		10
5		2485		2001	Product_2001		833		1
6		1259		2001	Product_2001		833		5
7		427		2001	Product_2001		833		6
8		3663		2001	Product_2001		833		9
9		680		2001	Product_2001		833		5

Query Details:

- Query duration: 196ms
- Rows: 4K
- Query ID: 01c03226-000c-b2eb-0...

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

2025-10-20 4:01pm 2025-10-20 8:22pm 2025-10-21 8:37am 2025-10-25 10:28pm 2025-11-03 11:12am 2025-11-03 11:14am 2025-11-03 11:16am + ▾

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```
82
83 --RIGHT JOIN: Customer Info with Orders--
84 SELECT
85     A.CustomerID,
86     A.OrderID,
87     A.OrderDate,
88     A.Quantity,
89     B.CustomerName,
90     B.Country,
91     A.ProductID
92 From
93     "PRACTICAL2"."JOINS"."ORDERS" A
94 RIGHT JOIN
95     "PRACTICAL2"."JOINS"."CUSTOMERS" B ON A.CUSTOMERID = B.CUSTOMERID
96 ORDER BY
97     B.CUSTOMERID;
```

↳ Results ▲ Chart

#	CUSTOMERID	#	ORDERID	⌚	ORDERDATE	#	QUANTITY	▲	CUSTOMERNAME	▲	COUNTRY	#	PRODUCTID
1			1001		2802	⌚	2024-03-14		Customer_1001	⌚	India		2005
2			1001		1855	⌚	2024-05-04		Customer_1001	⌚	India		2185
3			1001		3408	⌚	2024-04-15		Customer_1001	⌚	India		2100
4			1001		1106	⌚	2024-05-15		Customer_1001	⌚	India		2084
5			1001		127	⌚	2024-06-30		Customer_1001	⌚	India		2190
6			1001		2602	⌚	2023-04-04		Customer_1001	⌚	India		2197
7			1001		462	⌚	2024-06-14		Customer_1001	⌚	India		2044
8			1002		1824	⌚	2024-01-24		Customer_1002	⌚	Germany		2034

Query Details ...
Query duration 657ms
Rows 4K
Query ID 01c0323e-000c-b2eb-0...
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7. FULL OUTER JOIN: All Customers and All Orders

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Open in Workspaces Code Versions

```
99  SELECT
100     A.CustomerID,
101     A.CustomerName,
102     A.Country,
103     B.OrderID,
104     B.OrderDate,
105     B.ProductID,
106     B.Quantity
107  FROM
108      "PRACTICAL2"."JOINS"."CUSTOMERS" A
109  FULL OUTER JOIN
110      "PRACTICAL2"."JOINS"."ORDERS" B ON A.CustomerID = B.CustomerID
111  ORDER BY
112      A.CustomerID;
```

↳ Results ▾ Chart

#	CUSTOMERID	CUSTOMERNAME	COUNTRY	#	ORDERID	ORDERDATE	#	PRODUCTID	#	QUANTITY
1	1001	Customer_1001	India		2802	2024-03-14		2005		6
2	1001	Customer_1001	India		1855	2024-05-04		2185		7
3	1001	Customer_1001	India		3408	2024-04-15		2100		5
4	1001	Customer_1001	India		1106	2024-05-15		2084		10
5	1001	Customer_1001	India		127	2024-06-30		2190		5
6	1001	Customer_1001	India		2602	2023-04-04		2197		7
7	1001	Customer_1001	India		462	2024-06-14		2044		4
8	1002	Customer_1002	Germany		1824	2024-01-24		2034		5
9	1002	Customer_1002	Germany		2288	2024-11-09		2062		5

Query Details

Query duration 868ms

Rows 4K

Query ID 01c042b8-000c-b3fd-0...

Show more ▾

CUSTOMERID #

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1001 1400

8. FULL OUTER JOIN: All Products and Orders

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```
113 --FULL OUTER JOIN: All Products and Orders--
114 SELECT
115     A.ProductID,
116     A.ProductName,
117     A.Price,
118     B.OrderID,
119     B.OrderDate,
120     B.CustomerID,
121     B.Quantity
122 FROM
123     "PRACTICAL2"."JOINS"."PRODUCTS" A
124 FULL OUTER JOIN
125     "PRACTICAL2"."JOINS"."ORDERS" B ON A.ProductID = B.ProductID
126 ORDER BY
127     A.ProductID;
```

Results Chart

#	PRODUCTID	PRODUCTNAME	PRICE	ORDERID	ORDERDATE	CUSTOMERID	QUANTITY
1	2001	Product_2001	833	2180	2023-07-19	1249	3
2	2001	Product_2001	833	2723	2024-11-26	1368	5
3	2001	Product_2001	833	2544	2024-04-23	1186	6
4	2001	Product_2001	833	3555	2024-10-27	1358	10
5	2001	Product_2001	833	2485	2024-04-26	1284	1
6	2001	Product_2001	833	1259	2023-08-29	1329	5
7	2001	Product_2001	833	427	2023-02-28	1070	6
8	2001	Product_2001	833	3663	2023-03-12	1219	9
9	2001	Product_2001	833	680	2024-10-29	1068	5

Query Details ...
Query duration 359ms
Rows 4K
Query ID 01c042bf-000c-b3fd-0...
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PRODUCTID #