

BrightLight Data Analytics

SQL JOIN Practice

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1. List all orders along with the customer name and product name.

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SELECT

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OrderID,

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OrderDate,

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CustomerName,

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ProductName,

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Quantity

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FROM ORDERS.ORDERSLARGE.LARGEORDERS AS A

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INNER JOIN CUSTOMERS.CUSTOMERLARGE.LARGECUSTOMERS AS B ON A.CustomerID = B.CustomerID

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INNER JOIN PRODUCTS.PRODUCTSLARGE.LARGEPRODUCTS AS C ON A.ProductID = C.ProductID;

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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	7
9	9	2025-01-25	Customer_1224	Product_2043	7
10	10	2023-07-19	Customer_1010	Product_2141	3
11	11	2024-11-21	Customer_1324	Product_2090	1
12	12	2023-06-19	Customer_1248	Product_2115	6

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2. Which customers have placed at least one order

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SELECT

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A.CUSTOMERID,

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CustomerName,

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Country,

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OrderID,

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OrderDate

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FROM CUSTOMERS.CUSTOMERLARGE.LARGECUSTOMERS AS A

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INNER JOIN ORDERS.ORDERSLARGE.LARGEORDERS AS B ON A.CUSTOMERID = B.CUSTOMERID;

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Results

Chart

#	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
	1319	Customer_1319	USA	5	2024-11-06
	1185	Customer_1185	Australia	6	2024-11-23
	1011	Customer_1011	Germany	7	2023-07-29
	1322	Customer_1322	Australia	8	2023-12-06
	1224	Customer_1224	Australia	9	2025-01-25
	1010	Customer_1010	UK	10	2023-07-19
	1324	Customer_1324	India	11	2024-11-21
	1248	Customer_1248	Germany	12	2023-06-19
	1315	Customer_1315	Canada	13	2023-04-04

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--3. List all customers and any orders they might have placed. Include customers who have not placed any orders.

SELECT
A.CUSTOMERID,
CustomerName,
Country,
OrderID,
OrderDate,
ProductID,
Quantity
FROM CUSTOMERS.CUSTOMERLARGE.LARGECUSTOMERS AS A
LEFT JOIN ORDERS.ORDERSLARGE.LARGEORDERS 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

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---4. List all products and how many times each was ordered (if any).

SELECT
A.PRODUCTID,
ProductName,
COUNT(OrderID) AS TotalOrders
FROM PRODUCTS.PRODUCTSLARGE.LARGEPRODUCTS AS A
LEFT JOIN ORDERS.ORDERSLARGE.LARGEORDERS AS B ON A.ProductID = B.ProductID
GROUP BY A.ProductID, A.ProductName;

ResultsChart

	# PRODUCTID	A 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
0	2042	Product_2042	22
1	2169	Product_2169	18
2	2038	Product_2038	16
3	2186	Product_2186	15
4	2058	Product_2058	26

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---5. Find all orders along with product details, including any products that might not have been ordered.

SELECT
OrderID,
OrderDate,
A.PRODUCTID,
ProductName,
Price,
Quantity
FROM ORDERS.ORDERSLARGE.LARGEORDERS AS A
RIGHT JOIN PRODUCTS.PRODUCTSLARGE.LARGEPRODUCTS AS B ON A.ProductID = B.ProductID;

ResultsChart

	# ORDERID	ORDERDATE	# PRODUCTID	A PRODUCTNAME	# PRICE	# QUANTITY
1	1	2023-06-10	2014	Product_2014	522	10
2	2	2023-12-07	2004	Product_2004	1996	5
3	3	2024-10-26	2171	Product_2171	76	9
4	4	2023-02-17	2007	Product_2007	156	2
5	5	2024-11-06	2061	Product_2061	1595	2
6	6	2024-11-23	2190	Product_2190	1755	3
7	7	2023-07-29	2099	Product_2099	1674	8
8	8	2023-12-06	2078	Product_2078	333	7
9	9	2025-01-25	2043	Product_2043	1947	7
10	10	2023-07-19	2141	Product_2141	1599	3

Results

Chart

	PRODUCTID	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	2018	Product_2018	1013	9	2025-01-05	1001	7