Diagram

Description automatically generated

**Questions: GROUP BY**

1. Which **account** (by name) placed the earliest order? Your solution should have the **account name** and the **date** of the order.

SELECT

a.name,

o.occurred\_at

FROM accounts a

JOIN orders o

ON a.id=o.account\_id

ORDER BY o.occurred\_at

LIMIT 1;

1. Find the total sales in **usd** for each account. You should include two columns - the total sales for each company's orders in **usd** and the company **name**.

SELECT

a.name company,

SUM(o.total\_amt\_usd) total\_sales

FROM accounts a

JOIN orders o

ON a.id=o.account\_id

GROUP BY a.name

ORDER BY total\_sales;

1. Via what **channel** did the most recent (latest) **web\_event** occur, which **account** was associated with this **web\_event**? Your query should return only three values - the **date**, **channel**, and **account name**.

SELECT

w.occurred\_at latest\_event,

w.channel,

a.name

FROM web\_events w

JOIN accounts a

ON a.id=w.account\_id

ORDER BY latest\_event DESC

LIMIT 1;

1. Find the total number of times each type of **channel** from the **web\_events** was used. Your final table should have two columns - the **channel** and the number of times the channel was used.

SELECT

channel,

count(\*)

FROM web\_events

group by channel;

1. Who was the **primary contact** associated with the earliest **web\_event**?

SELECT

a.primary\_poc,

w.occurred\_at earliest\_event

FROM web\_events w

JOIN accounts a

ON a.id=w.account\_id

ORDER BY earliest\_event

LIMIT 1;

1. What was the smallest order placed by each **account** in terms of **total usd**. Provide only two columns - the account **name** and the **total usd**. Order from smallest dollar amounts to largest.

SELECT

a.name account,

MIN(o.total\_amt\_usd) min\_usd

FROM ORDERS o

JOIN accounts a

ON a.id=o.account\_id

GROUP BY a.name

ORDER BY min\_usd;

1. Find the number of **sales reps** in each region. Your final table should have two columns - the **region** and the number of **sales\_reps**. Order from fewest reps to most reps.

SELECT

r.name region,

COUNT(s.name) num\_sales\_rep

FROM sales\_reps s

JOIN region r

ON r.id=s.region\_id

GROUP BY r.name

ORDER BY num\_sales\_rep;