**Q1.**

SELECT ship\_mode,

SUM(quantity) AS total\_quantity

FROM superstore\_yoy

GROUP BY ship\_mode;

**Q2.**

SELECT postal\_code, count(\*) as qty

FROM superstore\_yoy

WHERE ship\_mode = 'Same Day' or ship\_mode = 'First Class'

GROUP BY postal\_code

ORDER BY qty DESC;

**Q3.**

SELECT postal\_code, COUNT(order\_id) as qty

FROM superstore\_yoy

WHERE ship\_mode ILIKE 'same day' OR ship\_mode ILIKE 'first class'

GROUP BY postal\_code

HAVING COUNT(order\_id)>10

ORDER BY qty DESC;

**Q4.**

SELECT ship\_mode, postal\_code, COUNT(\*) as qty

FROM superstore\_yoy

WHERE ship\_mode = 'Same Day' OR ship\_mode = 'First Class'

GROUP BY postal\_code, ship\_mode

HAVING COUNT(\*)>10

ORDER BY qty DESC;

**Q5.**

SELECT ship\_mode,

COUNT(DISTINCT customer\_id) as customer\_count,

COUNT(DISTINCT product\_id) as product\_count

FROM superstore\_yoy

WHERE ship\_mode = 'Same Day' OR ship\_mode = 'First Class'

GROUP BY ship\_mode;

**Q6.**

SELECT CASE

WHEN order\_date < '2017-12-31' THEN '2017'

WHEN order\_date < '2018-12-31' THEN '2018'

WHEN order\_date < '2019-12-31' THEN '2019'

ELSE 'Other'

END AS order\_year, ROUND(SUM(sales)::numeric,2) as total\_sales, SUM(profit) as total\_profit

FROM superstore\_yoy

GROUP BY order\_year

ORDER BY total\_profit DESC;

**Q7.**

SELECT CASE

WHEN order\_date < '2017-12-31' THEN '2017'

WHEN order\_date < '2018-12-31' THEN '2018'

WHEN order\_date < '2019-12-31' THEN '2019'

ELSE 'Other'

END AS order\_year, region, ROUND(SUM(sales)::numeric,2) as total\_sales,

SUM(profit) as total\_profit,

ROUND(AVG(discount),2) as avg\_discount,

ROUND(STDDEV\_pop(discount),2) as std\_discount

FROM superstore\_yoy

GROUP BY order\_date, region

ORDER BY order\_date ASC;

**Q8.**

SELECT CASE

WHEN sales >= 100 THEN 'Expensive'

WHEN sales <= 50 THEN 'Cheap'

ELSE 'Mid'

END AS price\_category, product\_name, sales, ship\_mode

FROM superstore\_yoy

WHERE ship\_mode IN ('Same Day','First Class')

GROUP BY price\_category, product\_name, sales, ship\_mode;

**Q9.**

**Top 10 Sales with First Class or Same Day delivery**

SELECT CASE

WHEN sales >= 100 THEN 'Expensive'

WHEN sales <= 50 THEN 'Cheap'

ELSE 'Mid'

END AS price\_category, product\_name, sales::numeric::money, ship\_mode

FROM superstore\_yoy

WHERE ship\_mode IN ('Same Day','First Class')

GROUP BY price\_category, product\_name, sales, ship\_mode

ORDER BY sales DESC

LIMIT 10;

**Bottom 10 Sellers with First Class or Same Day delivery**

SELECT CASE

WHEN sales >= 100 THEN 'Expensive'

WHEN sales <= 50 THEN 'Cheap'

ELSE 'Mid'

END AS price\_category, product\_name, sales::numeric::money, ship\_mode

FROM superstore\_yoy

WHERE ship\_mode IN ('Same Day','First Class')

GROUP BY price\_category, product\_name, sales, ship\_mode

ORDER BY sales ASC

LIMIT 10;

**Top 5 most frequently sold items with First Class or Same Day delivery**

SELECT CASE

WHEN sales >= 100 THEN 'Expensive'

WHEN sales <= 50 THEN 'Cheap'

ELSE 'Mid'

END AS price\_category, quantity, product\_name, sales::numeric::money, ship\_mode

FROM superstore\_yoy

WHERE ship\_mode IN ('Same Day','First Class')

GROUP BY price\_category, product\_name, sales, ship\_mode, quantity

ORDER BY quantity DESC

LIMIT 5;

**Q10.**