1.

SELECT p.product\_name, COUNT(op.product\_id) AS order\_count

FROM orders\_product op

JOIN products p ON op.product\_id = p.product\_id

GROUP BY p.product\_name

ORDER BY order\_count DESC

LIMIT 1;

2.

SELECT delivery\_dt, COUNT(\*) AS completed\_deliveries

FROM info

WHERE is\_completed\_flg = 'True'

GROUP BY delivery\_dt

ORDER BY completed\_deliveries DESC

LIMIT 1;

3.

SELECT delivery\_dt, COUNT(\*) AS completed\_deliveries

FROM info

WHERE is\_completed\_flg = 'True'

GROUP BY delivery\_dt

ORDER BY completed\_deliveries ASC

LIMIT 1;

4.

SELECT device\_name,

AVG(TIMESTAMPDIFF(MINUTE, STR\_TO\_DATE(start\_dttm, '%d.%m.%y %H:%i'), STR\_TO\_DATE(finish\_dttm, '%d.%m.%y %H:%i'))) AS avg\_session\_time\_minutes

FROM app\_sess

GROUP BY device\_name;

5.

SELECT order\_id, COUNT(DISTINCT product\_id) AS unique\_products\_count

FROM orders\_product

GROUP BY order\_id

ORDER BY unique\_products\_count DESC

LIMIT 1;

6.

SELECT DATE\_FORMAT(delivery\_dt, '%Y-%m') AS month, COUNT(\*) AS incomplete\_deliveries

FROM info

WHERE is\_completed\_flg = 'False' AND delivery\_dt >= '2022-01-01'

GROUP BY month

ORDER BY month;

7.

SELECT EXTRACT(YEAR FROM order\_dt) AS year, payment\_method, COUNT(\*) AS order\_count

FROM orders

GROUP BY year, payment\_method

ORDER BY year, payment\_method;

8.

SELECT c.customer\_id, c.first\_name, c.last\_name, COUNT(o.order\_id) AS order\_count

FROM orders o

JOIN customers c ON o.customer\_id = c.customer\_id

GROUP BY c.customer\_id, c.first\_name, c.last\_name

ORDER BY order\_count DESC

LIMIT 10;

9.

SELECT

CASE

WHEN (YEAR(CURDATE()) - YEAR(c.birth\_dt) - (DATE\_FORMAT(CURDATE(), '%m%d') < DATE\_FORMAT(c.birth\_dt, '%m%d'))) BETWEEN 18 AND 30 THEN '18-30'

WHEN (YEAR(CURDATE()) - YEAR(c.birth\_dt) - (DATE\_FORMAT(CURDATE(), '%m%d') < DATE\_FORMAT(c.birth\_dt, '%m%d'))) BETWEEN 30 AND 45 THEN '30-45'

WHEN (YEAR(CURDATE()) - YEAR(c.birth\_dt) - (DATE\_FORMAT(CURDATE(), '%m%d') < DATE\_FORMAT(c.birth\_dt, '%m%d'))) BETWEEN 45 AND 60 THEN '45-60'

WHEN (YEAR(CURDATE()) - YEAR(c.birth\_dt) - (DATE\_FORMAT(CURDATE(), '%m%d') < DATE\_FORMAT(c.birth\_dt, '%m%d'))) > 60 THEN '60+'

ELSE '18-'

END AS age\_group,

p.product\_group\_name,

COUNT(op.product\_id) AS order\_count

FROM

orders o

JOIN customers c ON o.customer\_id = c.customer\_id

JOIN orders\_product op ON o.order\_id = op.order\_id

JOIN products p ON op.product\_id = p.product\_id

GROUP BY

age\_group, p.product\_group\_name

ORDER BY

age\_group, order\_count DESC;

10.

SELECT p2.product\_name, COUNT(\*) AS co\_order\_count

FROM orders\_product op1

JOIN orders\_product op2 ON op1.order\_id = op2.order\_id AND op1.product\_id != op2.product\_id

JOIN products p1 ON op1.product\_id = p1.product\_id

JOIN products p2 ON op2.product\_id = p2.product\_id

WHERE p1.product\_name = 'Х' ( тут вписываем сами, напр. ‘Вода’)

GROUP BY p2.product\_name

ORDER BY co\_order\_count DESC

LIMIT 1;