1.

SELECT distinct s.customer\_id

FROM sales\_history s

JOIN sales\_history2 s2

ON s.order\_id = s2.order\_id

JOIN product p

ON p.product\_id = s.product\_id

AND s.total\_amount = 10000

AND UPPER(p.product\_name) like 'S%'

GROUP BY s.customer\_id, s.sales\_date, p.product\_category, p.color

HAVING date\_trunc('day',s.sales\_date) >= '2018-04-01'

AND date\_trunc('day',s.sales\_date) <= '2019-06-30'

AND SUM(s.sale\_amount) > 300

AND SUM(s.sale\_amount) < 300

AND COUNT(s.customer\_id) >= 1

AND upper(p.product\_category) = 'MOBILE'

OR upper(p.color) = 'BLACK'

2.

select product\_category, sum(s.sale\_amount \* ss.quantity)/1000000 as total\_amt

FROM customer c

JOIN sales\_history s

ON c.customer\_id = s.customer\_id

JOIN sales\_history2 ss

ON s.order\_id = ss.order\_id

JOIN product p

ON ss.product\_id = p.product\_id

WHERE date\_part('year',s.sales\_date)<> '2017'

GROUP BY product\_category

HAVING SUBSTRING(product\_category,1) <> 'M'

3.

select product\_category, sum(s.sale\_amount \* ss.quantity)/1000000 as total\_amt

FROM customer c

JOIN sales\_history s

ON c.customer\_id = s.customer\_id

JOIN sales\_history2 ss

ON s.order\_id = ss.order\_id

JOIN product p

ON ss.product\_id = p.product\_id

WHERE date\_part('year',s.sales\_date)<> '2017'

GROUP BY product\_category

4.

SELECT distinct s.customer\_id

FROM sales\_history s

JOIN sales\_history2 s2

ON s.order\_id = s2.order\_id

JOIN product p

ON p.product\_id = s.product\_id

GROUP BY s.customer\_id, s.sales\_date, p.product\_category, p.color

HAVING date\_trunc('day',s.sales\_date) >= '2018-04-01'

AND date\_trunc('day',s.sales\_date) <= '2019-06-30'

AND SUM(s.sale\_amount) > 300

AND SUM(s.sale\_amount) < 300

AND COUNT(s.customer\_id) >= 1

AND upper(p.product\_category) = 'MOBILE'

OR upper(p.color) = 'BLACK'

5.