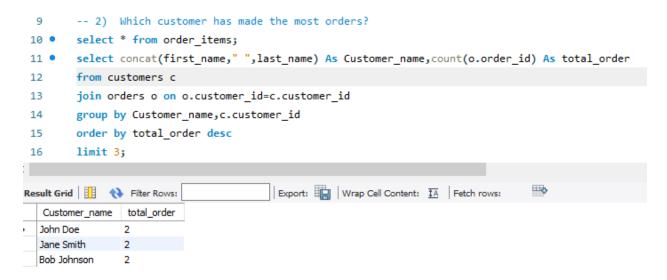
QUESTION: 01

QUESTION: 02



QUESTION: 03

```
-- 3) What's the total revenue per product?
18
       select * from products;
19 •
        select product_name,sum(price*quantity) As revenue
20 •
21
       from products p
        join order_items ot on ot.product_id=p.product_id
22
        group by product_name
23
        order by revenue desc;
24
25
                                          Export: Wrap Cell Content
esult Grid | | Name | Printer Rows:
  product_name
              revenue
 Choclate Cake
              420
 Hot dog
              330
 Roast Chicken
              210
 Coke
              195
 Sausage
              180
 Chicken Wing
              160
 French Fries
              150
QUESTION: 04
         -- 4) Find the orders and revenue trend
 26
 27
         select order_date,count(o.order_id)As orders,sum(price*quantity) As revenue
 28 •
         from orders o
 29
 30
         join order items otm on otm.order id=o.order id
         join products p on otm.product id=p.product id
 31
         group by order date
 32
         order by order date desc;
 33
 34
                                           Export: Wrap Cell Content: IA
Result Grid
               Filter Rows:
   order_date orders revenue
   2023-05-16
                     340
   2023-05-15 2
                     225
   2023-05-14 2
                     145
   2023-05-13 2
                     185
   2023-05-12 2
                     80
   2023-05-11 2
                     275
```

2023-05-10 2

285

QUESTION: 05

```
-- 5) Find the first order (by date) for each customer.
 36 • ⊖ WITH first_orders AS (
         SELECT CONCAT(first_name, ' ',last_name) AS customer_name,product_name,
 37
         DENSE RANK() OVER(PARTITION BY first name, last name ORDER BY order date) AS rnk
 38
 39
         FROM customers c
 40
         JOIN orders o
         ON c.customer id=o.customer id
 41
         JOIN order items oi
 42
         ON o.order_id=oi.order_id
 43
         JOIN products p
 44
         ON p.product id=oi.product id)
 45
         SELECT customer_name, GROUP_CONCAT(product_name) AS first_order_product
 46
         FROM first_orders
 47
 48
         WHERE rnk=1
         GROUP BY customer_name;
 49
 50
                                        Export: Wrap Cell Content: 1A
Result Grid Filter Rows:
   customer_name
                 first_order_product
  Alice Brown
                 Donut,SandWich
  Bob Johnson
                Pizza, Chicken Wing
  Charlie Davis
                 Roast Chicken, Chines Rice
  Eva Fisher
                Noodles, French Fries
  George Harris
                Hot dog, Sausage
```

QUESTION: 06

```
50
         -- 6) Find the top 3 customers who have ordered the most distinct products
51
52 ● ⊖ with customer As (
        select concat(first_name,"",last_name) as customerName,count(distinct(product_id)) as unique_product
53
        from customers c
54
55
        join orders o on o.customer_id=c.customer_id
        join order_items oi on oi.order_id=o.order_id
56
        group by customerName)
57
        select customerName,unique_product,DENSE_RANK() OVER(ORDER BY unique_product DESC) AS rnk
58
59
        FROM customer;
Result Grid | Filter Rows:
                                      Export: Wrap Cell Content: IA
   customerName unique_product rnk
  BobJohnson
               3
  JaneSmith
               3
  JohnDoe
  AliceBrown
               2
  CharlieDavis
                             2
                             2
  EvaFisher
               2
                             2
  GeorgeHarris
  IvyJones
               2
                             2
  KevinMiller
                             2
                             2
  LilyNelson
  OliverPatterson 2
  QuinnRoberts 2
                             2
  SophiaThomas 2
```

QUESTION: 07

```
60
         -- 7) Which product has been bought the highest & least in terms of quantity?
61
 62 ● ⊖ with product totals as (
         select product_name,sum(quantity) as total_qty
63
         from products p
64
         join order_items oi on oi.product_id=p.product_id
 65
         group by product_name
 66
 67
         select
 68
              (select product name from product totals order by total qty desc limit 1) as Most order product,
              (SELECT product_name FROM product_totals ORDER BY total_qty ASC LIMIT 1) AS least_ordered_product;
 70
 71
 72
Result Grid Filter Rows:
                                     Export: Wrap Cell Content: IA
   Most_order_product least_ordered_product

    Burger

                   Donut
```