```
-- 1. Total Number of Orders
SELECT COUNT(*) AS Total_Orders FROM ORDERS;
-- 2. Calculate total revenue generated from pizza sales
SELECT
    ROUND(SUM(OD.quantity * P.price),2) AS Total Sales
FROM
    order_details OD
JOIN
    pizzas P ON OD.pizza_id = P.pizza_id;
-- 3. Identify the highest-priced pizza
SELECT TOP 1
    PT.name,
    P.price
FROM
    pizza_types PT
JOIN
   pizzas P ON PT.pizza_type_id = P.pizza_type_id
ORDER BY
    P.price DESC;
-- 4. Identify the most common pizza size ordered
SELECT TOP 1
    size,
    COUNT(*) AS order_count
FROM
    pizzas P
JOIN
    order_details OD ON P.pizza_id = OD.pizza_id
GROUP BY
    size
ORDER BY
    order_count DESC;
-- 5. List the top 5 most ordered pizza types along with their quantities
SELECT TOP 5
    PT.name,
    SUM(OD.quantity) AS Quantity
FROM
    pizza_types PT
JOIN
   pizzas ON PT.pizza_type_id = pizzas.pizza_type_id
JOIN
    order details OD ON OD.pizza id = pizzas.pizza id
GROUP BY
    PT.name
ORDER BY
    Quantity DESC;
```

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-- 6. Find the total quantity of each pizza category ordered
SELECT
    PT.category,
    SUM(OD.quantity) AS Quantity
FROM
    pizza_types PT
JOIN
    pizzas P ON PT.pizza_type_id = P.pizza_type_id
JOIN
    order_details OD ON OD.pizza_id = P.pizza_id
GROUP BY
    PT.category
ORDER BY
    Quantity DESC;
-- 7. Determine the distribution of orders by hour of the day
SELECT
    DATEPART(HOUR, time) AS Hour,
    COUNT(ORDER ID) AS Order count
FROM
    ORDERS
GROUP BY
    DATEPART(HOUR, time) ORDER BY Hour;
-- 8. Find the category-wise distribution of pizzas
SELECT category, COUNT(name) FROM pizza_types GROUP BY category;
--9. Average number of pizzas ordered per day
SELECT AVG(quantity) AS Average_Quantity
FROM (
    SELECT
        orders.date,
        SUM(OD.quantity) AS quantity
    FROM
        orders
    JOIN
        order_details OD ON orders.order_id = OD.order_id
    GROUP BY
        orders.date
) AS Order_Quantity;
-- 10. Determine the top 3 most ordered pizza types based on revenue
SELECT TOP 3
    PT.name,
    SUM(OD.quantity * pizzas.price) AS Revenue
FROM
    pizza_types PT
```

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JOIN
    pizzas ON pizzas.pizza_type_id = PT.pizza_type_id
JOIN
    order_details OD ON OD.pizza_id = pizzas.pizza_id
GROUP BY
    PT.name
ORDER BY
    Revenue DESC;
-- 11. Calculate the percentage contribution of each pizza type to total revenue
WITH TotalSales AS (
    SELECT SUM(OD.quantity * pizzas.price) AS Total_Sales
    FROM order details OD
    JOIN pizzas ON pizzas.pizza_id = OD.pizza_id
SELECT
    PT.category,
    ROUND(SUM(OD.quantity * pizzas.price) / TotalSales.Total_Sales * 100, 2) AS →
      Revenue_Percentage
FROM
    pizza_types PT
JOIN
    pizzas ON PT.pizza_type_id = pizzas.pizza_type_id
JOIN
    order details OD ON OD.pizza id = pizzas.pizza id
CROSS JOIN
    TotalSales
GROUP BY
    PT.category, TotalSales.Total_Sales
ORDER BY
    Revenue_Percentage DESC;
-- 12. Analyze the cumulative revenue generated over time
SELECT
    date,
    SUM(Revenue) OVER(ORDER BY date) AS cum_revenue
FROM (
    SELECT
        orders.date,
        SUM(OD.quantity * pizzas.price) AS Revenue
    FROM
        order_details OD
    JOIN
        pizzas ON OD.pizza_id = pizzas.pizza_id
    JOIN
        orders ON orders.order id = OD.order id
    GROUP BY
        orders.date
) AS Sales;
```

```
-- 13. Top 3 most ordered pizza types based on revenue for each pizza category
SELECT
    Name,
    Revenue
FROM
    SELECT
        category,
        Name,
        Revenue,
        RANK() OVER(PARTITION BY category ORDER BY Revenue DESC) AS Ranks
    FROM
        SELECT
            pizza_types.category,
            pizza_types.name,
            SUM(order_details.quantity * pizzas.price) AS Revenue
        FROM
            pizza_types
        JOIN
            pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
            order_details ON order_details.pizza_id = pizzas.pizza_id
        GROUP BY
            pizza_types.category, pizza_types.name
    ) AS A
) AS B
WHERE
    Ranks <= 3;
```