```
Q. Retrieve the total number of orders placed.
```

```
SELECT

COUNT(order_id)

FROM

orders;
```

Q. Calculate the total revenue generated from pizza sales.

```
SELECT

ROUND(SUM(orders_details.quantity * pizzas.price))

FROM

orders_details

JOIN

pizzas ON orders_details.pizza_id = pizzas.pizza_id;
```

Q. Identify the highest priced pizza.

```
SELECT
  pizza_types.name, pizzas.price
FROM
  pizza_types
    JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
ORDER BY pizzas.price DESC
LIMIT 1;
```

Q. Identify the most common pizza size ordered.

```
SELECT

pizzas.size,

COUNT(orders_details.order_detail_id) AS orders_count

FROM

pizzas

JOIN
```

```
orders_details ON pizzas.pizza_id = orders_details.pizza_id
GROUP BY pizzas.size
ORDER BY orders_count DESC
LIMIT 3;
Q. List the top 5 most ordered pizza types along with their quantities.
SELECT
  pizza_types.name, COUNT(orders_details.quantity) AS quantity
FROM
  pizza_types
    JOIN
  pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
    JOIN
  orders_details ON pizzas.pizza_id = orders_details.pizza_id
GROUP BY pizza_types.name
ORDER BY quantity DESC
LIMIT 5;
Q. Join the necessary tables to find the total quantity of each pizza category ordered.
SELECT
  pizza_types.category,
  COUNT(orders_details.quantity) AS Quantity
FROM
  pizza_types
    JOIN
  pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
    JOIN
  orders_details ON pizzas.pizza_id = orders_details.pizza_id
GROUP BY pizza_types.category
ORDER BY quantity DESC;
```

```
Q. Determine the distribution of orders by hour of the day.
```

```
SELECT
  HOUR(orders.order_time),
  COUNT(orders.order_id) AS order_count
FROM
  orders
GROUP BY HOUR(orders.order_time)
ORDER BY order_count DESC;
Q. Join the relevant tables to find the category wise distribution of pizzas.
SELECT
  category, COUNT(name)
FROM
  pizza_types
GROUP BY category;
Q. Group the orders by date and calculate the average number of pizzas ordered per day.
SELECT
  AVG(quantity)
FROM
  (SELECT
    orders.order_date AS ord_date,
      SUM(orders_details.quantity) AS quantity
  FROM
    orders
  JOIN orders_details ON orders.order_id = orders_details.order_id
  GROUP BY ord_date) AS order_quantity;
```

Q. Determine the top 3 most ordered pizza types based on revenue.

```
SELECT
  pizza_types.name,
  SUM(orders_details.quantity * pizzas.price) AS revenue
FROM
  pizza_types
    JOIN
  pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
    JOIN
  orders_details ON orders_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY revenue DESC
LIMIT 3;
Q. Calculate the percentage contribution of each pizza type to total revenue.
SELECT
  pizza_types.category,
  ROUND(SUM(orders_details.quantity * pizzas.price) / (SELECT
          ROUND(SUM(orders_details.quantity * pizzas.price))
        FROM
          orders_details
            JOIN
          pizzas ON orders_details.pizza_id = pizzas.pizza_id) * 100) AS revenue
FROM
  orders_details
    JOIN
  pizzas ON orders_details.pizza_id = pizzas.pizza_id
    JOIN
  pizza_types ON pizza_types.pizza_type_id = pizzas.pizza_type_id
GROUP BY pizza_types.category
ORDER BY revenue DESC;
```

Q. Analyze the cumulative revenue generated over time.

```
SELECT
  order_date,
  SUM(revenue) OVER (ORDER BY order_date) AS cumulative_revenue
FROM (
  SELECT
    orders.order_date,
    SUM(orders_details.quantity * pizzas.price) AS revenue
  FROM
    orders_details
  JOIN
    pizzas ON orders_details.pizza_id = pizzas.pizza_id
  JOIN
    orders ON orders.order_id = orders_details.order_id
  GROUP BY
    orders.order_date
) AS sales
ORDER BY order_date;
Q. Determine the 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 rn
  FROM (
    SELECT
      pizza_types.category,
      pizza_types.name,
```

```
SUM(orders_details.quantity * pizzas.price) AS revenue

FROM

pizza_types

JOIN

pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id

JOIN

orders_details ON orders_details.pizza_id = pizzas.pizza_id

GROUP BY

pizza_types.category,

pizza_types.name

) AS a

) AS b

WHERE rn <= 3;
```