1. **Calculate the percentage contribution of each pizza type to total revenue.**

```
SELECT
   pizza_types.category,
   SUM(pizzas.price * order_details.quantity) * 100.0 /
      (SELECT SUM(pizzas.price * order_details.quantity)
       FROM pizzas
       JOIN order_details ON pizzas.pizza_id = order_details.pizza_id)
   AS percentage_contribution
FROM pizza_types
JOIN pizzas
   ON pizza_types.pizza_type_id = pizzas.pizza_type_id
JOIN order_details
   ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizza_types.category;
```

2. **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(order_details.quantity * pizzas.price) AS revenue
   FROM orders
   JOIN order_details
      ON orders.order_id = order_details.order_id
   JOIN pizzas
      ON pizzas.pizza_id = order_details.pizza_id
```

```
    GROUP BY orders.order_date
) AS revenue_table;
```

3. **Determine the top 3 most ordered pizza types based on revenue for each pizza category.**

```
SELECT
    category,
    name,
    revenue
FROM (
    SELECT
        pizza_types.category,
        pizza_types.name,
        SUM(pizzas.price * order_details.quantity) AS revenue,
        ROW_NUMBER() OVER (
            PARTITION BY pizza_types.category
            ORDER BY SUM(pizzas.price * order_details.quantity) DESC
        ) AS rank_in_category
    FROM pizza_types
    JOIN pizzas
        ON pizza_types.pizza_type_id = pizzas.pizza_type_id
    JOIN order_details
        ON pizzas.pizza_id = order_details.pizza_id
    GROUP BY pizza_types.category, pizza_types.name
) ranked
WHERE rank_in_category <= 3
ORDER BY category, revenue DESC;
```