

-- 1. Total number of orders

```
SELECT COUNT(DISTINCT order_id) AS total_orders  
FROM orders;
```

-- 2. Total revenue from pizza sales

```
SELECT ROUND(SUM(pizzas.price * order_details.quantity), 2) AS total_revenue  
FROM order_details  
JOIN pizzas ON order_details.pizza_id = pizzas.pizza_id;
```

-- 3. Highest-priced pizza

```
SELECT name, price  
FROM pizzas  
ORDER BY price DESC  
LIMIT 1;
```

-- 4. Most common pizza size ordered

```
SELECT size, COUNT(*) AS count  
FROM pizzas  
GROUP BY size  
ORDER BY count DESC  
LIMIT 1;
```

-- 5. Top 5 most ordered pizza types

```
SELECT pizzas.name, SUM(order_details.quantity) AS total_quantity  
FROM order_details  
JOIN pizzas ON order_details.pizza_id = pizzas.pizza_id  
GROUP BY pizzas.name  
ORDER BY total_quantity DESC  
LIMIT 5;
```

-- 6. Total quantity per pizza category

```
SELECT categories.category_name, SUM(order_details.quantity) AS total_quantity
FROM order_details
JOIN pizzas ON order_details.pizza_id = pizzas.pizza_id
JOIN categories ON pizzas.category_id = categories.category_id
GROUP BY categories.category_name;
```

-- 7. Order distribution by hour

```
SELECT HOUR(order_time) AS hour, COUNT(*) AS order_count
FROM orders
GROUP BY hour
ORDER BY hour;
```

-- 8. Category-wise pizza distribution

```
SELECT categories.category_name, COUNT(pizzas.pizza_id) AS total_pizzas
FROM pizzas
JOIN categories ON pizzas.category_id = categories.category_id
GROUP BY categories.category_name;
```

-- 9. Average number of pizzas ordered per day

```
SELECT order_date, AVG(quantity) AS avg_pizzas
FROM order_details
JOIN orders ON order_details.order_id = orders.order_id
GROUP BY order_date;
```

-- 10. Top 3 pizzas by revenue

```
SELECT pizzas.name, SUM(pizzas.price * order_details.quantity) AS revenue
FROM order_details
JOIN pizzas ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizzas.name
ORDER BY revenue DESC
LIMIT 3;
```

-- 11. Percentage contribution of each pizza to total revenue

```
SELECT pizzas.name,  
       ROUND(SUM(pizzas.price * order_details.quantity) * 100.0 /  
             (SELECT SUM(pizzas.price * order_details.quantity)  
              FROM order_details  
              JOIN pizzas ON order_details.pizza_id = pizzas.pizza_id), 2)  
       AS revenue_percent  
FROM order_details  
JOIN pizzas ON order_details.pizza_id = pizzas.pizza_id  
GROUP BY pizzas.name  
ORDER BY revenue_percent DESC;
```

-- 12. Cumulative revenue over time

```
SELECT order_date,  
       SUM(pizzas.price * order_details.quantity) AS daily_revenue,  
       SUM(SUM(pizzas.price * order_details.quantity)) OVER (ORDER BY order_date) AS  
cumulative_revenue  
FROM orders  
JOIN order_details ON orders.order_id = order_details.order_id  
JOIN pizzas ON order_details.pizza_id = pizzas.pizza_id  
GROUP BY order_date;
```

-- 13. Top 3 pizzas by revenue in each category

```
SELECT category_name, name, revenue FROM (  
    SELECT c.category_name, p.name,  
           SUM(p.price * od.quantity) AS revenue,  
           ROW_NUMBER() OVER (PARTITION BY c.category_name ORDER BY SUM(p.price * od.quantity)  
DESC) AS rank  
    FROM order_details od  
    JOIN pizzas p ON od.pizza_id = p.pizza_id  
    JOIN categories c ON p.category_id = c.category_id
```

```
GROUP BY c.category_name, p.name  
) AS ranked  
WHERE rank <= 3;
```