

-- retrieve the total number of orders placed

```
select count(order_id) as total_orders from orders;
```

-- calculate total revenue generated from pizza sales

```
select round(sum(order_details.quantity * pizzas.price), 2) as total_revenue
```

```
from pizzas join order_details
```

```
on order_details.pizza_id=pizzas.pizza_id;
```

-- 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;
```

-- identify the most common pizza size ordered

```
select pizzas.size, count(order_details.order_details_id) as order_count
```

```
from pizzas join order_details
```

```
on pizzas.pizza_id=order_details.pizza_id
```

```
group by pizzas.size order by order_count desc limit 1;
```

-- list the 5 most ordered pizza types along with their quantities

```
select pizza_types.pizza_type_id, sum(order_details.quantity) as total_quantities
```

```
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.pizza_type_id order by total_quantities desc limit 5;
```

```
-- join necessary tables to find total quantity of each category ordered
select pizza_types.category, sum(order_details.quantity) as total_quantity
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;
```

```
-- determine the distribution of orders by hour of the day
select hour(order_time)as hour, count(order_id) as order_count from orders
group by hour(order_time);
```

```
-- join relevant table to find the category-wise distribution of pizzas
select category, count(name) from pizza_types group by category;
```

```
-- Group the orders by date and calculate the average number of pizzas ordered per day.
select round(avg(quantity), 2) from
(select orders.order_date, sum(order_details.quantity) as quantity
from orders join order_details
on orders.order_id=order_details.order_id
group by orders.order_date) as ordered_quantity;
```

```
-- determine top 3 most ordered pizza based on revenue = cost*quantity
select pizza_types.name, sum(pizzas.price*order_details.quantity) as revenue
from pizzas join order_details
on pizzas.pizza_id=order_details.pizza_id
```

```
join pizza_types on pizza_types.pizza_type_id=pizzas.pizza_type_id
group by pizza_types.name order by revenue desc limit 3;
```

-- calculate the percentage contribution to each pizza to total revenue

```
SELECT
```

```
    pizza_types.category,
```

```
    round((SUM(pizzas.price * order_details.quantity) /
```

```
        (SELECT
```

```
            SUM(order_details.quantity * pizzas.price)
```

```
        FROM
```

```
            order_details
```

```
        JOIN pizzas ON pizzas.pizza_id = order_details.pizza_id
```

```
        ) * 100), 2) AS percentage_contribution
```

```
FROM
```

```
    pizzas
```

```
    JOIN order_details ON pizzas.pizza_id = order_details.pizza_id
```

```
    JOIN pizza_types ON pizza_types.pizza_type_id = pizzas.pizza_type_id
```

```
GROUP BY pizza_types.category
```

```
ORDER BY percentage_contribution DESC;
```

-- analyze the cumulative revenue generated overtime

```
select order_date, sum(revenue) over(order by order_date) as revenue
```

```
from
```

```
(select orders.order_date, sum(order_details.quantity*pizzas.price) as revenue
```

```
from order_details join pizzas
```

```
on order_details.pizza_id=pizzas.pizza_id
join orders
on orders.order_id=order_details.order_id
group by orders.order_date) as sales;
```

-- determine the top 3 most ordered pizza types based on revenue for each pizza category

```
SELECT
    category,
    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(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 ranked_pizzas
WHERE
    rn <= 3;
```