

Analyzing Pizza Sales with ⁰⁻SQL



In this project, we delve into the world of pizza sales analysis using SQL to uncover valuable insights, to analyze a comprehensive dataset encompassing various aspects of pizza sales, including but not limited to sales figures, most selling, popular toppings.





Retrieve the total number of orders placed.

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

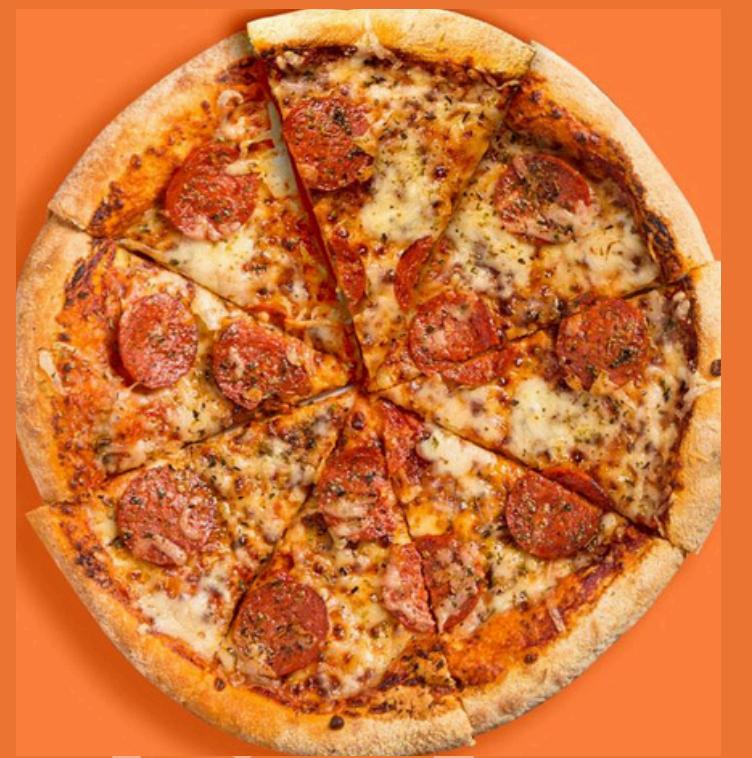




```
SELECT  
    ROUND(SUM(order_details.quantity * pizzas.price),  
        2) AS total_sales  
  
FROM  
    order_details  
    JOIN  
    pizzas ON pizzas.pizza_id = order_details.pizza_id
```

Calculate the total revenue generated from pizza sales.





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;
```



List the top 5 most ordered pizza types along with their quantities.

```
SELECT
    pizza_types.name, SUM(order_details.quantity) AS 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.name
ORDER BY quantity DESC
LIMIT 5;
```



Join the necessary tables to find the total quantity of each pizza category ordered.

```
SELECT  
    pizza_types.category,  
    SUM(order_details.quantity) AS 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  
ORDER BY quantity DESC;
```



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);
```





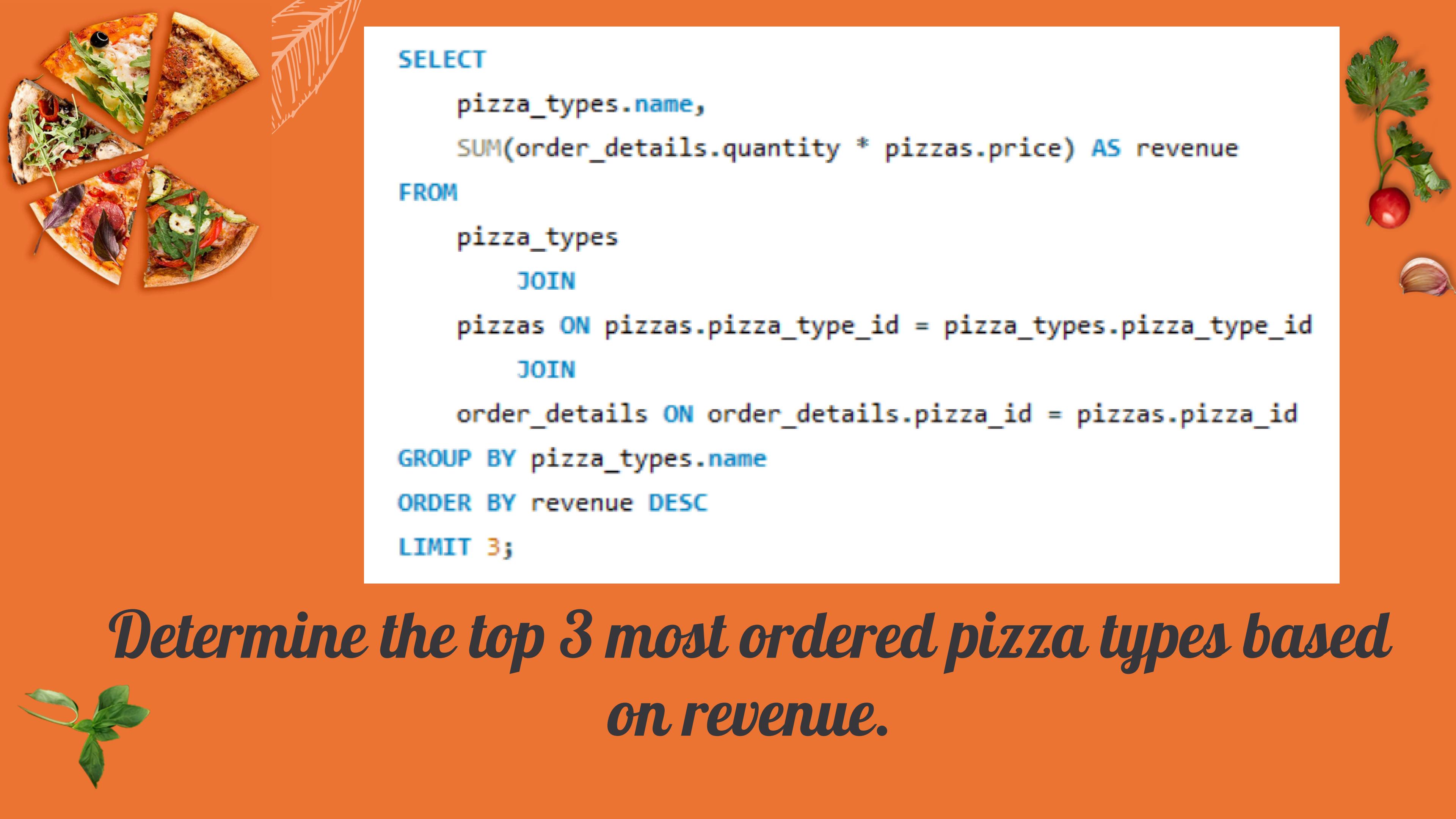
```
Select category, count(name) from pizza_types  
group by category;
```

Join relevant tables to find the category-wise distribution of pizzas.



```
SELECT  
    ROUND(AVG(order_quantity.quantity), 0)  
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 order_quantity;
```

Group the orders by date and calculate the average number of pizzas ordered per day.



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

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

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



```
SELECT
    pizza_types.category,
    ROUND((SUM(order_details.quantity * pizzas.price) /
    (SELECT SUM(order_details.quantity * pizzas.price) AS total_sales
     FROM order_details JOIN pizzas ON pizzas.pizza_id = order_details.pizza_id)) * 100, 2) 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
ORDER BY revenue DESC;
```

Analyze the cumulative revenue generated over time.

```
SELECT  
    sales.order_date,  
    SUM(sales.revenue) OVER (ORDER BY sales.order_date) AS cum_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;
```

