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SQL PROJECT 2

Pizza_Sales_Project



Automatic video captions available.



• Database

Database is a collection of table that contains the valuable information that is going to used in formation of project and company analysis.

In which SQL is the source where we are going to write or read the table in database



Executive Summary

Table Name : ORDER_DETAILS

order_details_id

order_id

pizza_id

quantity



Executive Summary

Table Name : ORDERS

order_id

date

time



Executive Summary

Table Name : PIZZA_TYPES

pizza_types_id

category

name

ingredients



Executive Summary

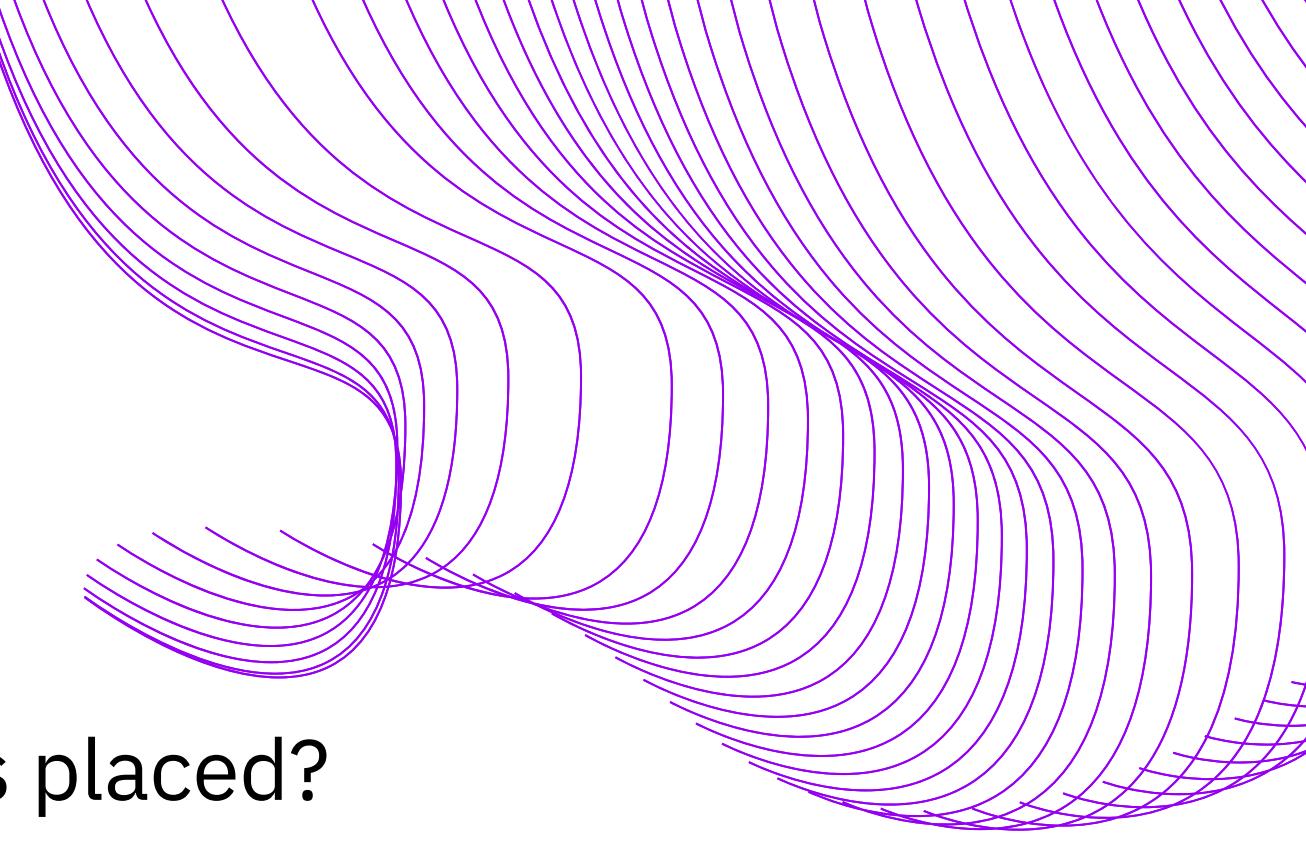
Table Name : PIZZAS

pizza_id

pizza_types_id

size

price



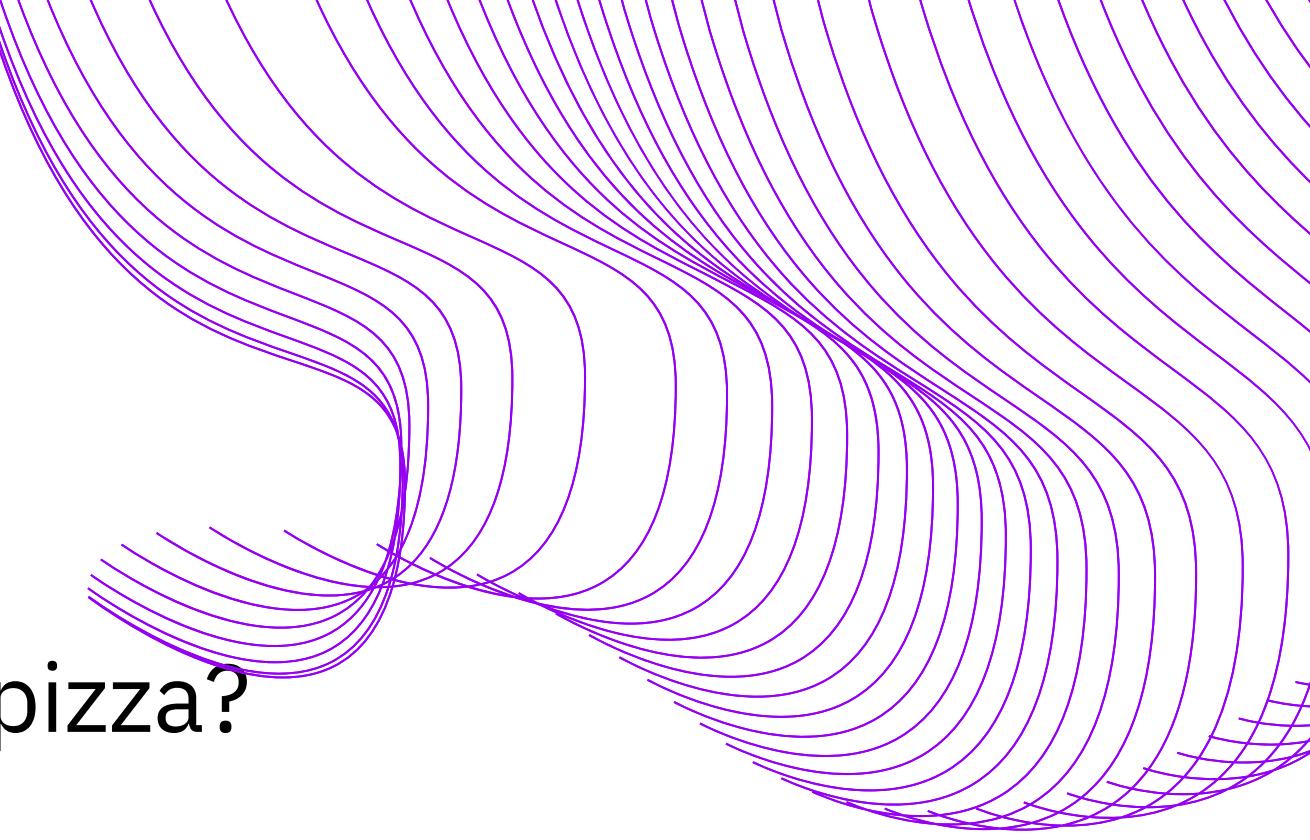
Question 1: Retrieve the total number of orders placed?

```
SELECT SUM(order_id) FROM order_details;
```



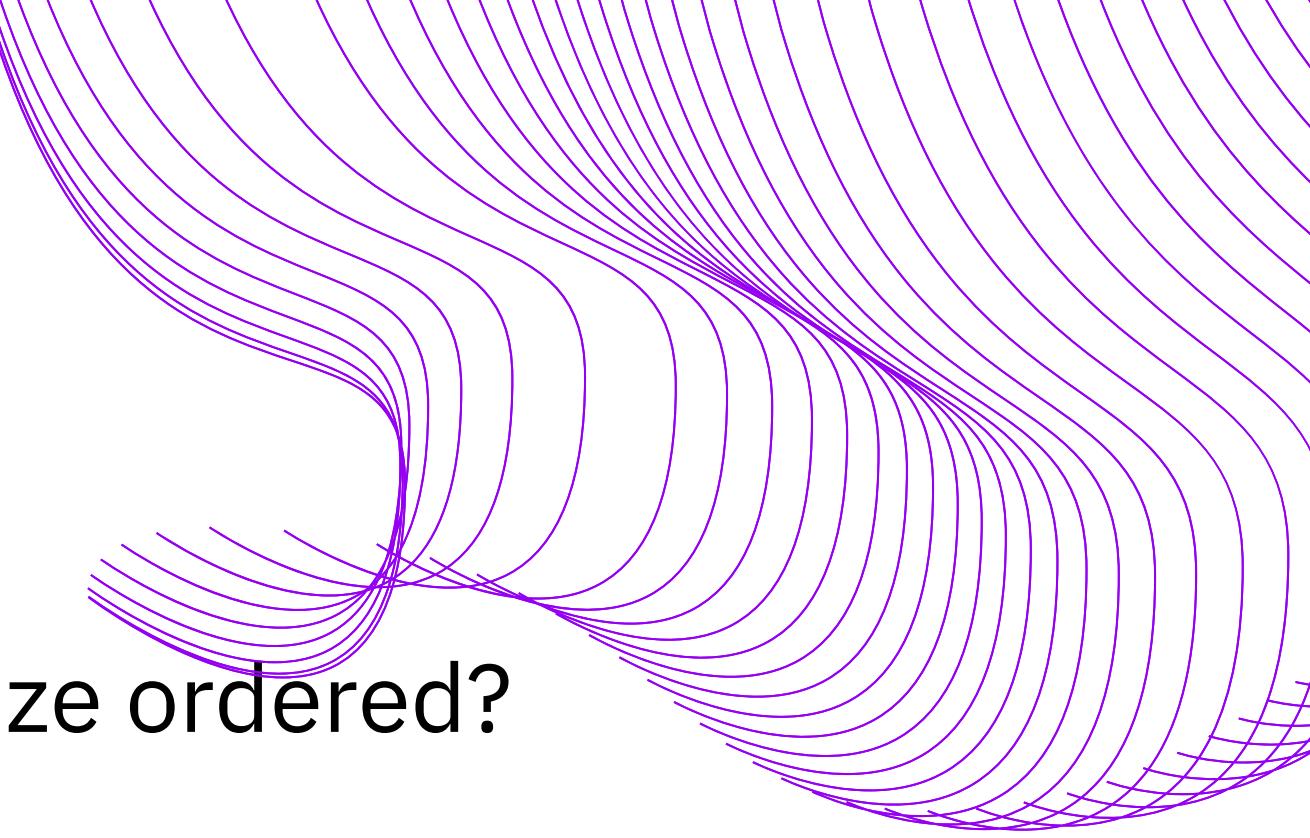
Question 2: Calculate the total revenue generated from pizza sales?

```
SELECT SUM(order_details.quantity*pizzas.price) AS revenue  
FROM order_details  
JOIN pizzas ON order_details.pizza_id = pizzas.pizza_id;
```



Question 3: 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  
GROUP BY pizza_types.name, pizzas.price  
ORDER BY pizzas.price  
LIMIT 1;
```



Question 4: Identify the most common pizza size ordered?

```
SELECT * FROM order_details;  
SELECT pizzas.size, COUNT(order_details.order_details_id) AS order_details_id  
FROM order_details JOIN pizzas  
ON order_details.pizza_id = pizzas.pizza_id  
GROUP BY pizzas.size  
ORDER BY pizzas.size;
```



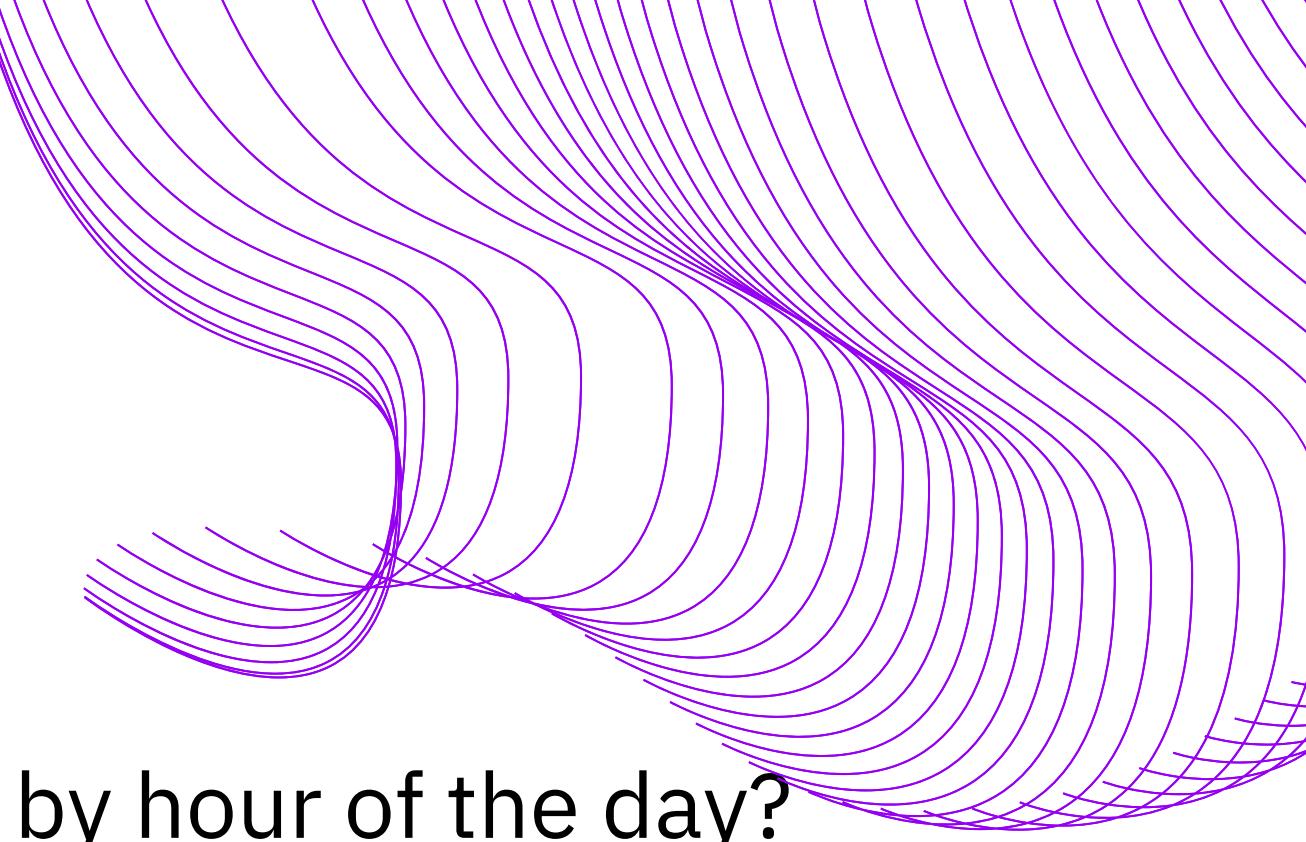
Question 5: List the top 5 most ordered pizza types along with their quantities?

```
SELECT * FROM pizza_types;  
SELECT pizzas.pizza_type_id, COUNT(order_details.quantity) AS quantity  
FROM pizzas JOIN order_details  
ON pizzas.pizza_id = order_details.pizza_id  
GROUP BY pizzas.pizza_type_id  
ORDER BY pizzas.pizza_type_id, quantity desc  
LIMIT 5;
```



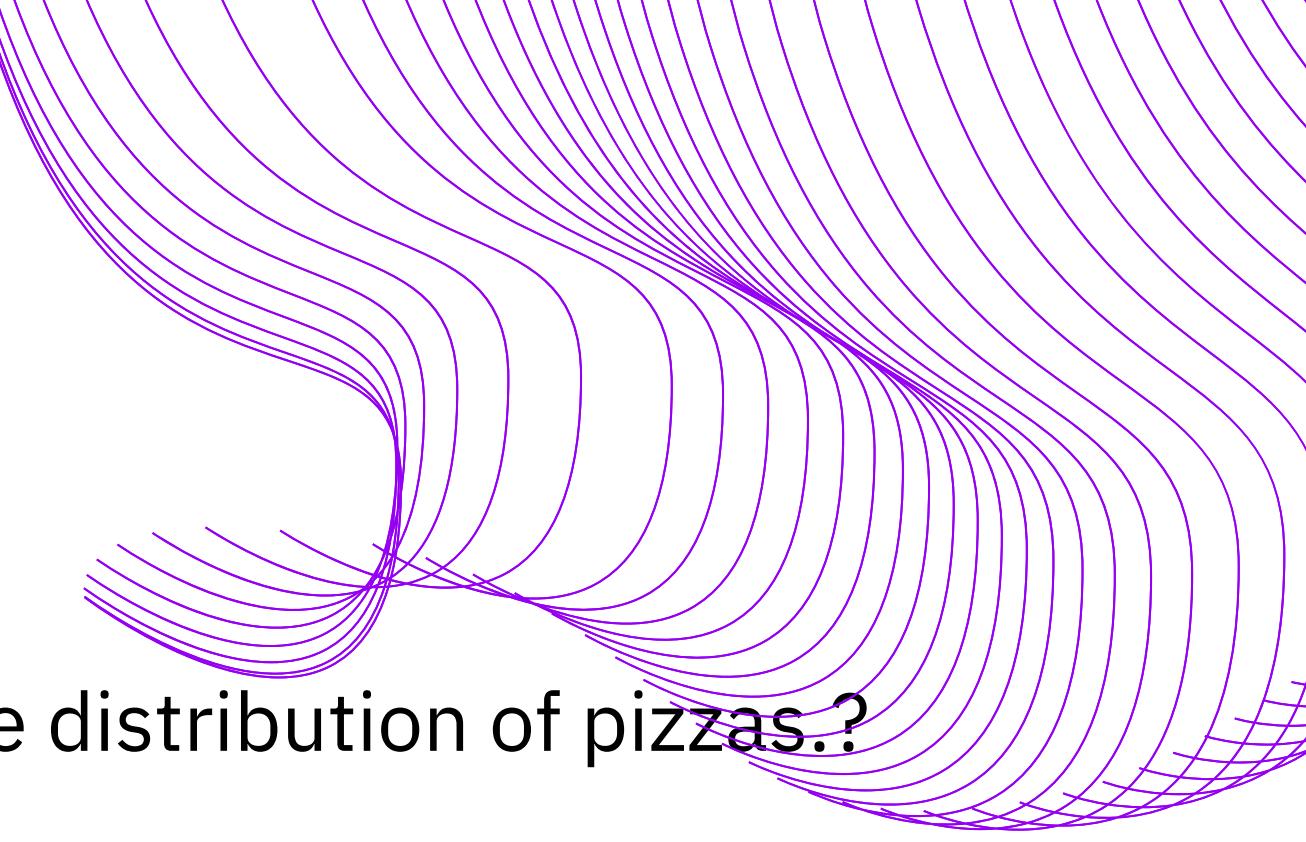
Question 6: Join the necessary tables to find the total quantity of each pizza category ordered?

```
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 pizzas.pizza_id = order_details.pizza_id  
GROUP BY pizza_types.category, quantity  
ORDER BY pizza_types.category, quantity ASC;
```



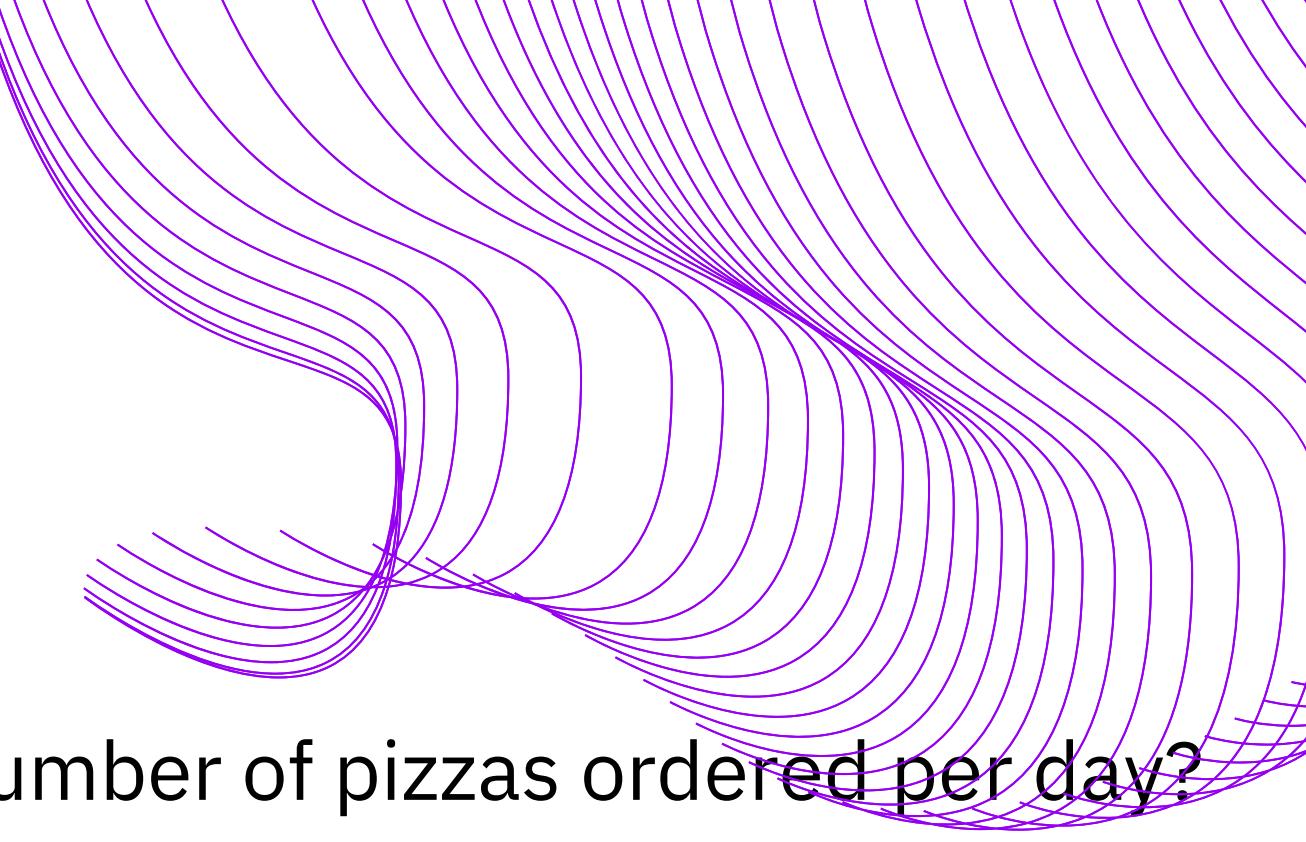
Question 7: Determine the distribution of orders by hour of the day?

```
SELECT HOUR(time), COUNT(order_id)  
FROM orders  
GROUP BY HOUR(time);
```



Question 8 : Join relevant tables to find the category-wise distribution of pizzas.?

```
SELECT COUNT(name), category  
FROM pizza_types  
GROUP BY category  
ORDER BY category;
```



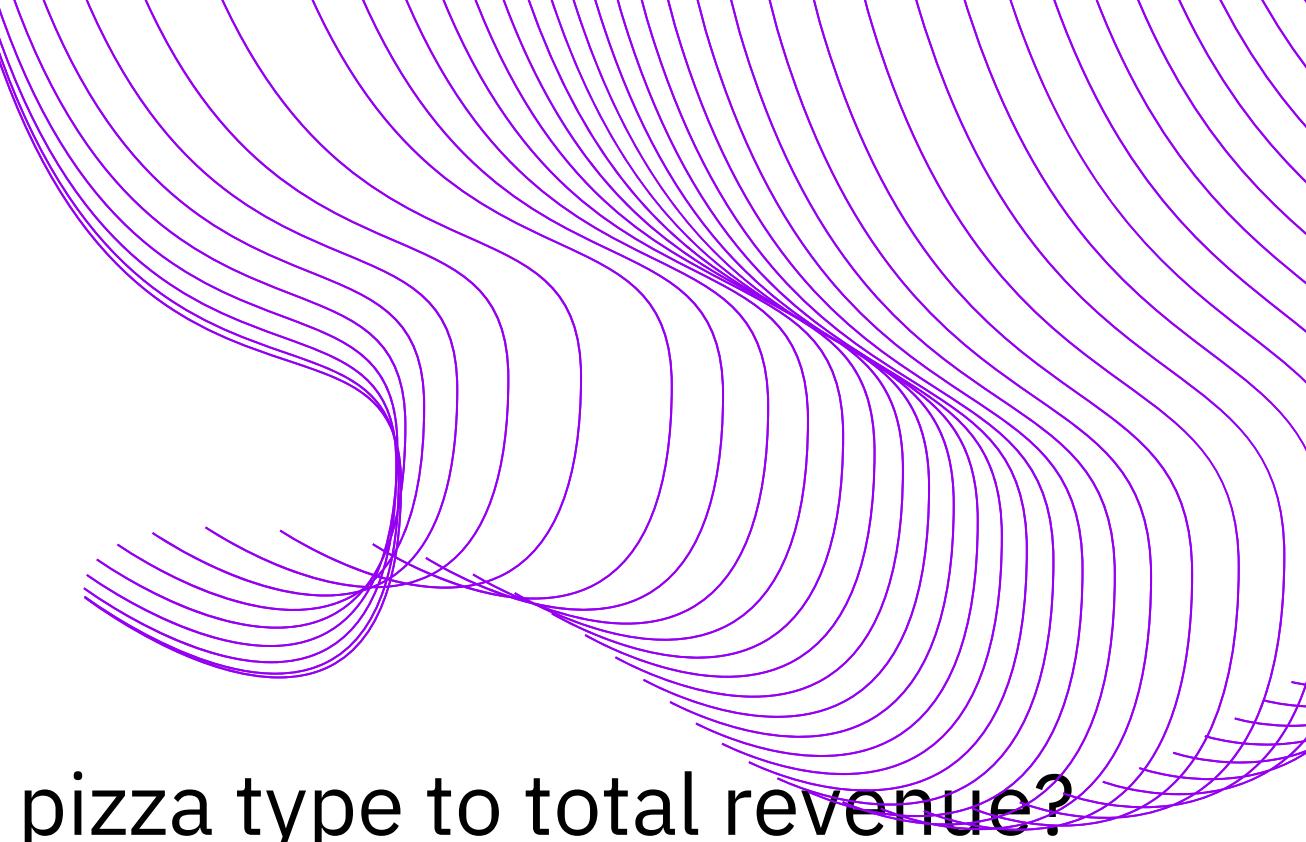
Question 9 : Group the orders by date and calculate the average number of pizzas ordered per day?

```
SELECT ROUND(AVG(quantity),0) FROM
(SELECT orders.date, SUM(order_details.quantity) AS quantity
FROM order_details JOIN orders
ON order_details.order_id = orders.order_id
GROUP BY orders.date
ORDER BY date) AS pizza_order;
```



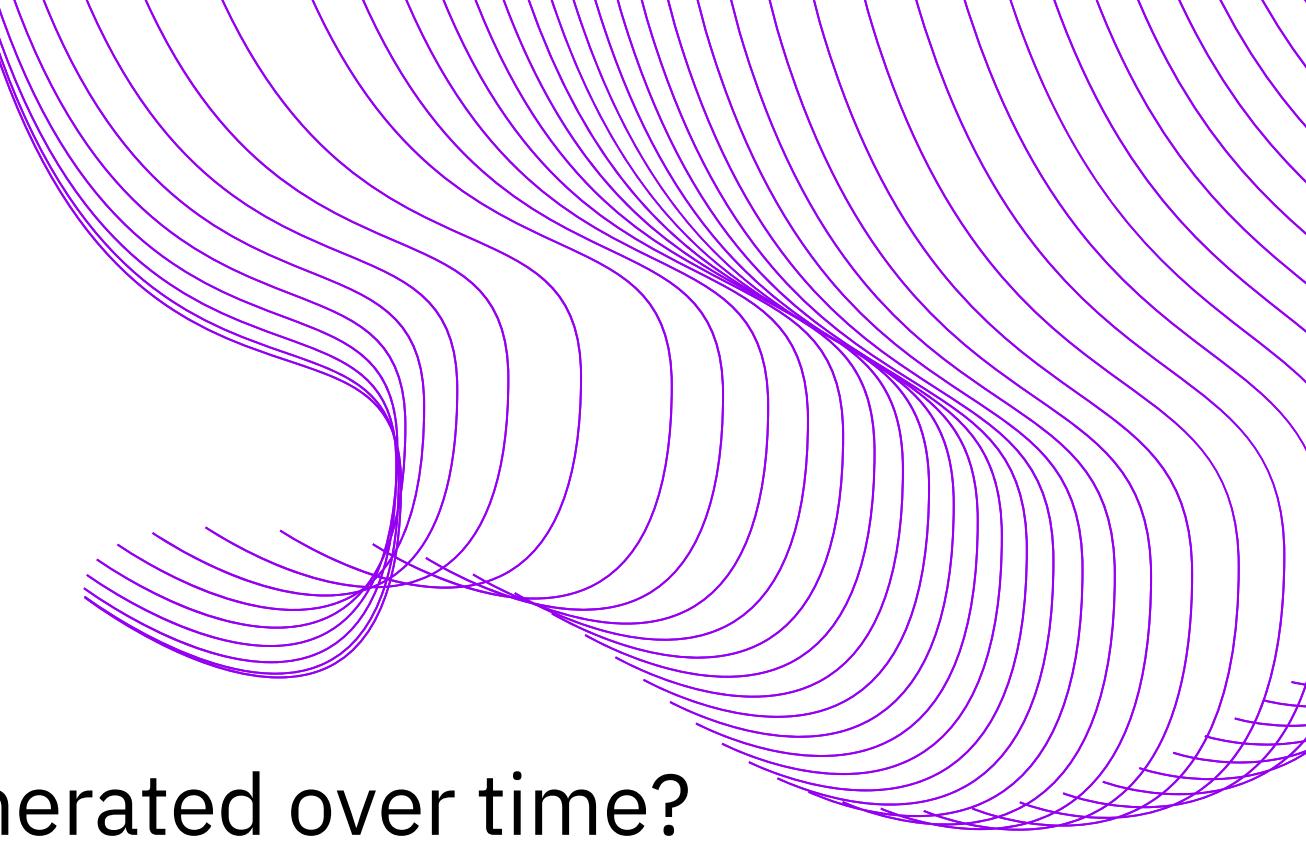
Question 10 : Determine the top 3 most ordered pizza types based on revenue?

```
SELECT pizza_types.name, SUM(pizzas.price*order_details.quantity) AS revenue
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.name
ORDER BY revenue DESC
LIMIT 3;
```



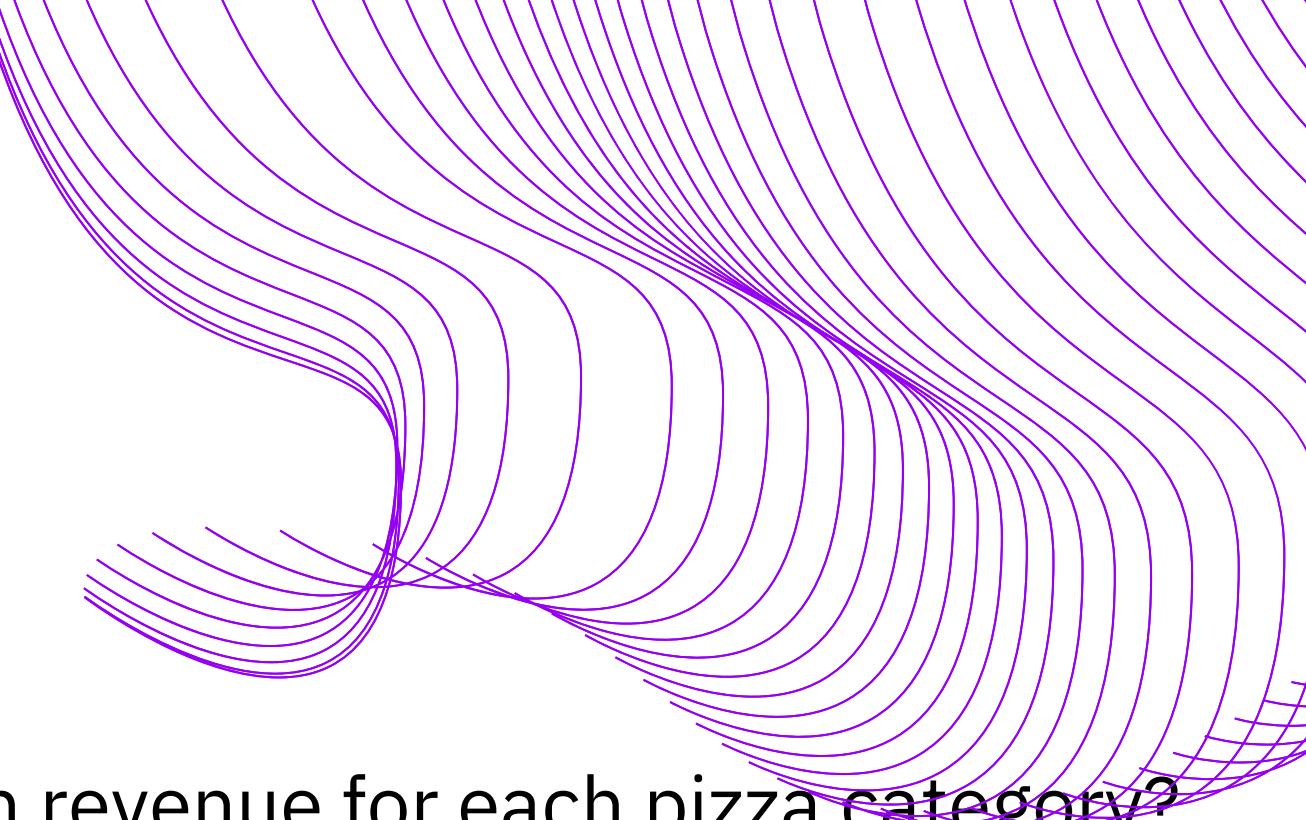
Question 11 : Calculate the percentage contribution of each pizza type to total revenue?

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



Question 12 : Analyze the cumulative revenue generated over time?

```
SELECT date, SUM(revenue) OVER (ORDER BY date) AS cum_revenue
FROM
(SELECT orders.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 order_details.pizza_id = pizzas.pizza_id
GROUP BY orders.date
ORDER BY orders.date) AS sales;
```



Question 13 : Determine the top 3 most ordered pizza types based on revenue for each pizza category?

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