-- Retrieving the total number of orders placed.

SELECT * FROM pizzaz ;

SELECT

   COUNT(order_id) as ORDERS_PLACED

FROM

   orders;

	ORDERS_PLACED
▶	21350

-- Calculating the total revenue generated from pizza sales.

SELECT

   SUM(order_details.quantity * pizzaz.price) AS total_sales

FROM

   order_details

     JOIN

   pizzaz ON pizzaz.pizza_id = order_details.pizza_id

	total_sales
▶	817860.049999993

-- Identifying the highest-priced pizza.

SELECT

   pizzas_type.name, pizzaz.price

FROM

   pizzas_type

     JOIN

   pizzaz ON pizzas_type.pizza_type_id = pizzaz.pizza_type_id;

ORDER BY pizzaz.price desc limit 1;

	name	price
▶	The Barbecue Chicken Pizza	12.75
	The Barbecue Chicken Pizza	16.75
	The Barbecue Chicken Pizza	20.75
	The California Chicken Pizza	12.75
	The California Chicken Pizza	16.75
	The California Chicken Pizza	20.75
	The Chicken Alfredo Pizza	12.75
	The Chicken Alfredo Pizza	16.75
	The Chicken Alfredo Pizza	20.75
	The Chicken Pesto Pizza	12.75
	The Chicken Pesto Pizza	16.75
	The Chicken Pesto Pizza	20.75
	The Southwest Chicken Pizza	12.75
	The Southwest Chicken Pizza	16.75
	The Southwest Chicken Pizza	20.75
	The Thai Chicken Pizza	12.75
	The Thai Chicken Pizza	16.75

-- Identifying the most common pizza size ordered.

SELECT

   quantity, COUNT(order_details_id)

FROM

   order_details

GROUP BY quantity;

SELECT

   pizzaz.size, COUNT(order_details_id)

FROM

   pizzaz

      JOIN

   order_details ON pizzaz.pizza_id = order_details.pizza_id

GROUP BY pizzaz.size

ORDER BY COUNT(order_details_id) DESC;

	size	COUNT(order_details_id)
▶	L	18526
	M	15385
	S	14137
	XL	544
	XXL	28

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

```sql
SELECT
    pizzas_type.name, SUM(order_details.quantity)
FROM
    pizzas_type
        JOIN
    pizzaz ON pizzas_type.pizza_type_id = pizzaz.pizza_type_id
        JOIN
    order_details ON order_details.pizza_id = pizzaz.pizza_id
GROUP BY pizzas_type.name
ORDER BY SUM(order_details.quantity) DESC
LIMIT 5;
```

name	SUM(order_details.quantity)
The Classic Deluxe Pizza	2453
The Barbecue Chicken Pizza	2432
The Hawaiian Pizza	2422
The Pepperoni Pizza	2418
The Thai Chicken Pizza	2371

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

```sql
SELECT
    pizzas_type.category,
    SUM(order_details.quantity) AS quantity
FROM
    pizzas_type
        JOIN
    pizzaz ON pizzas_type.pizza_type_id = pizzaz.pizza_type_id
        JOIN
    order_details ON order_details.pizza_id = pizzaz.pizza_id
GROUP BY pizzas_type.category
```

ORDER BY quantity DESC;

	category	quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

-- Determining the distribution of orders by hour of the day.

SELECT

   HOUR(time), COUNT(order_id)

FROM

  orders

GROUP BY HOUR(time);

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

SELECT

  category,

COUNT(name)

FROM

  pizzas_type

GROUP BY category;

	category	COUNT(name)
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

-- Grouping 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

```
    orders

   JOIN order_details ON orders.order_id = order_details.order_id

   GROUP BY orders.date) AS order_quantity;
```

	ROUND(AVG(quantity),0)
▶	138

```
-- Determining the top 3 most ordered pizza types based on revenue.

SELECT

   pizzas_type.name,

   SUM(order_details.quantity * pizzaz.price) AS revenue

FROM

   pizzas_type

      JOIN

   pizzaz ON pizzaz.pizza_type_id = pizzas_type.pizza_type_id

      JOIN

   order_details ON order_details.pizza_id = pizzaz.pizza_id

GROUP BY pizzas_type.name

ORDER BY revenue DESC

LIMIT 3;
```

	name	revenue
▶	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5

```
-- Determining the top 3 most ordered pizza types based on revenue for each pizza category.

SELECT name, revenue

FROM

(SELECT category, name, revenue,

rank() over(partition by category order by revenue desc) as rn

FROM

(SELECT pizzas_type.category, pizzas_type.name,

sum((order_details.quantity) * pizzaz.price) as revenue

FROM pizzas_type JOIN pizzaz
```

ON pizzas_type.pizza_type_id = pizzaz.pizza_type_id

join order_details

ON order_details.pizza_id = pizzaz.pizza_id

GROUP BY pizzas_type.category, pizzas_type.name) as a) as b

WHERE rn <= 3;

name	revenue
The Thai Chicken Pizza	43434.25
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41409.5
The Classic Deluxe Pizza	38180.5
The Hawaiian Pizza	32273.25
The Pepperoni Pizza	30161.75
The Spicy Italian Pizza	34831.25
The Italian Supreme Pizza	33476.75
The Sicilian Pizza	30940.5
The Four Cheese Pizza	32265.70000000065
The Mexicana Pizza	26780.75
The Five Cheese Pizza	26066.5