



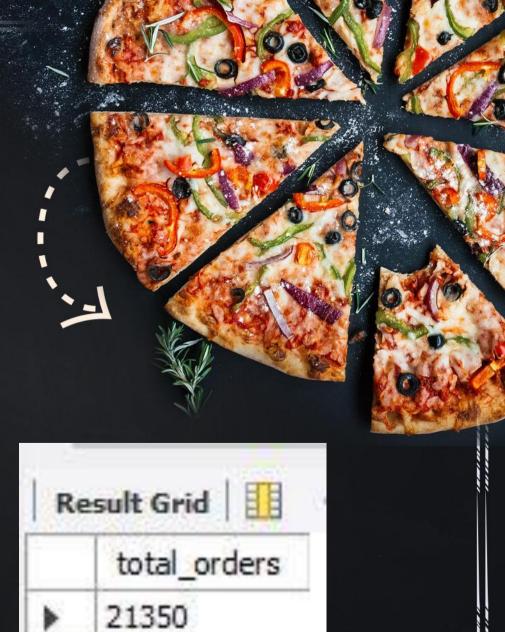
#### **QUESTIONS**

- 1) Retrieve the total number of orders placed.
- 2) Calculate the total revenue generated from pizza sales.
- 3) Identify the highest-priced pizza.
- 4) Identify the most common pizza size ordered.
- 5) List the top 5 most ordered pizza types along with their quantities.
- 6) Join the necessary tables to find the total quantity of each pizza category ordered.
- 7) Determine the distribution of orders by hour of the day.
- 8) Join relevant tables to find the category-wise distribution of pizzas.
- 9) Group the orders by date and calculate the average number of pizzas ordered per day.
- 10) Determine the top 3 most ordered pizza types based on revenue.
- 11) Calculate the percentage contribution of each pizza type to total revenue.
- 12) Analyze the cumulative revenue generated over time.
- 13) Determine the top 3 most ordered pizza types based on revenue for each pizza category.

#### 01 Retrieve the total number of orders placed.

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





## 02 Calculate the total revenue generated from pizza sales.







### 03 Identify the highest-priced pizza.







### 04 Identify the most common pizza size ordered.



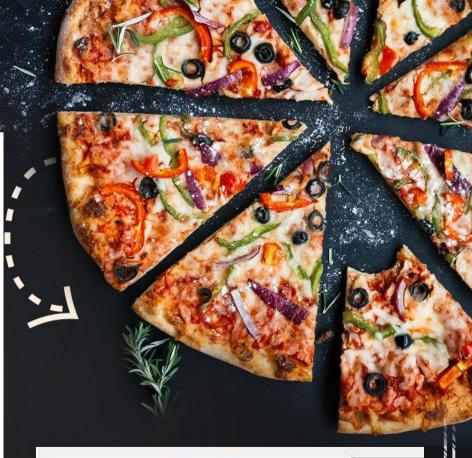


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	size	order_count
•	L	18526
	M	15385
	S	14137
	XL	544
	XXL	28

## 05 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;
```





esult Grid	-
name	quantity
The Classic Deluxe Pizza	2453
The Barbecue Chicken Pizza	2432
The Hawaiian Pizza	2422
The Pepperoni Pizza	2418
The Thai Chicken Pizza	2371

## 06 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;
```





R	esult Grid	1 63
	category	quantity
•	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

# 07 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);
```





Result Grid		d 🔠 🙌 Fi
	hour	order_count
>	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	100000000000000000000000000000000000000	R D De Leville

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

#### SELECT

category, COUNT(name)

#### **FROM**

pizza\_types

GROUP BY category;



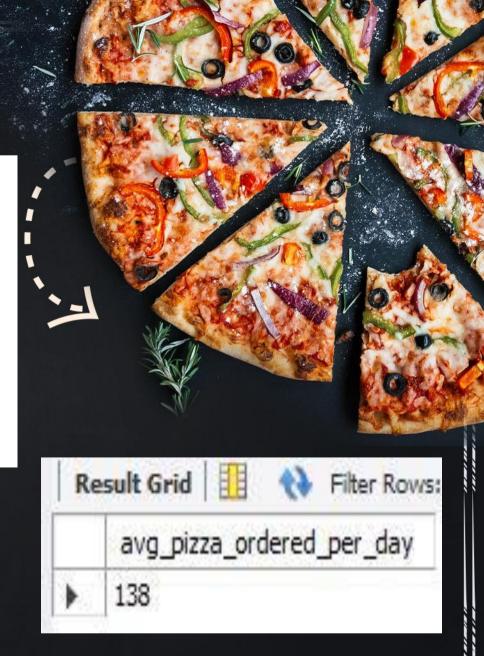


	Court Office	Filter R
	category	COUNT(name)
•	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

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

```
SELECT
    ROUND(AVG(quantity), 0) AS avg_pizza_ordered_per_day
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;
```





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

```
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;
```





R	esult Grid 🔠 🙌 Filter Ro	ws:
	name	revenue
•	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5

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

```
SELECT
   pizza types.category,
    ROUND((SUM(order details.quantity * pizzas.price) / (SELECT
                    ROUND(SUM(order details.guantity * pizzas.price),
                                2) AS total sales
                FROM
                    order details
                        JOIN
                    pizzas ON pizzas.pizza_id = order_details.pizza_id)) * 100,
            2) AS revenue percentage
FROM
    pizza_types
        TOTAL
    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_percentage DESC;
```



R	esult Grid	Filter Rows:
	category	revenue_percentage
•	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

### 12 Analyze the cumulative revenue generated over time.

```
SELECT order_date,

SUM(revenue) OVER (ORDER BY order_date) AS cum_revenue

FROM (

SELECT orders.order_date,

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

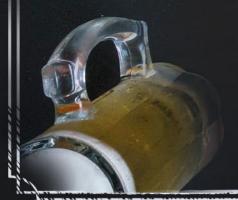
FROM order_details

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;
```





Re	esult Grid	N Filter Rows:
	order_date	cum_revenue
	2015-01-01	2713.85000000000004
	2015-01-02	5445.75
	2015-01-03	8108.15
	2015-01-04	9863.6
	2015-01-05	11929.55
	- Incompanies accion	

## 13 Determine 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 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 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

