

SQL PROJECT ON PIZZA SALES

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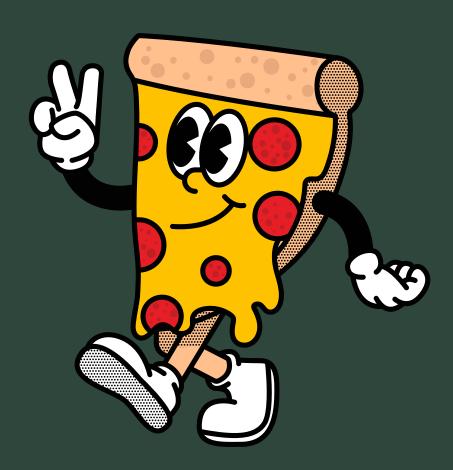
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HELLO!

My name is Rahul Raj. In this project, I have utilized SQL queries to analyze and solve various questions related to pizza sales. Through these queries, I targeted to uncover insights and trends that can enhance our understanding of sales performance and customer preferences.

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Schema Diagram



```
orders | | customers
  | id (PK)
           | | id (PK)
 |order_date | |name
| customer_id (FK) |<----| email
         order_items
         | id (PK)
      | pizza_id (FK)
        | quantity
          pizzas
        | id (PK)
        name
        | price
         size
     | category_id (FK) |----+
        | pizza_categories |
         | id (PK)
          name
         +----+
```

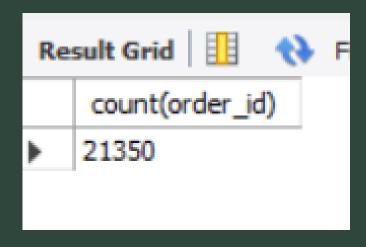
Retrieve the total number of orders placed.

```
SELECT

COUNT(order_id) AS total_orders

FROM

orders;
```



Calculate the total revenue generated from pizza sales.

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

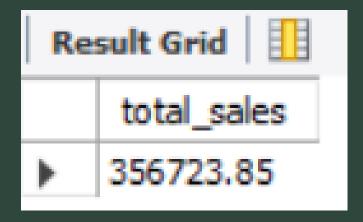
2) AS total_sales

FROM

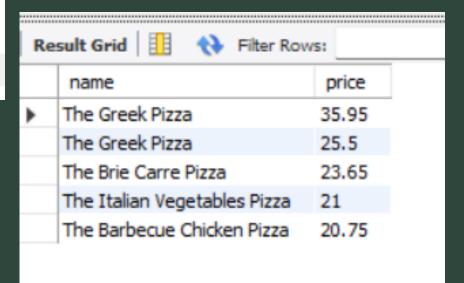
order_details

JOIN

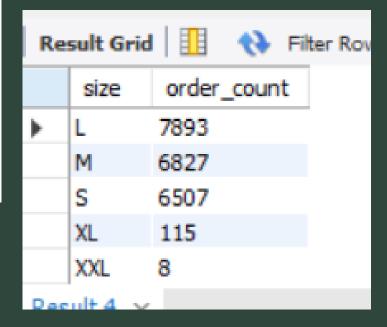
pizzas ON pizzas.pizza_id = order_details.pizza_id
```



Identify the highest-priced pizza.



Identify the most common pizza size ordered.



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
I TMTT 5:
```

name	quantity
The Barbecue Chicken Pizza	2329
The California Chicken Pizza	1721
The Big Meat Pizza	1695
The Classic Deluxe Pizza	1506
The Hawaiian Pizza	1166

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;
```

Res	sult Grid	H 🙌 File	ter Rows
	category	quantity	
•	Classic	6975	
	Chicken	6238	
	Veggie	4357	
	Supreme	4134	

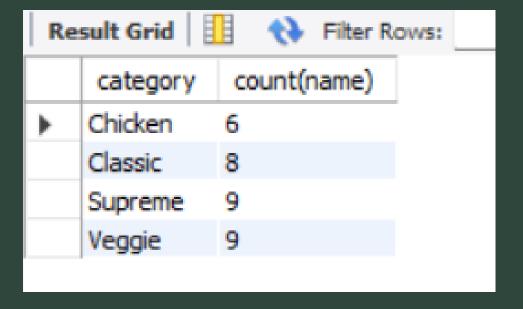
Determine the distribution of orders by hour of the day.

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

Re	sult Grid	♦ Filter Row
	HOUR(time)	order_count
•	11	1231
	12	2520
	13	2455
	14	1472
	15	1468

Join relevant tables to find the categorywise distribution of pizzas.

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

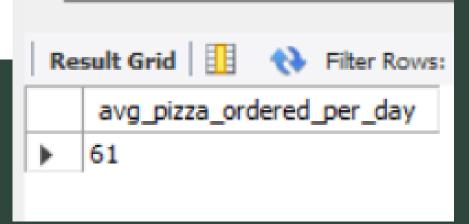


Group the orders by date and calculate the average number of pizzas ordered per day.

```
SELECT
    ROUND(AVG(quantity), 0) as avg_pizza_ordered_per_day

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;
```



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 sult Grid
                                                                            Filter Rows:
       JOIN
                                                              name
                                                                                              revenue
   order_details ON order_details.pizza_id = pizzas.pizza_id
                                                             The Barbecue Chicken Pizza
                                                                                             41230.75
GROUP BY pizza types.name
                                                             The California Chicken Pizza
                                                                                             30102.75
ORDER BY revenue DESC
                                                             The Classic Deluxe Pizza
                                                                                             23548
LIMIT 3;
```

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.quantity * pizzas.price),
                               AS total sales
                FROM
                    order_details
                        JOIN
                   pizzas ON pizzas.pizza_id = order_details.pizza_id) * 100,
            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.category
ORDER BY revenue DESC;
```

Re	sult Grid 🛚 🛚	**	Filter Row
	category	revenue	e
•	Chicken	30.8	
	Classic	28.06	
	Supreme	20.63	
	Veggie	20.51	

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:</pre>
```

Result Grid Filter Rows:			
	name	revenue	
•	The Barbecue Chicken Pizza	41230.75	
	The California Chicken Pizza	30102.75	
	The Chicken Alfredo Pizza	11606	
	The Classic Deluxe Pizza	23548	
	The Big Meat Pizza	20340	
	The Hawaiian Pizza	15546.5	
	The Italian Supreme Pizza	14359.75	
	The Calabrese Pizza	12463.5	
	The Brie Carre Pizza	9057.949999999937	
	The Four Cheese Pizza	17526.550000000232	
	The Five Cheese Pizza	15299.5	
	The Mexicana Pizza	9428.5	