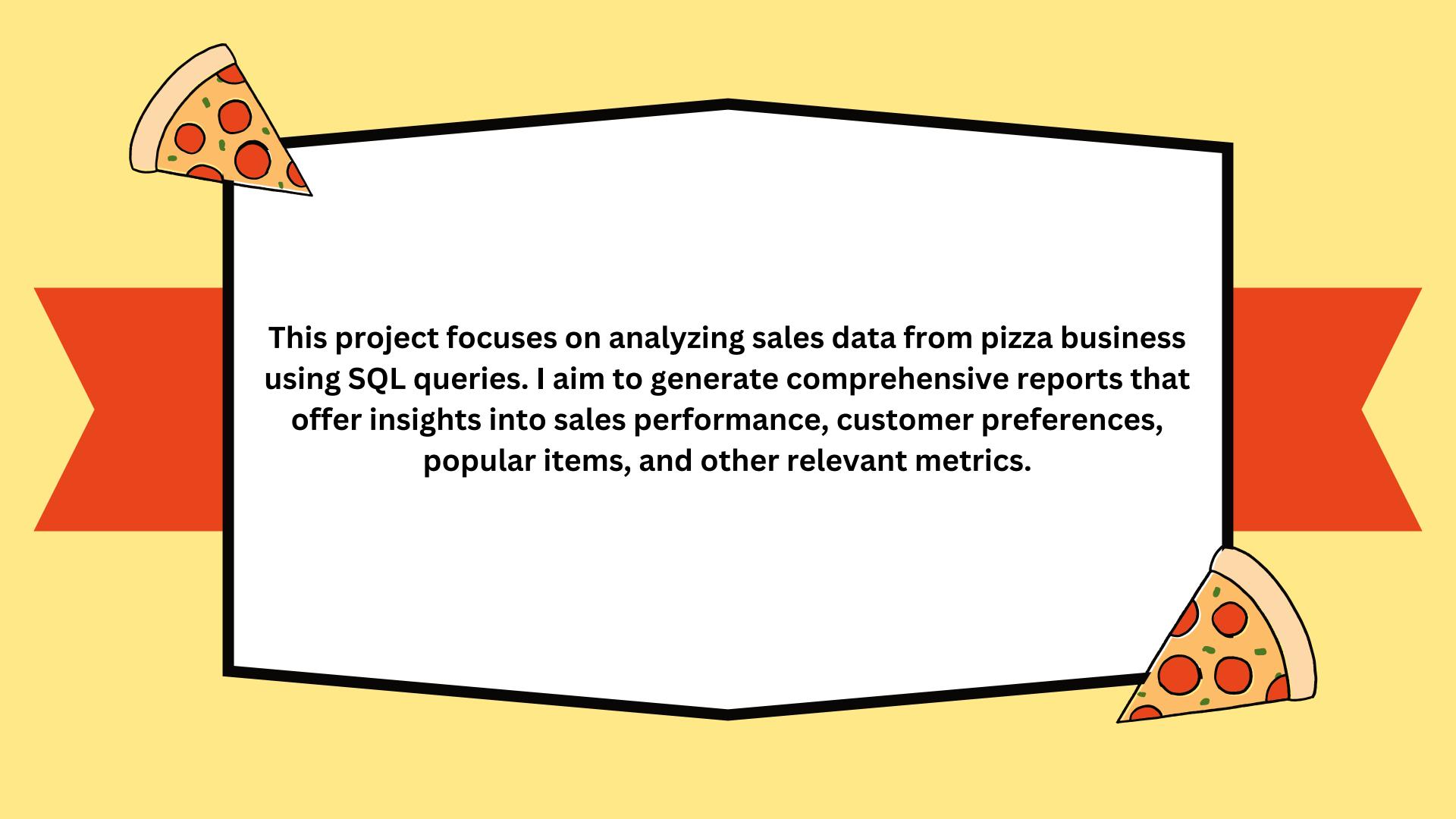
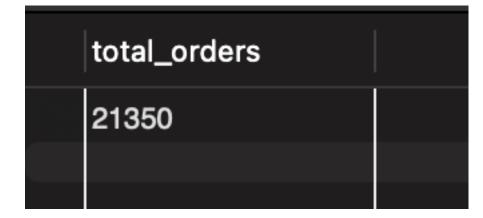


By: Modita



Retrieve the total number of orders placed.



Calculate the total revenue generated from pizza sales.

```
SELECT

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

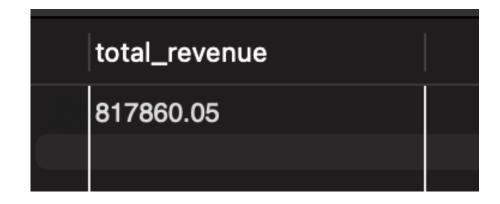
2) AS total_revenue

FROM

pizzas

INNER JOIN

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



Identify the highest-priced pizza.

```
SELECT

*
FROM

pizzas
ORDER BY price DESC
LIMIT 1;
```

pizza_id	pizza_type_id	size	price
the_greek_xxl	the_greek	XXL	35.95

Identify the most common pizza size ordered.

```
SELECT
    pizzas.size AS common_ordered_size,
    COUNT(pizzas.size) AS count_of_pizza
FROM
    pizzas
        INNER JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizzas.size
ORDER BY count_of_pizza DESC
LIMIT 1;
```

common_ordered_size	count_of_pizza	
L	18526	

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

```
SELECT
    pizza_types.name AS most_ordered_pizza_type,
    SUM(order_details.quantity) AS total_pizza_quantity
FROM
    pizzas
        INNER JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
        INNER JOIN
    pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
GROUP BY pizza_types.name
ORDER BY total_pizza_quantity DESC
LIMIT 5;
```

most_ordered_pizza_type	total_pizza_quantity	
The Classic Deluxe Pizza	2453	
The Barbecue Chicken Pizza	2432	
The Hawaiian Pizza	2422	
The Pepperoni Pizza	2418	
The Thai Chicken Pizza	2371	

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

```
SELECT
    pizza_types.category AS category_of_pizza,
    SUM(order_details.quantity) AS total_quantity
FROM
    order_details
        INNER JOIN
    pizzas ON order_details.pizza_id = pizzas.pizza_id
        INNER JOIN
    pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
GROUP BY pizza_types.category;
```

category_of_pizza	total_quantity	
Classic	14888	
Veggie	11649	
Supreme	11987	
Chicken	11050	

Determine the distribution of orders by hour of the day.

```
SELECT
   HOUR(order_time) AS hour_, COUNT(order_id) as no_of_orders
FROM
   orders
GROUP BY HOUR(order_time)
ORDER BY hour_;
```

hour_	no_of_orders
9	1
10	8
11	1231
12	2520
13	2455
14	1472
15	1468
16	1920
17	2336
18	2399
19	2009
20	1642
21	1198
22	663
23	28

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

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

category	distribution	
Chicken	6	
Classic	8	
Supreme	9	
Veggie	9	

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

```
SELECT
    ROUND(AVG(total_pizza), 0) AS avg_pizza_ordered_per_day
FROM

(SELECT
    orders.order_date AS date_,
        SUM(order_details.quantity) AS total_pizza
FROM
    orders
    INNER JOIN order_details ON orders.order_id = order_details.order_id
GROUP BY order_date) AS data;
```

```
avg_pizza_ordered_per_day
138
```

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

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

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_revenue
                FROM
                    pizzas
                        JOIN
                    order_details ON pizzas.pizza_id = order_details.pizza_id)) * 100),
            2) AS percentage
FROM
    pizzas
        JOIN
    pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
        INNER JOIN
   order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizza_types.category
ORDER BY percentage DESC;
```

category	percentage	
Classic	26.91	
Supreme	25.46	
Chicken	23.96	
Veggie	23.68	

Analyze the cumulative revenue generated over time for the first 5 days

```
select order_date, round(sum(revenue) over(order by order_date),2) as cum_rev
) from (
select orders.order_date,sum(order_details.quantity * pizzas.price) as revenue
from pizzas join order_details on pizzas.pizza_id=order_details.pizza_id
join orders on order_details.order_id = orders.order_id
- group by orders.order_date) as rev
order by order_date limit 5;
```

order_date	cum_rev	
2015-01-01	2713.85	
2015-01-02	5445.75	
2015-01-03	8108.15	
2015-01-04	9863.6	
2015-01-05	11929.55	

Determine the top 2 most ordered pizza types based on revenue for each pizza category.

```
with cte as (
select category,name,round(revenue,2) as revenue,
rank() over(partition by category order by revenue desc) as rnk_
from (
select pizza_types.category,pizza_types.name,
sum(order_details.quantity * pizzas.price) as revenue
from pizzas join pizza_types
on pizzas.pizza_type_id = pizza_types.pizza_type_id
join order_details on pizzas.pizza_id=order_details.pizza_id
group by pizza_types.category,pizza_types.name
) as rev_
)
select category,name,revenue from cte where rnk_<=2</pre>
```

category	name	revenue
Chicken	The Thai Chicken Pizza	43434.25
Chicken	The Barbecue Chicken Pizza	42768
Classic	The Classic Deluxe Pizza	38180.5
Classic	The Hawaiian Pizza	32273.25
Supreme	The Spicy Italian Pizza	34831.25
Supreme	The Italian Supreme Pizza	33476.75
Veggie	The Four Cheese Pizza	32265.7
Veggie	The Mexicana Pizza	26780.75



