SQL PIZZA SALES ANALYSIS





Objectives:

The objective of this SQL project is to analyze pizza sales data to extract meaningful business insights that can help optimize sales strategies, inventory management, and customer preferences. The project aims to: text



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Objectives:

• Analyze Order Trends – Retrieve the total number of orders placed and determine order distribution by hour and date.

• Revenue Insights – Calculate total revenue, identify top-performing pizza types by revenue, and analyze cumulative revenue over time.

 Product Performance Evaluation – Identify the highest-priced pizza, most ordered pizza sizes, and top-selling pizza types.

Category-wise Analysis – Determine the total quantity of pizzas ordered per category and analyze category-wise distribution.

• Performance Metrics – Calculate the percentage contribution of each pizza type to total revenue and assess average orders per day.

Data Integration – Utilize SQL joins to combine relevant tables and extract comprehensive insights.



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.



- 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 catego



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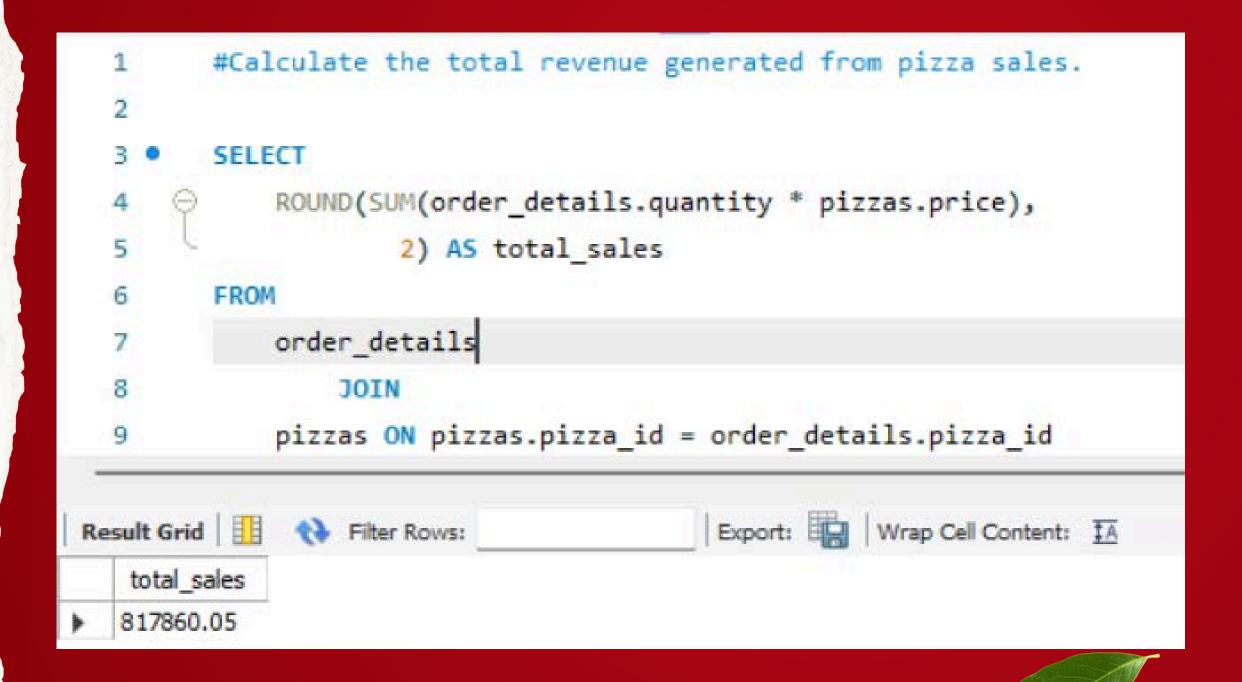


1. Retrieve the total number of orders placed.





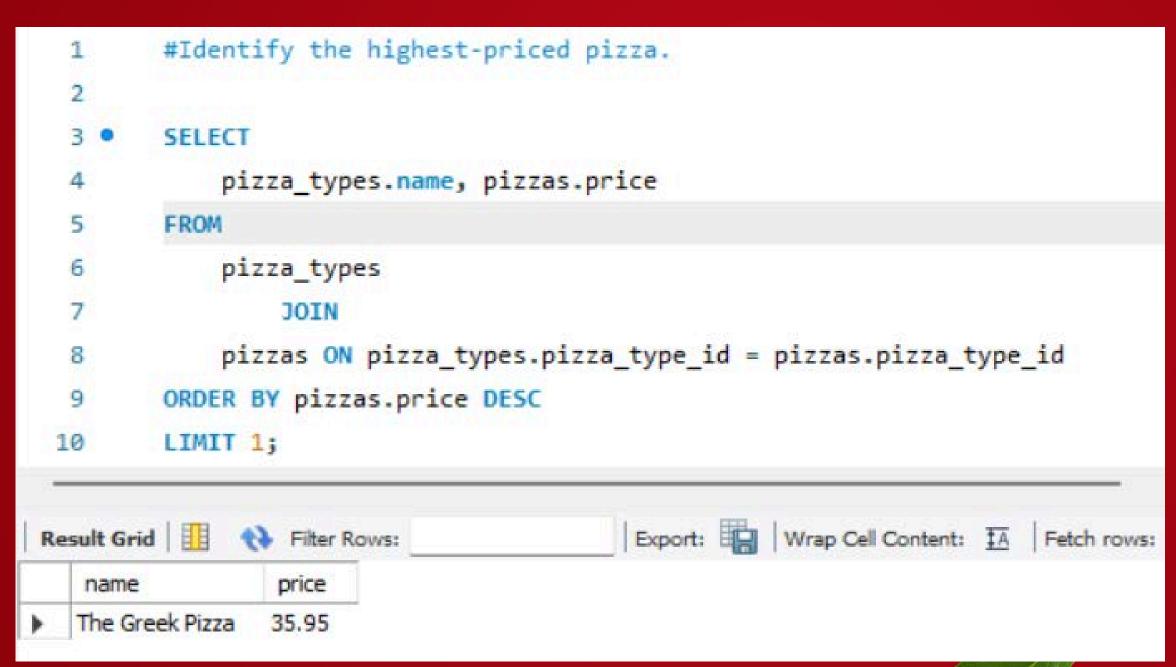






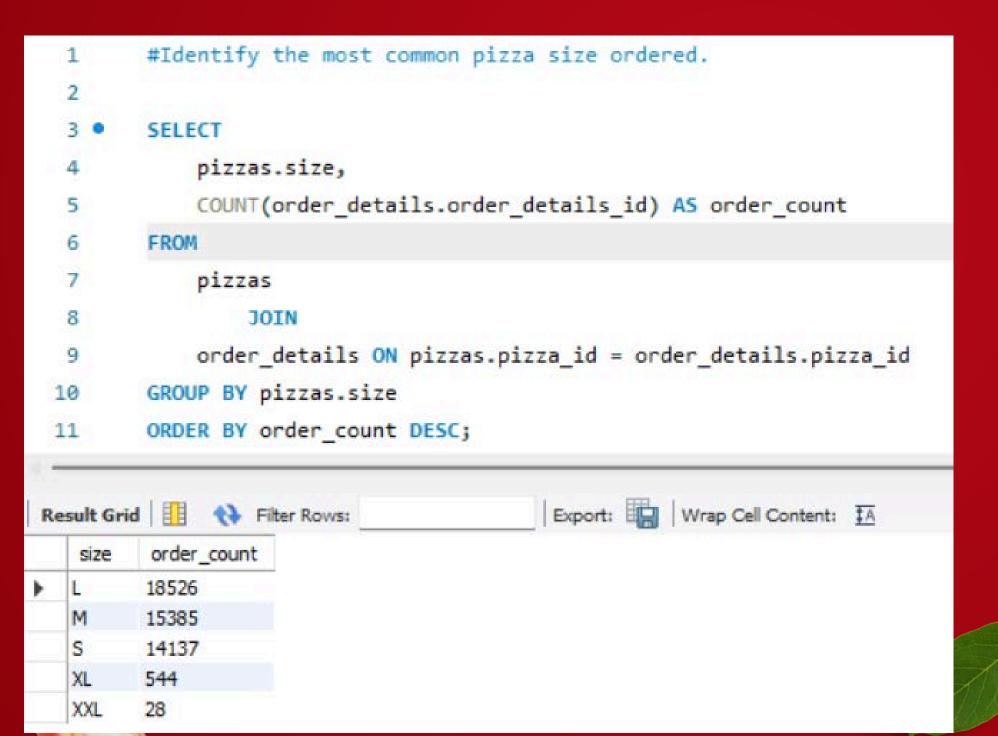


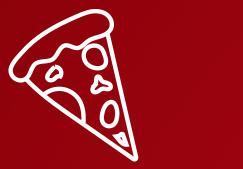
3. Identify the highest-priced pizza.





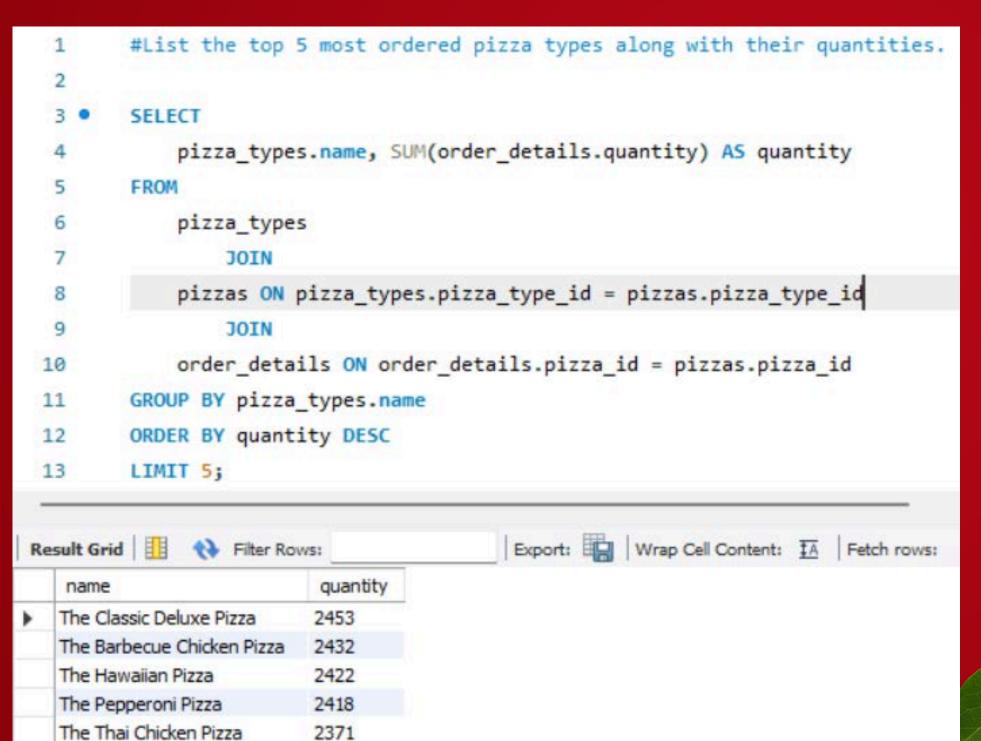








5. List the top 5 most ordered pizza types along with their quantities.





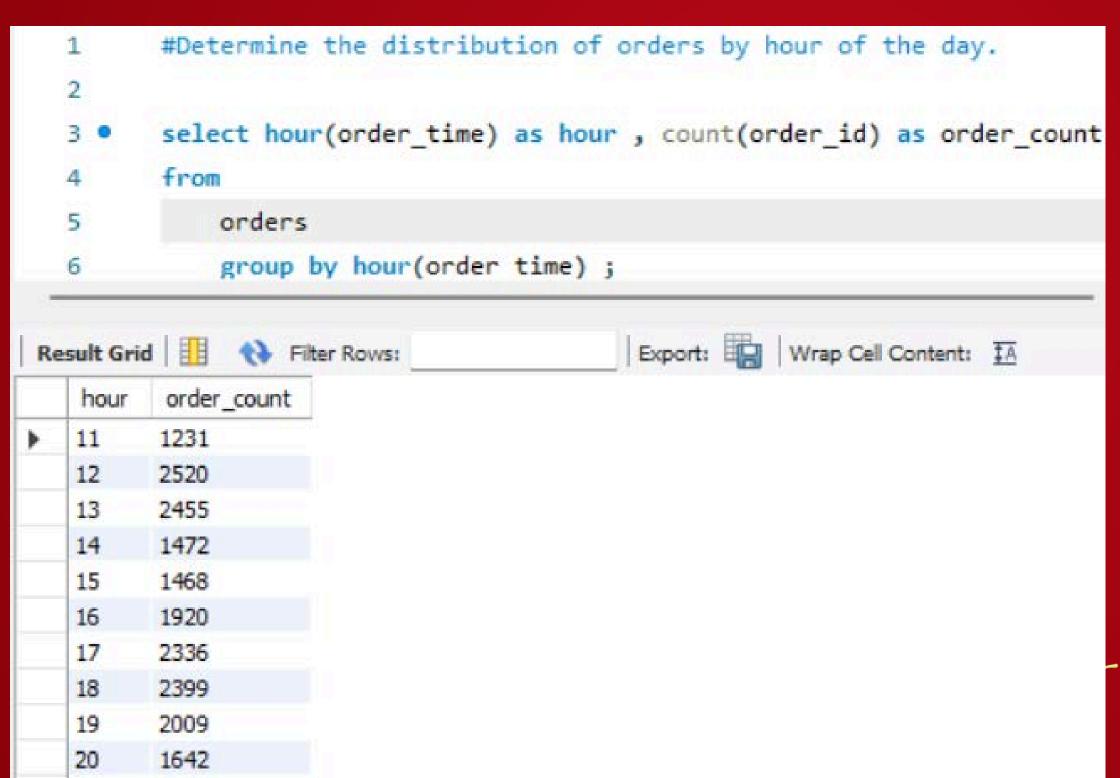


```
#Join the necessary tables to find the total quantity of each pizza category ordered.
        SELECT
             pizza_types.category, SUM(order_details.quantity) AS quantity
        FROM
             pizza_types
                 JOIN
             pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
                 JOIN
             order_details ON order_details.pizza_id = pizzas.pizza_id
 11
        GROUP BY pizza_types.category
 12
        ORDER BY quantity DESC;
                                          Export: Wrap Cell Content: IA
              Filter Rows:
Result Grid
            quantity
  Classic
            14888
  Supreme
           11987
           11649
  Veggie
  Chicken
           11050
```











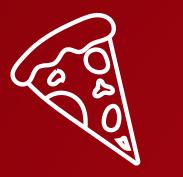




8. Join relevant tables to find the category-wise distribution of pizzas.

- #Join relevant tables to find the category-wise distribution of pizzas.
- 2
- 3 elect pizza_types.category , count(pizza_types.name) from pizza_types
- 4 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.order_date, SUM(order_details.quantity) AS quantity
  8
            FROM
                orders
            JOIN order_details ON orders.order_id = order_details.order_id
 10
            GROUP BY orders.order_date) AS order_quantity;
11
Result Grid
            Filter Rows:
                                         Export: Wrap Cell Content: IA
   avg_pizza_ordered_per_day
  138
```



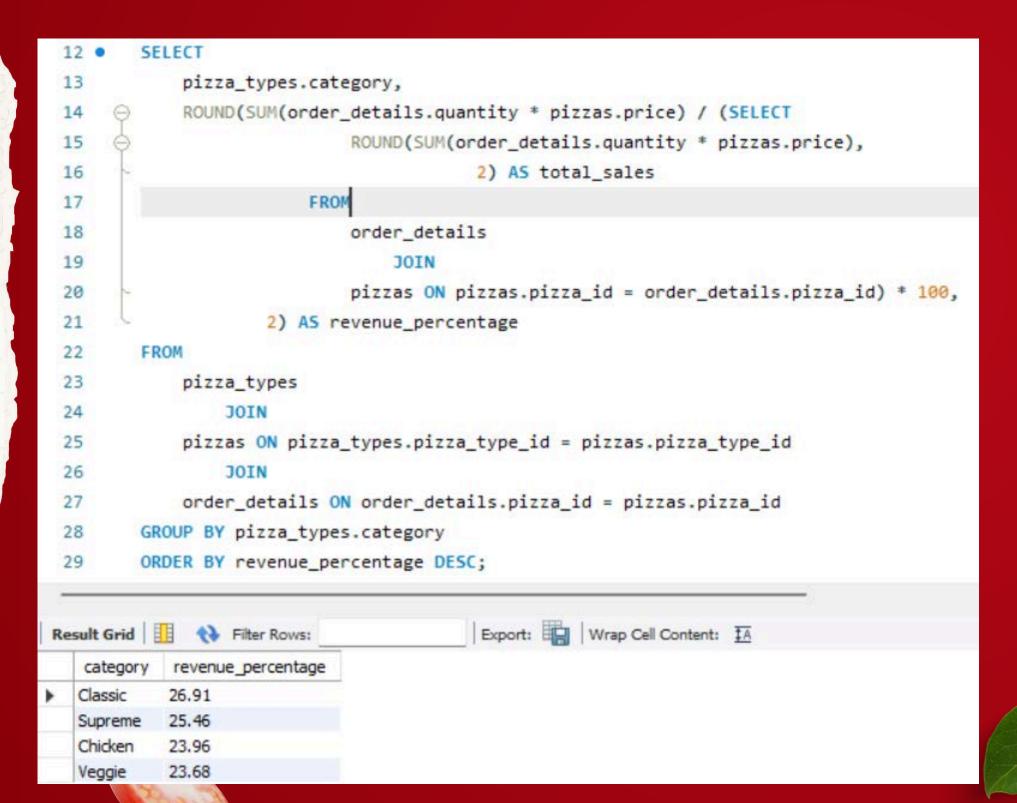


```
#Determine the top 3 most ordered pizza types based on revenue.
         select pizza_types.name ,
         sum(order_details.quantity*pizzas.price) as revenue
         from pizza_types join pizzas
         on pizzas.pizza_type_id = pizza_types.pizza_type_id
         join order_details
         on order_details.pizza_id = pizzas.pizza_id
         group by pizza_types.name order by revenue desc limit 3;
Result Grid Filter Rows:
                                           Export: Wrap Cell Content: TA Fetch rows:
   name
                          revenue
  The Thai Chicken Pizza
                         43434.25
  The Barbecue Chicken Pizza
                         42768
  The California Chicken Pizza
                         41409.5
```

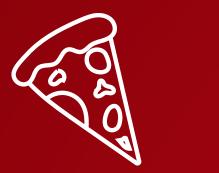




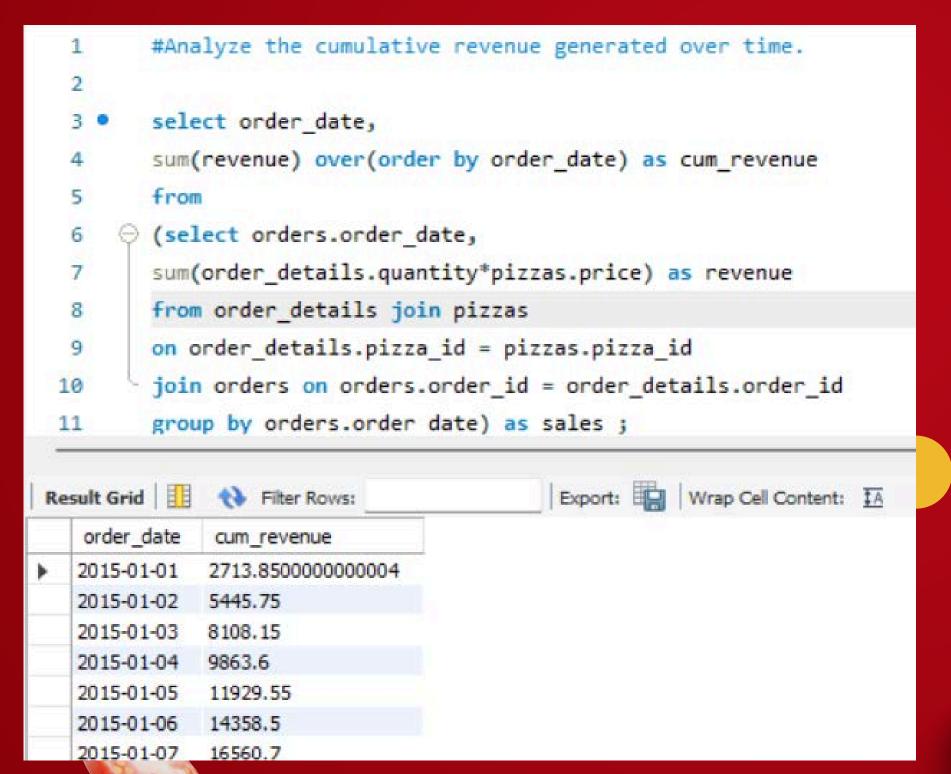
















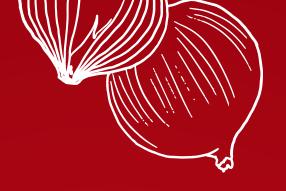
13. Determine the top 3 most ordered pizza types based on revenue for each pizza category.

```
#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
 10
        on pizza_types.pizza_type_id = pizzas.pizza_type_id
 11
        join order_details
12
13
        on order details.pizza id = pizzas.pizza id
        group by pizza_types.category, pizza_types.name) as a ) as b
        where rn <= 3;
Result Grid Filter Rows:
                                           Export: Wrap Cell Content: TA
                         revenue
  The Thai Chicken Pizza
                         43434.25
  The Barbecue Chicken Pizza
                         42768
  The California Chicken Pizza
                        41409.5
```

KEY INSIGHTS OF PIZZA_SALES:

- 1.Strong Sales Performance: A total of 21,350 orders generated \$817,860 in sales.
- 2.The average order value is approximately \$38.31 ($$817,860 \div 21,350$).
- 3. Popular Pizza Trends: Greek Pizza is the most expensive at \$35.95, indicating a premium offering. The most ordered pizza size is "L", showing customer preference for larger portions.
- 4. The top three most ordered pizzas are
 - 1.Chicken Pizza (43,434),
 - 2.Barbecue Pizza (42,768),
 - 3. California Pizza (41,409),
- 5.Order Patterns & Peak Hours: The busiest hours are 12 PM (2,520 orders) and 11 AM (1,231 orders), idicating strong lunchtime demand. The average pizzas ordered per day is 138, showing a steady flow of sales.
 - 6.Category & Distribution Insights: The Classic category dominates with 14,888 pizzas ordered. The pizza category count is relatively balanced: Chicken (6 types), Classic (8 types), Supreme (9 types), Veggie (9 types)—suggesting a diverse menu.







RECOMMENDATIONS:

- Promotions during peak hours (11 AM 12 PM) to maximize revenue
- Upselling premium pizzas like Greek Pizza through combo deals.
- Stock management for classic pizzas, given their high demand.
 - Exploring variations of Chicken, Barbecue, and California Pizzas, as they are the top choices.