



Sales Data Analysis

PIZZA HUT

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Introduction

Hello, my name is Laiba Hameed, and I am a BS IT student. I have learned SQL and MySQL for practice and to enhance my understanding of database management. In this project, I have utilized SQL queries to solve various questions related to PizzaHut sales, including analyzing order details, pizza categories, and revenue data. This project helped me apply my SQL skills in a real-world context and improve my ability to work with relational databases.



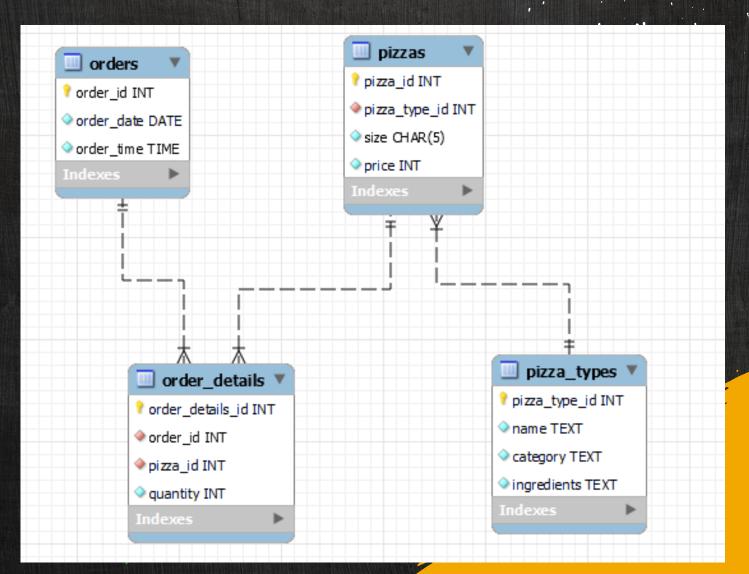
Overview of Pizza Hut Database

The PizzaHut database consists of four main tables to manage pizzas, pizza types, customer orders, and order details:

- 1. pizzas: Stores information about available pizzas.
- 2. **pizza_types**: Defines the categories and ingredients for each type of pizza.
- 3. orders: Manages customer orders and their details.
- 4. **order_details**: Stores the relationship between orders and pizzas, including quantities.



Entity-Relationship Diagram (ERD) :





Q1: Retrieve the total number of orders placed.

```
Limit to 1000 rows
17
     select * from order_details;
19
     -- Retrieve the total number of orders placed.
20
     select count(order_id) as total_orders from orders;
22
23
Total orders:
       21350
```

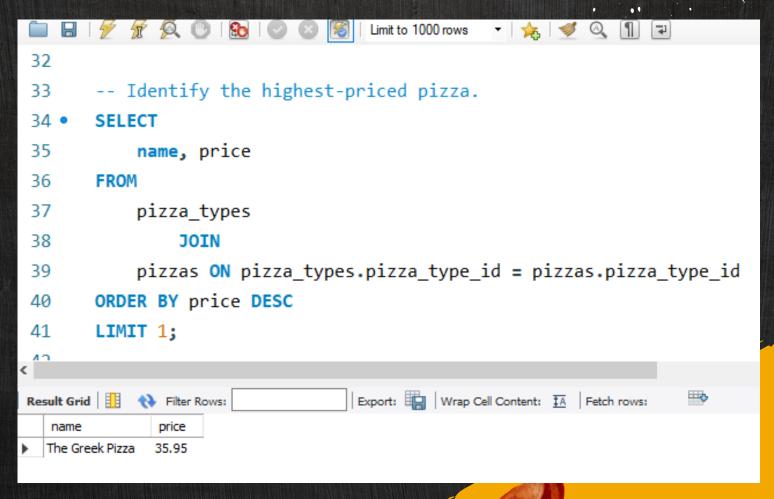


Q2: Calculate the total revenue generated from pizza sales.

```
Limit to 1000 rows
24
25
       -- Calculate the total revenue generated from pizza sales.
26 •
      SELECT
27
           ROUND(SUM(quantity * price), 2) AS total_revenue
      FROM
28
29
           order details
               JOIN
30
           pizzas ON pizzas.pizza_id = order_details.pizza_id;
31
32
                                 Export: Wrap Cell Content: IA
total_revenue
```



Q3: Identify the highest-priced pizza



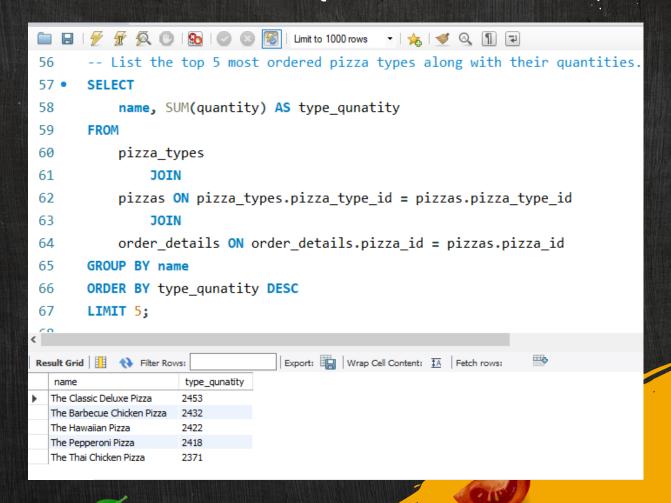


Q4: Identify the most common pizza size ordered.

```
PizzaHut Project*
                                     Limit to 1000 rows ▼ | 🌟 | 🥩 🔍 👖 📦
        -- Identify the most common pizza size ordered.
45 •
       SELECT
            size, COUNT(order_details_id) AS order_count
       FROM
            pizzas
                JOIN
            order_details ON pizzas.pizza_id = order_details.pizza_id
       GROUP BY size
51
       ORDER BY order count DESC
       LIMIT 1;
Result Grid Filter Rows:
                                    Export: Wrap Cell Content: 🚻 Fetch rows:
        order count
```

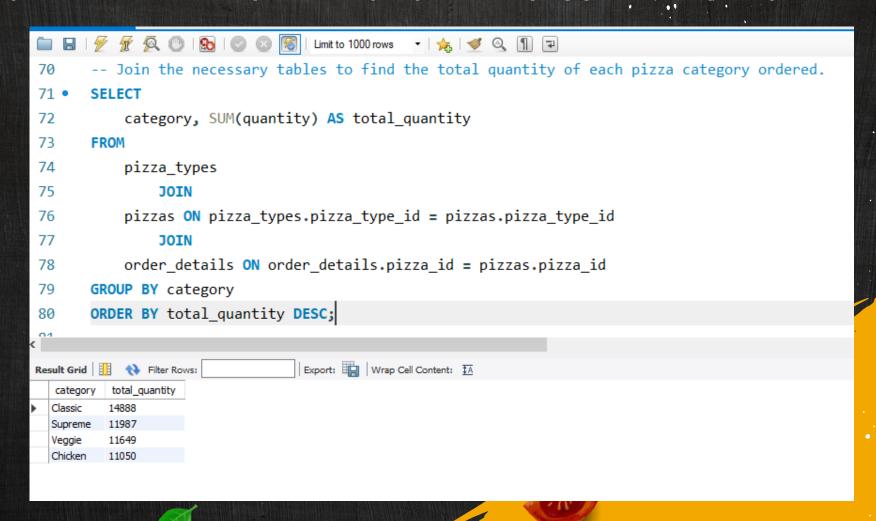


Q5: List the top 5 most ordered pizza types along with their quantities.



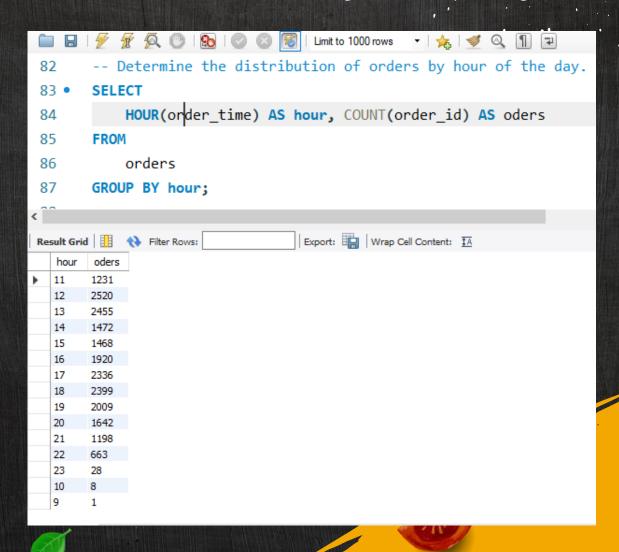


Q6: find the total quantity of each pizza category ordered.



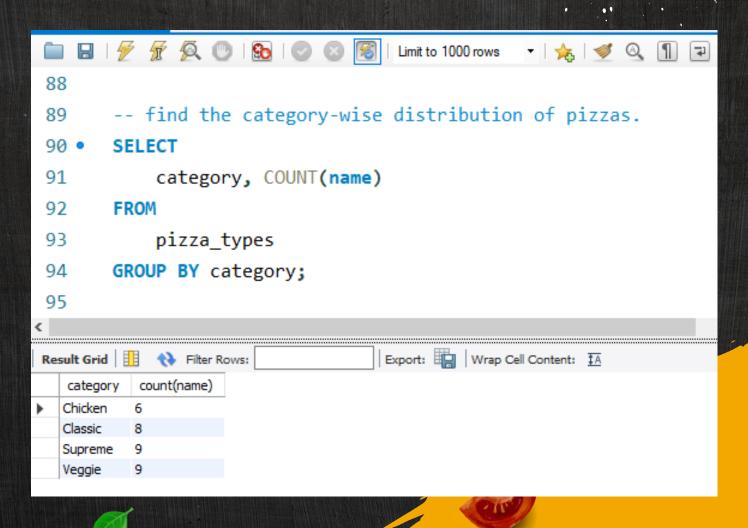


Q7: Determine the distribution of orders by hour of the day.





Q8: find the category-wise distribution of pizzas.





Q9: Group the orders by date and calculate the average number of pizzas ordered per day.

```
97
       -- Group the orders by date and calculate the average number of pizzas ordered per day.
98
       SELECT
           ROUND(AVG(quantity), 0) AS avergae_pizzas_ordered_per_day
99
       FROM
100
101
            (SELECT
102
                order date, SUM(quantity) AS quantity
103
           FROM
104
                orders
105
            JOIN order details ON orders.order id = order details.order id
106
           GROUP BY order date) AS oders per day;
107
Result Grid Filter Rows:
                                   Export: Wrap Cell Content: TA
   avergae_pizzas_ordered_per_day
```



Q10: Determine the top 3 most ordered pizza types based on revenue.ieve the total number of orders placed.

```
Limit to 1000 rows ▼ | 🎠 | 🍼 🔍 👖 🖘
        -- Determine the top 3 most ordered pizza types based on revenue.
109
        SELECT
110 •
111
             name, SUM(quantity * price) AS revenue
112
        FROM
             pizza types
113
114
                 JOIN
             pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
115
116
                 JOIN
             order details ON pizzas.pizza id = order details.pizza id
117
118
        GROUP BY name
119
        ORDER BY revenue DESC
        LIMIT 3;
120
Result Grid Filter Rows:
                                     Export: Wrap Cell Content: A Fetch rows:
  The Thai Chicken Pizza
                      43434.25
   The Barbecue Chicken Pizza
   The California Chicken Pizza
                     41409.5
```

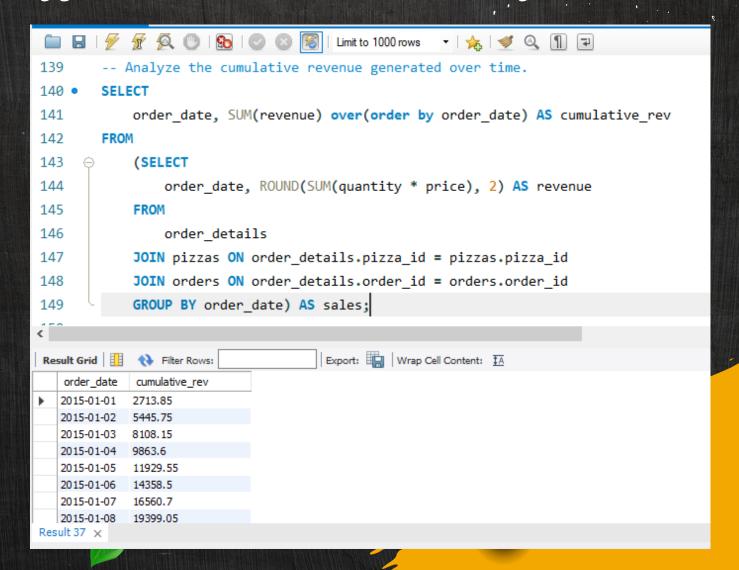


Q11: Calculate the percentage contribution of each pizza type to total revenue.

```
124
        -- Calculate the percentage contribution of each pizza type to total revenue.
125 •
        SELECT
126
            category,
            ROUND((SUM(quantity * price) / (SELECT
127
                              SUM(quantity * price) FROM order details
128
129
                                  JOIN
                              pizzas ON pizzas.pizza_id = order_details.pizza_id)) * 100, 2) AS revenue
130
131
        FROM pizza types
132
                 JOIN
133
            pizzas ON pizza types.pizza type id = pizzas.pizza type id
                 JOIN
134
135
            order details ON pizzas.pizza id = order details.pizza id
        GROUP BY category
136
137
        ORDER BY revenue DESC;
                                       Export: Wrap Cell Content: $\frac{1}{4}
             Filter Rows:
Result Grid
           26.91
   Chicken
           23.96
```

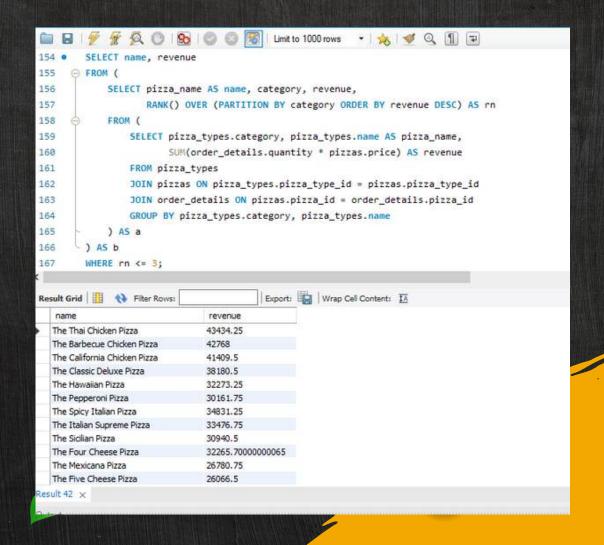


Q12: Analyze the cumulative revenue generated over time.





Q13: Determine the top 3 most ordered pizza types based on revenue for each pizza category.



THE END