

Company Overview

Pizza Hut is a global restaurant chain known for its diverse range of pizzas, pastas, and side dishes. Founded in 1958 by Dan and Frank Carney in Wichita, Kansas, Pizza Hut quickly became one of the most recognizable pizza brands worldwide. Its menu features signature items like the Pan Pizza, Thin 'N Crispy, and Stuffed Crust, offering a variety of toppings and crust styles. Pizza Hut operates in over 100 countries, providing both dine-in and delivery options. The company is a subsidiary of Yum! Brands, which also owns other popular fast-food chains like KFC and Taco Bell.

Project Overview

This project involves a comprehensive analysis of PizzaHut data using SQL. The goal is to extract valuable insights and answer various business questions based on the dataset. The following README provides a detailed account of the project's objectives, business problems, solutions, findings, and conclusions.

Business Problems and solutions

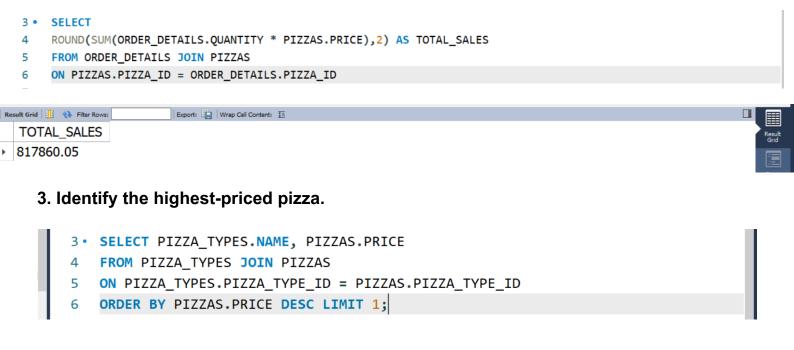
Basic:

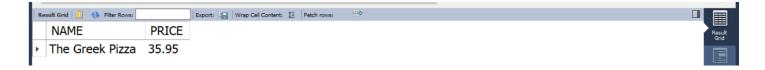
1. Retrieve the total number of orders placed.

```
3 • SELECT COUNT(ORDER_ID) AS TOTAL_ORDERS FROM ORDERS;
```

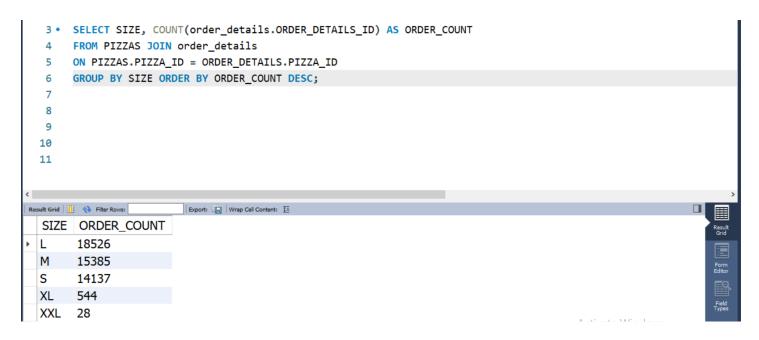


2. Calculate the total revenue generated from pizza sales.

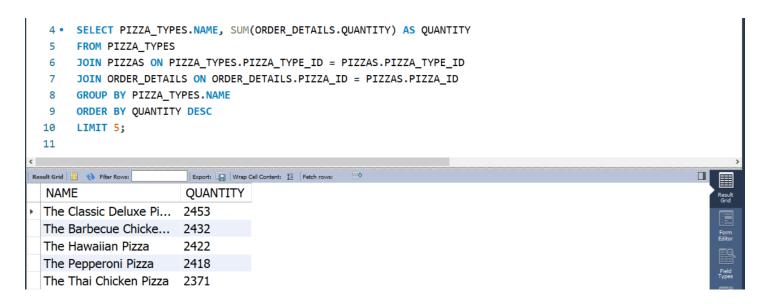




4. Identify the most common pizza size ordered.



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

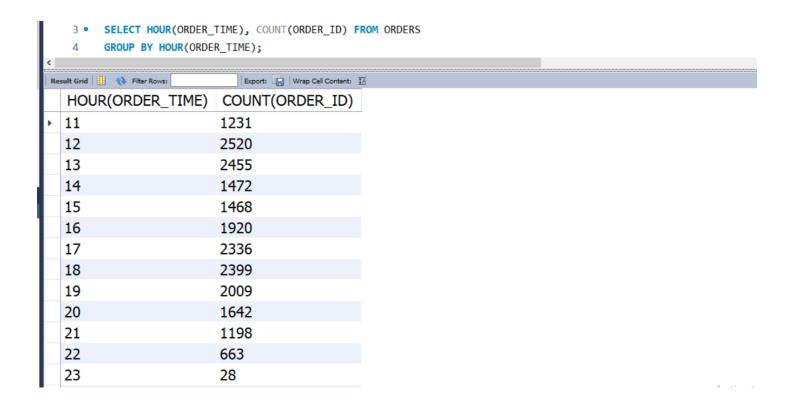


Intermediate:

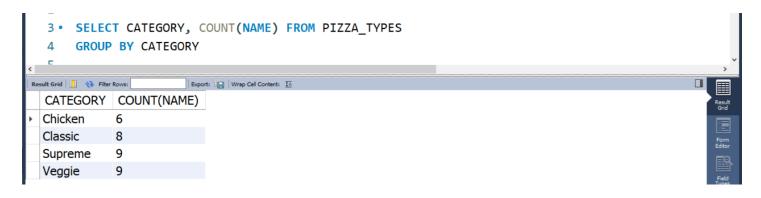
6. Join the necessary tables to find the total quantity of each pizza category ordered.

```
SELECT PIZZA TYPES.CATEGORY, SUM(order details.QUANTITY) AS QUANTITY
  3 •
  4
       FROM pizza_types
  5
       JOIN pizzas
       ON pizza_types.pizza_type_id = pizzas.pizza_type_id
  6
       join order_details
  7
       on order_details.PIZZA_ID = pizzas.pizza_id
  8
       GROUP BY pizza_types.category ORDER BY QUANTITY DESC;
  9
 10
 11
 12
Export: Wrap Cell Content: IA
  CATEGORY QUANTITY
 Classic
             14888
 Supreme
             11987
 Veggie
             11649
 Chicken
             11050
```

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.

```
3 • SELECT AVG(QUANTITY) FROM

4 • (SELECT ORDERS.ORDER_DATE, SUM(ORDER_DETAILS.QUANTITY) AS QUANTITY

5 FROM ORDERS JOIN order_details

6 ON ORDERS.ORDER_ID = ORDER_DETAILS.ORDER_ID

7 GROUP BY ORDERS.ORDER_DATE) AS ORDER_QUANTITY;

8

Result Grid ** Filter Rows: Export: ** Wrap Cell Content: ** AVG(QUANTITY)

138.4749
```

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



Advanced:

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

```
3 •
           SELECT
     4
               pizza_types.category,
     5
               ROUND(
        \ominus
                   (SUM(order_details.quantity * pizzas.price) /
     6
     7
                   (SELECT SUM(order_details.quantity * pizzas.price)
                   FROM order_details
     8
     9
                   JOIN pizzas ON pizzas.pizza_id = order_details.pizza_id)
    10
                   ) * 100, 2
               ) AS revenue
    11
    12
           FROM
    13
               pizza_types
    14
               pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
    15
    16
    17
               order_details ON order_details.pizza_id = pizzas.pizza_id
    18
           GROUP BY
    19
               pizza_types.category
    20
           ORDER BY
               revenue DESC;
    21
Export: Wrap Cell Content: IA
  category revenue
  Classic
              26.91
  Supreme 25.46
  Chicken
              23.96
  Veggie
              23.68
```

12. Analyze the cumulative revenue generated over time.

```
25 • select order_date,
26
     sum(revenue) over (order by order_date) as cum_revenue
27
28 ⊖ (select orders.ORDER_DATE,
     sum(order_details.QUANTITY * pizzas.price) as revenue
29
     from order_details join pizzas
30
     on order_details.PIZZA_ID = pizzas.pizza_id
31
32
     join orders
     on orders.ORDER_ID = ORDER_DETAILS_ID
33
     group by orders.ORDER_DATE) as sales;
34
35
                        Export: Wrap Cell Content: IA
```



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

```
38 •
     select name, revenue from
39
   40
     rank() over (partition by category order by revenue desc) as rn
     from
41
42
   sum((order_details.QUANTITY)* pizzas.price) as revenue
43
     from pizza_types join pizzas
44
45
     on pizza types.pizza type id = pizzas.pizza type id
    join order_details
46
     on order_details.PIZZA_ID = pizzas.pizza_id
47
48
     group by pizza_types.category, pizza_types.name) as a) as b
49
     where rn <= 3;
```

