



Pizza Hut

Sales Analysis

This presentation will analyze sales data from a pizza restaurant, providing insights into key metrics and trends. We will explore various aspects of the business, including order volume, revenue, pizza popularity, and customer behavior.



Total Number of Orders Placed

SQL Query: -

```
SELECT  
    COUNT(orders.order_id) AS Total_Orders  
FROM  
    orders;
```



Total Revenue

SQL Query: -

```
SELECT  
    ROUND(SUM(order_details.quantity * pizzas.price),  
          2) AS Total_Revenue  
FROM  
    order_details  
    JOIN  
    pizzas ON pizzas.pizza_id = order_details.pizza_id;
```



Highest Priced Pizza

SQL Query: -

```
SELECT  
    pizza_types.name, pizzas.price  
FROM  
    pizza_types  
    JOIN  
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id  
ORDER BY pizzas.price DESC  
LIMIT 1;
```



Most Common Pizza Size Ordered

SQL Query: -

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



Top 5 Most Ordered Pizza Types

SQL Query: -

```
SELECT
    pizza_types.name,
    SUM(order_details.quantity) AS Quantity_Ordered
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_Ordered DESC
LIMIT 5;
```



Total Quantity of each Pizza Category Ordered

SQL Query: -

```
SELECT
    pizza_types.category,
    SUM(order_details.quantity) AS Quantity_Ordered
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_Ordered DESC;
```



Distribution of Orders by Hour of the Day

SQL Query: -

```
SELECT  
    HOUR(orders.order_time) AS Hour, COUNT(orders.order_id) AS  
    Order_Count  
FROM  
    orders  
GROUP BY HOUR(order_time);
```



Category-Wise Distribution of Pizzas

SQL Query: -

```
SELECT  
    pizza_types.category AS Category,  
    COUNT(pizza_types.name) AS No_of_Pizzas  
FROM  
    pizza_types  
GROUP BY Category;
```



Average Number of Pizzas Ordered Per Day

SQL Query: -

```
SELECT
    ROUND(AVG(Quantity), 0) AS Avg_Order_Per_Day
FROM
    (SELECT
        orders.order_date, SUM(order_details.quantity) AS Quantity
    FROM
        orders
    JOIN order_details ON orders.order_id = order_details.order_id
    GROUP BY orders.order_date) AS Order_Quantity;
```



Top 3 Most Ordered Pizza Types Based on Revenue

SQL Query: -

```
SELECT
    pizza_types.name,
    SUM(order_details.quantity * pizzas.price) AS Total_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 Total_Revenue DESC
LIMIT 3;
```



Percentage Contribution of each Pizza Type to Total Revenue

SQL Query: -

```
SELECT
    pizza_types.category,
    CONCAT(ROUND((SUM(order_details.quantity * pizzas.price) / (SELECT
        ROUND(SUM(order_details.quantity * pizzas.price),
            2) AS Total_Revenue
    FROM
        order_details
    JOIN
        pizzas ON pizzas.pizza_id = order_details.pizza_id)) * 100,
        2),
        ' %') AS Percentage_Contribution_in_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;
```



Cumulative Revenue Generated Over Time

SQL Query: -

```
SELECT
    order_date,
    SUM(Total_Revenue) OVER(ORDER BY order_date) AS Cumulative_Revenue
FROM
    (SELECT
        orders.order_date,
        SUM(order_details.quantity * pizzas.price) AS Total_Revenue
    FROM
        order_details
    JOIN
        pizzas ON order_details.pizza_id = pizzas.pizza_id
    JOIN
        orders ON orders.order_id = order_details.order_id
    GROUP BY
        orders.order_date) AS Per_Day_Revenue;
```



Top 3 Most Ordered Pizza Types Based on Revenue for each Pizza Category

SQL Query: -

```
SELECT
    category,
    name,
    Total_Revenue
FROM
    (SELECT
        category,
        name,
        Total_Revenue,
        RANK() OVER(PARTITION BY category ORDER BY Total_Revenue DESC) AS rn
    FROM
        (SELECT
            pizza_types.category,
            pizza_types.name,
            SUM(order_details.quantity * pizzas.price) AS Total_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;
```

