



Fundamentals of SQL

PIZZA SALES

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INTRODUCTION

Welcome to my project on Pizza Sales Optimization, where I leveraged the power of Structured Query Language (SQL) to analyze and enhance the sales strategy of a pizza business. In today's data-driven world, SQL plays a pivotal role in extracting valuable insights from large datasets. This project focuses on examining sales trends, customer preferences, and operational efficiencies using SQL queries and implementations.

AGENDA

01

Analysis of Sales

02

Operational Efficiency





Structured Query Language

Pizza SALES QUERIES



Q1. RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED?

```
SELECT COUNT(order_id) FROM orders;
```



Calculate the total revenue generated from pizza sales?

```
SELECT  
    SUM(order_details.quantity * pizzas.price) AS TotalRevenue  
FROM  
    order_details  
    JOIN  
    pizzas ON pizzas.pizza_id = order_details.pizza_id;
```





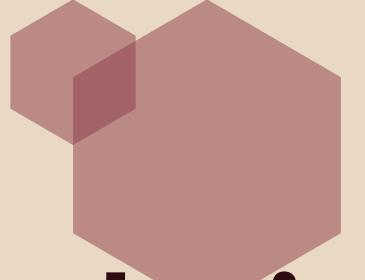
Identify the highest-priced pizza?

```
SELECT
    p1.name, p2.price
FROM
    pizza_types AS p1
        JOIN
    pizzas AS p2 ON p1.pizza_type_id = p2.pizza_type_id
ORDER BY p2.price DESC
LIMIT 1;
```



Identify the most common pizza size ordered?

```
SELECT p1.size , count(order_details.order_details_id) AS order_count
FROM p1
JOIN order_details
ON p1.pizza_id = order_details.pizza_id
GROUP BY p1.size
ORDER BY order_count DESC;
```



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



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

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
pizzas.pizza_id = order_details.pizza_id GROUP BY pizza_types.category
ORDER BY quantity DESC ;
```

Determine the distribution of orders by hour of the day?

```
SELECT hour(order_time) , count(order_id) from orders  
GROUP BY hour(order_time) ;
```



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

```
SELECT category ,count(name)
from
pizza_types
GROUP BY category ;
```

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

```
SELECT AVG(quantity) 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;
```





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
pizza_types.pizza_type_id = pizzas.pizza_type_id
JOIN order_details
ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizza_types.name
ORDER BY revenue DESC LIMIT 3;
```



Structured Query Language

THANK YOU