

Where Every Slice is a Taste of Perfection

# SQL PROJECT ON PIZZA SALES



ORDER  
NOW



Hello, my name is Ayush Rajput and here in this project i have utilized sql queries to solve questions related to pizza sales



# QUESTIONS



**Retrieve the total number of orders placed**

**Calculate the total revenue generated from pizza orders**

**Identify the highest priced pizza**

**identify the most common pizza size ordered**

**list the top 5 most ordered pizza along with their quantity**

**join the necessary table to find the total quantity of each pizza category ordered**

**Determine the distribution of orders by hours of the day**

**join the relevant table to find out category wise distribution of pizzas**

**Group the orders by date and calculate the avg number of pizzas ordered per day**

**Calculate the top 3 most ordered pizza types based on revenue**

**Calculate the percentage contribution of each pizza type based on category to total revenue**

**analyze the cumulative revenue generated over time**

**Determine the top 3 most ordered pizza type based on revenue for each pizza category**

# RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED

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

# CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA ORDERS

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

# IDENTIFY THE HIGHEST PRICED PIZZA

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

# IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED

```
SELECT
    p.size, COUNT(*) AS order_count
FROM
    pizzas p
        JOIN
    order_details od ON p.pizza_id = od.pizza_id
GROUP BY p.size
ORDER BY order_count DESC;
```

# LIST THE TOP 5 MOST ORDERED PIZZA ALONG WITH THEIR QUANTITY

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

# JOIN THE NECESSARY TABLE TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED

```
SELECT
    pt.category, SUM(od.quantity) AS quantity
FROM
    pizza_types pt
        JOIN
    pizzas p ON pt.pizza_type_id = p.pizza_type_id
        JOIN
    order_details od ON od.pizza_id = p.pizza_id
GROUP BY pt.category
ORDER BY quantity ASC
```

# DETERMINE THE DISTRIBUTION OF ORDERS BY HOURS OF THE DAY

```
SELECT  
    HOUR(order_time) AS hour, COUNT(order_id) AS order_count  
FROM  
    orders  
GROUP BY HOUR(order_time)  
ORDER BY hour ASC
```

# JOIN THE RELEVANT TABLE TO FIND OUT CATEGORY WISE DISTRIBUTION OF PIZZAS

```
SELECT
    category, COUNT(*)
FROM
    pizza_types
GROUP BY category
```

# GROUP THE ORDERS BY DATE AND CALCULATE THE AVG NUMBER OF PIZZAS ORDERED PER DAY

```
SELECT
    ROUND(AVG(quantity), 0)
FROM
    (SELECT
        DATE(o.order_date) AS date, SUM(od.quantity) AS quantity
    FROM
        orders o
    JOIN order_details od ON o.order_id = od.order_id
    GROUP BY date) AS data;
```

# CALCULATE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE

```
SELECT
    pt.name, ROUND(SUM(p.price * od.quantity), 2) AS revenue
FROM
    pizza_types pt
        JOIN
    pizzas p ON p.pizza_type_id = pt.pizza_type_id
        JOIN
    order_details od ON od.pizza_id = p.pizza_id
GROUP BY pt.name
ORDER BY revenue DESC
LIMIT 3;
```

# CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE BASED ON CATEGORY TO TOTAL REVENUE

```
SELECT
    pt.category,
    ROUND((SUM(p.price * od.quantity) / (SELECT
                                            SUM(od.quantity * p.price) AS total_sales
                                         FROM
                                            pizzas p
                                         JOIN
                                            order_details od ON od.pizza_id = p.pizza_id) * 100),
         2) AS revenue
FROM
    pizza_types pt
    JOIN
    pizzas p ON p.pizza_type_id = pt.pizza_type_id
    JOIN
    order_details od ON od.pizza_id = p.pizza_id
GROUP BY category
ORDER BY revenue DESC;
```

# ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME

```
select order_date,
       sum(revenue) over (order by order_date) as cum_revenue
  from
    (select o.order_date, sum(p.price * od.quantity) as revenue
      from pizzas p
     join order_details od
       on od.pizza_id = p.pizza_id
     join
       orders o
      on o.order_id = od.order_id
     group by o.order_date) as sales;
```

# DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPE BASED ON REVENUE FOR EACH PIZZA CATEGORY

```
select category,name,revenue
from
(select category,name,revenue,
rank() over(partition by category order by revenue desc) as rn
from
(select pt.name,pt.category,
sum(p.price*od.quantity) as revenue
from pizza_types pt
join pizzas p
on pt.pizza_type_id = p.pizza_type_id
join order_details od
on od.pizza_id = p.pizza_id
group by pt.name,pt.category) as a) as b
where rn <= 3;
```