

Where Every Slice is a Taste of Perfection

WELCOME TO PIZZA SALES PROJECT



HELLO

My name is Sumona Halder. In this project I have utilized SQL query to solve question that are related to data of Pizza Sales.

Questions

Retrieve the total number of orders placed.

Calculate the total revenue generated from pizza sales.

Identify the highest-priced pizza.

Identify the most common pizza size ordered.

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

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

Determine the distribution of orders by hour of the day.

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

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

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

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

Analyze the cumulative revenue generated over time.

Determine the top 3 most ordered pizza types 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 sales.

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

Identify the highest-priced pizza.

```
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;
```

Identify the most common pizza size ordered.

```
SELECT
    pizzas.size,
    COUNT(order_details.order_details_id) AS order_count
FROM
    pizzas
        JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizzas.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 quantity
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 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 order_details.pizza_id = pizzas.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) AS hour, COUNT(order_id) AS order_count  
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 ROUND(AVG(quantity), 0) AS avg_pizza_ordered_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;
```

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 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 revenue DESC LIMIT 3;
```

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

```
SELECT pizza_types.category,
       ROUND(SUM(order_details.quantity * pizzas.price) / (SELECT
                                                               ROUND(SUM(order_details.quantity * pizzas.price),2) AS total_sales
                                                       FROM order_details JOIN pizzas ON pizzas.pizza_id = order_details.pizza_id) * 100,2) AS 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 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 orders.order_date,sum(order_details.quantity * pizzas.price) as 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 sales;
```

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

```
select name, revenue from
(select category, name, revenue,
rank() over(partition by category order by revenue desc) as rn
from (select pizza_types.category, 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 order_details.pizza_id = pizzas.pizza_id
group by pizza_types.category, pizza_types.name) as a) as b
where rn <=3;
```

Pizza Sales Presentation

THANK YOU
FOR ATTENTION

See You Next

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