

# PIZZA SALES REPORT





## • Objectives :

### Basic:

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.

### Intermediate:

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.

### Advanced:

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(pizzas.price * order_details.quantity),
          2) AS total_sales
FROM
    pizzas
    JOIN
    order_details 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 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) AS hour, COUNT(order_id) AS order_count
FROM
    orders
GROUP BY hour
ORDER BY order_count DESC;
```



- 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(pizzas.price * order_details.quantity) AS total_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 total_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(pizzas.price * order_details.quantity),
            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 pizzas.pizza_id = order_details.pizza_id
GROUP BY pizza_types.category
```



- 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 order_details.order_id = orders.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 name, category, 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;
```