1] Retrieve the total number of orders placed.

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

2] Calculate the total revenue generated from pizza sales.

3] Identify the highest-priced pizza.

4] Identify the most common pizza size ordered.

5] 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;
```

6] 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;
```

7] Determine the distribution of orders by hour of the day.

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

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

```
SELECT
    Category, COUNT(name) as Count
FROM
    pizza_types
GROUP BY category;
```

9] 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_quntity;
```

10] 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;
```

11] 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
    order_details ON order details.pizza id = pizzas.pizza id
GROUP BY pizza types.category
ORDER BY revenue DESC;
```

12] 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;
```

13] Determine the top 3 most ordered pizza types 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 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;</pre>
```