1. Retrieve the total number of orders placed.

* SELECT COUNT(order\_id) AS total\_orders FROM orders;

2.Calculate the total revenue generated from pizza sales.

* Select ROUND(SUM(order\_details.quantity\*pizzas.price),2) AS total\_revenue

FROM order\_details JOIN pizzas

ON order\_details.pizza\_id = pizzas.pizza\_id;

3. 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;

4. 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 order\_details.pizza\_id = pizzas.pizza\_id

GROUP BY pizzas.size ORDER BY order\_count DESC LIMIT 1;

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,pizza\_types.pizza\_type\_id

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;

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

* SELECT EXTRACT(HOUR FROM order\_time) AS hour,COUNT(order\_id)AS order\_count

FROM orders

GROUP BY hour ORDER BY HOUR ASC;

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

* SELECT category,COUNT(name) 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 average\_pizzas\_ordered\_per\_day FROM

(SELECT orders.order\_date,SUM(order\_details.quantity) AS quantity

FROM orders JOIN order\_details

ON order\_details.order\_id = orders.order\_id

GROUP BY orders.order\_date ORDER BY orders.order\_date ASC) AS order\_quantity

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 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 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\_revenue FROM order\_details JOIN pizzas

ON order\_details.pizza\_id = pizzas.pizza\_id)\*100,0) 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;

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 ORDER BY orders.order\_date ASC) AS sales;

13. 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 ranking 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 ranking <=3;