```
Q1. Retrieve the total number of orders placed.
```

```
SELECT
  COUNT(Order_ID) AS Total_Number
FROM
  order_details;
Q2. Calculate the total revenue generated from pizza sales.
SELECT
  ROUND(SUM(quantity * price), 0) AS Revenue
FROM
  order_details
    JOIN
  pizzas ON order_details.Pizza_ID = pizzas.pizza_id;
Q3. Identify the highest-priced pizza.
SELECT
  Name, Price
FROM
  pizza_types
    JOIN
  Pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
ORDER BY Price DESC
LIMIT 1;
Q4. Identify the most common pizza size ordered.
SELECT
  size, COUNT(quantity) AS Order_Pizza
FROM
  order_details
    JOIN
  Pizzas ON order_details.Pizza_ID = pizzas.pizza_id
```

GROUP BY size

ORDER BY Order_Pizza DESC;

```
Q5. List the top 5 most ordered pizza types along with their quantities.
```

```
SELECT
  name, SUM(quantity) AS Quantity
FROM
  order_details
    JOIN
  pizzas ON order_details.Pizza_ID = pizzas.pizza_id
    JOIN
  pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
GROUP BY name
ORDER BY Quantity DESC
LIMIT 5;
Q6. Join the necessary tables to find the total quantity of each pizza category ordered.
SELECT
  category, SUM(quantity) AS Total_Quantity
FROM
  order_details
    JOIN
  pizzas ON order_details.Pizza_ID = pizzas.pizza_id
    JOIN
  pizza_types ON pizza_types.pizza_type_id = pizzas.pizza_type_id
GROUP BY category;
Q7. Determine the distribution of orders by hour of the day.
SELECT
  HOUR(order_time) AS Hour, COUNT(order_id) AS Orders
FROM
  orders
GROUP BY Hour
ORDER BY Hour ASC;
```

```
Q8. Join relevant tables to find the category-wise distribution of pizzas.
SELECT
  category, COUNT(name) AS Pizzas
FROM
  pizza_types
GROUP BY category;
Q9. Group the orders by date and calculate the average number of pizzas ordered per day.
SELECT
  ROUND(AVG(Orders), 0)
FROM
  (SELECT
    Order_Date, SUM(quantity) AS Orders
  FROM
    orders
```

Q10. Determine the top 3 most ordered pizza types based on revenue.

JOIN order_details ON orders.order_id = order_details.order_id

GROUP BY Order_Date) AS Total_orders;

```
SELECT
  Name, SUM(quantity * 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 name
  ORDER BY revenue
  DESC LIMIT 3;
```

Q11. Calculate the percentage contribution of each pizza type to total revenue.

```
SELECT
 category, round(SUM(quantity * price) /
 (SELECT
        SUM(quantity * price) AS Revenue
 FROM
  order_details
    JOIN
  pizzas ON order_details.Pizza_ID = pizzas.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 category
  ORDER BY revenue;
Q12. Analyze the cumulative revenue generated over time.
SELECT
 Order_Date, sum(Revenue) OVER (ORDER BY Order_Date) AS Cum_Revenue
FROM
(SELECT
  order_date, ROUND(SUM(quantity * price),0)AS Revenue
FROM
  pizzas
  order_details ON pizzas.pizza_id = order_details.pizza_id
    JOIN
  orders ON orders.order_id = order_details.Order_ID
GROUP BY order_date) as sales;
```

Q13. Determine the top 3 most ordered pizza types based on revenue for each pizza category.

```
SELECT
  name, T_Revenue
  FROM
(SELECT
  category, name, T_Revenue,
RANK() OVER (PARTITION BY Category ORDER BY T_Revenue DESC) AS Revenue
FROM
(SELECT
  category, name, SUM(quantity * price) AS T_Revenue
FROM
  order_details
    JOIN
  pizzas ON pizzas.pizza_id = order_details.Pizza_ID
    JOIN
  pizza_types ON pizza_types.pizza_type_id = pizzas.pizza_type_id
  GROUP BY category, name)
  AS a) AS B WHERE Revenue <=3;
```