

#1.Retrieve the total number of orders placed.

```
select count(*) as total_orders from orders;
```

total_orders
21350

#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
```

total_revenue
817860.05

#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 price DESC
```

```
LIMIT 1;
```

name	price
The Greek Pizza	35.95

#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 pizzas.pizza_id = order_details.pizza_id
GROUP BY pizzas.size
ORDER BY order_count DESC;
```

size	order_count
L	18526
M	15385
S	14137
XL	544
XXL	28

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

```
SELECT
    pizza_types.name,
    SUM(order_details.quantity) AS total_pizza_ordered
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 total_pizza_ordered DESC
LIMIT 5;
```

name	total_pizza_ordered
The Classic Deluxe Pizza	2453
The Barbecue Chicken Pizza	2432
The Hawaiian Pizza	2422
The Pepperoni Pizza	2418
The Thai Chicken Pizza	2371

*/\*6.Join the necessary tables to find the total quantity of each pizza category ordered.\*/*

```

SELECT
    pizza_types.category,
    SUM(order_details.quantity) AS total_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 total_quantity DESC;

```

category	total_quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

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

```
SELECT
    HOUR(order_time) AS order_hour,
    COUNT(order_id) AS total_orders
FROM
    orders
GROUP BY HOUR(order_time)
ORDER BY HOUR(order_time);
```

order_hour	total_orders
9	1
10	8
11	1231
12	2520
13	2455
14	1472
15	1468
16	1920
17	2336
18	2399
19	2009
20	1642
21	1198
22	663
23	28

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

```
SELECT
    category, COUNT(name) AS total_sold
FROM
    pizza_types
GROUP BY category;
```

category	total_sold
Chicken	6
Classic	8
Supreme	9
Veggie	9

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

```

SELECT
  pizza_types.name,
  ROUND(SUM(order_details.quantity * pizzas.price),
        2) AS total_revenue
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 pizza_types.name
ORDER BY total_revenue DESC
LIMIT 3;

```

#10. 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;