**-- 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

(orders\_details.QUANTITY \* PIZZAS.PRICE) as total\_sales

FROM ORDER\_DETAILS JOIN pizzas

ON pizzas.pizza\_id = ORDER\_DETAILS.PIZZA\_ID

SELECT (orders\_details.QUANTITY \* PIZZAS.PRICE) AS total\_sales

FROM orders\_details

JOIN PIZZAS ON orders\_details.pizza\_id = pizzas.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(orders\_details.orders\_details\_ID)

FROM pizzas JOIN ORDER\_DETAILS

ON PIZZAS.PIZZA\_ID = ORDER\_DETAILS.PIZZA\_ID

GROUP BY PIZZA.SIZE ORDER BY ORDER\_COUNT DESC ;

**-- List the top 5 most ordered pizza types**

**-- along with their quantities**.

SELECT

pizza\_types.name, SUM(orders\_details.quantity) AS quantity

FROM

pizza\_types

JOIN

pizzas ON pizza\_types.pizza\_type\_id = pizzas.pizza\_type\_id

JOIN

orders\_details ON orders\_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(orders\_details.quantity) AS quantity

FROM

pizza\_types

JOIN

pizzas ON pizza\_types.pizza\_type\_id = pizzas.pizza\_type\_id

JOIN

orders\_details ON orders\_details.PIZZA\_ID = pizzas.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), count(order\_id) from orders

group by hour(order\_time);

**-- 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)

FROM

(SELECT

orders.ORDER\_DATE, SUM(orders\_details.QUANTITY) AS avg\_pizza\_ordered\_per\_day

FROM

orders

JOIN orders\_details ON orders.ORDER\_ID = orders\_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(orders\_details.QUANTITY \* pizzas.price) as revenue

from pizza\_types join pizzas

on pizzas.pizza\_type\_id = pizza\_types.pizza\_type\_id

join orders\_details

on orders\_details.PIZZA\_ID = pizzas.pizza\_id

group by pizza\_types.name order by revenue desc limit 3;

**-- Calculate the percentage contribution of each**

**-- pizza type to total revenue**.

SELECT

pizza\_types.category,

ROUND(SUM(orders\_details.QUANTITY \* pizzas.price) / (SELECT

ROUND(SUM(orders\_details.quantity \* pizzas.price),

2) AS total\_Sales

FROM

orders\_details

JOIN

pizzas ON pizzas.pizza\_id = orders\_details.pizza\_id) \* 100,

2) AS revenue

FROM

pizza\_types

JOIN

pizzas ON pizza\_types.pizza\_type\_id = pizzas.pizza\_type\_id

JOIN

orders\_details ON orders\_details.PIZZA\_ID = pizzas.pizza\_id

GROUP BY pizza\_types.category

ORDER BY revenue DESC;

**-- Analyze the cumulative revenue generated over time.**

select orders.ORDER\_DATE,

sum(revenue) over(order by ORDER\_DATE) as cum\_revenue

from

(select orders.ORDER\_DATE,

sum(orders\_details.QUANTITY \* pizzas.price) as revenue

from orders\_details join pizzas

on orders\_details.PIZZA\_ID = pizzas.pizza\_id

join orders

on orders.ORDER\_ID = orders\_details.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 category,name , revenue,

rank() over(partition by category order by revenue desc) as rn

from

(select pizza\_types.category, pizza\_types.name,

sum((orders\_details.QUANTITY)\* pizzas.price) as revenue

from pizza\_types join pizzas

on pizza\_types.pizza\_type\_id = pizzas.pizza\_type\_id

join orders\_details

on orders\_details.PIZZA\_ID = pizzas.pizza\_id

group by pizza\_types.category, pizza\_types.name) as a) as b

where rn <=3;