Basic:

1.Retrieve the total number of orders placed.

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.

Intermediate:

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

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

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

9.Group the orders by date and calculate the average number of pizzas ordered per day.

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

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

-- 3.Identify the highest-priced pizza.

SELECT

pizza\_types.name

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\_detail\_id) AS common\_count

FROM

pizzas

JOIN

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

GROUP BY pizzas.size

ORDER BY common\_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 qty

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 qty 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 qty

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 pizza\_types.category;

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

SELECT

HOUR(order\_time) AS hr, COUNT(order\_id)

FROM

orders

GROUP BY hr;

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

SELECT

pizza\_types.category, COUNT(pizzas.pizza\_id) AS pizza\_count

FROM

pizzas

JOIN

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

GROUP BY pizza\_types.category;

-- 9. Group the orders by date and calculate the average number of pizzas ordered per day.

SELECT

ROUND(AVG(qty), 0) AS avg\_pizzas\_per\_day

FROM

(SELECT

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

FROM

orders

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

GROUP BY orders.order\_date) AS order\_qty;

-- 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;