

Basics

Q1- Retrieve the total number of orders placed.

Ans - select count(order_id) as Total_orders from orders

Q2- Calculate the total revenue generated from pizza sales.

Ans - 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;

Q3- Calculate the total revenue generated from pizza sales.

Ans - 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;

Q4 - Identify the highest-priced pizza.

Ans - SELECT

pizza_types.name, pizzas.price

FROM

pizza_types

JOIN

pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id

order by pizzas.price Desc

limit 1;

Q5- Identify the most common pizza size ordered.

Ans - 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;

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Q6- List the top 5 most ordered pizza types along with their quantities.

Ans - select pizza_types.name, sum(order_details.quantity) as quantity
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 quantity desc
limit 5;

Q7- Join the necessary tables to find the total quantity of each pizza category ordered

Ans - SELECT
pizza_types.category,
SUM(order_details.quantity) AS total_quantity
FROM
pizza_types
JOIN

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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
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Q8 - Determine the distribution of orders by hour of the day.

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Ans - select extract(HOUR from order_time) as order_hour,
count(orders.order_id) as order_count
from orders
group by extract(HOUR from order_time)
order by order_count desc
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Q9 - Join relevant tables to find the category-wise distribution of pizzas.

Ans - select pizza_types.category, count(name) from pizza_types
group by category

Q10 - Group the orders by date and calculate the average number of pizzas ordered per

Ans - SELECT
ROUND(AVG(quantity),0) as avg_pizza_order_perday
FROM
(SELECT
orders.order_date, SUM(order_details.quantity) AS quantity
FROM
orders
JOIN order_details ON orders.order_id = order_details.order_id
GROUP BY orders.order_date) AS order_quantity;

Q11 - Determine the top 3 most ordered pizza types based on revenue.

Ans -

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SELECT
    pizza_types.name,
    ROUND(SUM(order_details.quantity * pizzas.price),
          0) AS total_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 total_revenue DESC
LIMIT 3;
```

Q12 - Calculate the percentage contribution of each pizza type to total revenue.

Ans - SELECT

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    pizza_types.category,
    ROUND(SUM(order_details.quantity * pizzas.price) / (SELECT
        ROUND(SUM(order_details.quantity * pizzas.price),
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                2) AS total_sales
FROM
    order_details
    JOIN
        pizzas ON pizzas.pizza_id = order_details.pizza_id),
    2) * 100 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.category
ORDER BY revenue DESC

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Q13 - Analyze the cumulative revenue generated over time.

Ans - select order_date,
 sum(revenue) over(order by order_date) as cum_revenue from
 (select orders.order_date ,

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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;
```

Q14 - Determine the top 3 most ordered pizza types based on revenue for each pizza category.

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Ans - 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(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 rn <=3 ;
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Intermediate

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