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-- Basic:
-- 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
  ROUND(SUM(order_details.quantity * pizzas.price),
      2) AS total_sales
FROM
  order_details
    JOIN
  pizzas ON pizzas.pizza_id = order_details.pizza_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
  quantity, COUNT(order_details_id)
FROM
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order_details
GROUP BY quantity;
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;
-- List the top 5 most ordered pizza types along with their quantities.
SELECT
  pizza_types.name, SUM(order_details.quantity) AS 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.name
ORDER BY quantity DESC
LIMIT 4;
-- Intermediate:
-- Join the necessary tables to find the total quantity of each pizza category ordered.
SELECT
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pizza_types.category,
  SUM(order_details.quantity) AS 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 quantity DESC;
-- Determine the distribution of orders by hour of the day.
select hour(order_time) as hour,count(order_id) as order_count 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) as avg_pizza_orderd_per_day
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;
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-- 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;
-- Advanced:
-- Calculate the percentage contribution of each pizza type to total revenue.
SELECT
  pizza_types.category,
  ROUND(SUM(order_details.quantity * pizzas.price) / (SELECT
          ROUND(SUM(order_details.quantity * pizzas.price),
                 2) AS total_sales
        FROM
          order_details
             JOIN
          pizzas ON pizzas.pizza_id = order_details.pizza_id) * 100,
      2) AS revenue
FROM
  pizza_types
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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 revenue DESC;
-- 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;
-- 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((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
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on order_details.pizza_id=pizzas.pizza_id group by pizza_types.category, pizza_types.name) as a) as b where rn <=3;