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PIZZA SALES SQL QUERIES
                         Question Level: Basic, Intermediate, Advanced
-- Basic:
-- 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_sales
FROM
  order_details
    JOIN
  pizzas ON pizzas.pizza_id = order_details.pizza_id;
-- 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
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ORDER BY pizzas.price DESC
LIMIT 1;
-- 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;
-- 5) 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 5;
-- Intermediate:
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-- 6) Join the necessary tables to find the total quantity of each pizza category ordered.

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SELECT
  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;
-- 7) 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);
-- 8) Join relevant tables to find the category-wise distribution of pizzas.
SELECT
  category, COUNT(name)
FROM
  pizza_types
GROUP BY category;
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-- 9) Group the orders by date and calculate the average number of pizzas ordered per day.

```
SELECT
  ROUND(AVG(quantity), 0) AS avg_pizza_ordered_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;
-- 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;
-- Advanced:
-- 11) Calculate the percentage contribution of each pizza type to total revenue.
```

**SELECT** 

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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
    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;
-- 12) 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 sale;
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-- 13) Determine the top 3 most ordered pizza types based on revenue for each pizza category

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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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