SQL Query (Answers) – Pizza Sales Analysis

Q1: The Total Number of Orders Placed

SELECT COUNT (order_id) AS total_orders FROM orders;

Q2: The Total Revenue Generated from Pizza Sales

SELECT SUM(od.quantity * p.price) AS total_revenue
FROM order_details od
JOIN pizza p ON od.pizza_id = p.pizza_id;

Q3: The Highest Priced Pizza

SELECT name, price

FROM pizza p

JOIN pizza_type pt ON p.pizza_type_id = pt.pizza_type_id

ORDER BY price DESC

LIMIT 1;

Q4: The Most Common Pizza Size Ordered

SELECT p.size, COUNT(od.pizza_id) AS size_count
FROM order_details od

JOIN pizza p ON od.pizza_id = p.pizza_id

GROUP BY p.size

ORDER BY size_count DESC

LIMIT 1;

Q5: The Top 5 Most Ordered Pizza Types Along with Their Quantities

SELECT pt.name AS pizza_name, SUM(od.quantity) AS total_quantity
FROM order_details od

JOIN pizza p ON od.pizza_id = p.pizza_id

JOIN pizza_type pt ON p.pizza_type_id = pt.pizza_type_id

GROUP BY pt.name

ORDER BY total_quantity DESC

LIMIT 5;

Q6: The Quantity of Each Pizza Category Ordered

SELECT pt.category, SUM(od.quantity) AS total_quantity
FROM order_details od

JOIN pizza p ON od.pizza_id = p.pizza_id

JOIN pizza_type pt ON p.pizza_type_id = pt.pizza_type_id

GROUP BY pt.category

ORDER BY total_quantity DESC;

Q7: The Distribution of Orders by Hours of the Day

SELECT EXTRACT(HOUR FROM time) AS hour, COUNT(order_id) AS order_count FROM orders

GROUP BY EXTRACT(HOUR FROM time)

ORDER BY hour;

Q8: The Category-wise Distribution of Pizzas

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SELECT pt.category, COUNT(p.pizza_id) AS pizza_count FROM pizza p

JOIN pizza_type pt ON p.pizza_type_id = pt.pizza_type_id

GROUP BY pt.category

ORDER BY pizza count DESC;
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Q9: The Average Number of Pizzas Ordered Per Day

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SELECT AVG(daily_orders.total_pizzas) AS avg_pizzas_per_day
FROM (

SELECT date, SUM(od.quantity) AS total_pizzas
FROM orders o

JOIN order_details od ON o.order_id = od.order_id

GROUP BY date
) AS daily orders;
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Q10: Top 3 Most Ordered Pizza Types Based on Revenue

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SELECT pt.name AS pizza_name, SUM(od.quantity * p.price) AS total_revenue FROM order_details od

JOIN pizza p ON od.pizza_id = p.pizza_id

JOIN pizza_type pt ON p.pizza_type_id = pt.pizza_type_id

GROUP BY pt.name

ORDER BY total_revenue DESC

LIMIT 3;
```

Q11: The Percentage Contribution of Each Pizza Type to Revenue

SELECT pt.name AS pizza_name,

SUM(od.quantity * p.price) * 100.0 / (SELECT SUM(od.quantity * p.price) FROM order_details od JOIN pizza p ON od.pizza_id = p.pizza_id) AS revenue_percentage

FROM order_details od

JOIN pizza p ON od.pizza_id = p.pizza_id

JOIN pizza_type pt ON p.pizza_type_id = pt.pizza_type_id

GROUP BY pt.name

ORDER BY revenue_percentage DESC;

Q12: The Cumulative Revenue Generated Over Time

SELECT o.date, SUM(od.quantity * p.price) AS daily_revenue,

SUM(SUM(od.quantity * p.price)) OVER (ORDER BY o.date) AS cumulative_revenue
FROM orders o

JOIN order_details od ON o.order_id = od.order_id

JOIN pizza p ON od.pizza_id = p.pizza_id

GROUP BY o.date

ORDER BY o.date;

Q13: The Top 3 Most Ordered Pizza Types Based on Revenue for Each Pizza Category

SELECT pt.category, pt.name AS pizza_name, SUM(od.quantity * p.price) AS total_revenue FROM order_details od

JOIN pizza p ON od.pizza_id = p.pizza_id

JOIN pizza_type pt ON p.pizza_type_id = pt.pizza_type_id

GROUP BY pt.category, pt.name

ORDER BY pt.category, total_revenue DESC

LIMIT 3;