PIZZAHUT SALE ANALYSIS

**SQL QUERIES:**

1. **Retrieve the total number of orders placed.**

SELECT COUNT(order\_id) AS Total\_Orders

FROM orders;

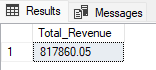
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1. **Calculate the total revenue generated from pizza sales.**

SELECT ROUND(SUM(pizzas.price \* order\_details.quantity),2) AS Total\_Revenue

FROM pizzas JOIN order\_details

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

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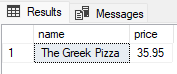
1. **Identify the highest-priced pizza.**

SELECT TOP 1 pizza\_types.name, ROUND(pizzas.price,2) AS price

FROM pizza\_types JOIN pizzas

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

ORDER BY pizzas.price DESC;

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1. **Identify the most common pizza size ordered.**

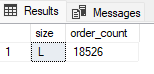
SELECT TOP 1 pizzas.size, COUNT(order\_details.order\_details\_id) AS order\_count

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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1. **List the top 5 most ordered pizza types along with their quantities.**

SELECT TOP 5 pizza\_types.name, SUM(order\_details.quantity) AS quantities

FROM pizza\_types JOIN pizzas

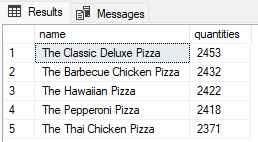
ON pizza\_types.pizza\_type\_id = pizzas.pizza\_type\_id

JOIN order\_details

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

GROUP BY pizza\_types.name

ORDER BY quantities DESC;



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

SELECT pizza\_types.category, SUM(order\_details.quantity) AS total\_quantity

FROM pizza\_types JOIN pizzas

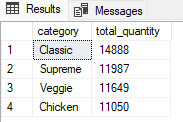
ON pizza\_types.pizza\_type\_id = pizzas.pizza\_type\_id

JOIN order\_details

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

GROUP BY pizza\_types.category

ORDER BY total\_quantity DESC;

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1. **Determine the distribution of orders by hour of the day.**

SELECT order\_hour,COUNT(order\_id) AS no\_of\_orders

FROM (

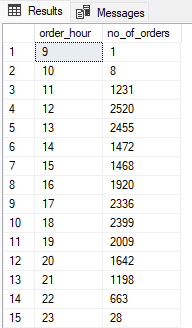
SELECT DATEPART(HOUR, time) AS order\_hour, order\_id

from orders

) AS hourly\_order

GROUP BY order\_hour

ORDER BY order\_hour;

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

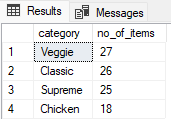
SELECT pizza\_types.category, COUNT(pizzas.pizza\_id) no\_of\_items

FROM pizza\_types Join pizzas

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

GROUP BY pizza\_types.category

ORDER BY no\_of\_items DESC;

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

SELECT ROUND(AVG(total\_order),0) AS avg\_order\_per\_day

FROM

(

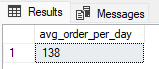
SELECT orders.date, SUM(order\_details.quantity) AS total\_order

FROM orders JOIN order\_details

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

GROUP BY orders.date

) AS daily\_orders;

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

SELECT TOP 3 pizza\_types.name AS pizza\_type,

ROUND(SUM(pizzas.price \* order\_details.quantity),2) AS revenue

FROM pizza\_types JOIN pizzas

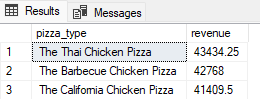
ON pizza\_types.pizza\_type\_id = pizzas.pizza\_type\_id

JOIN order\_details

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

GROUP BY pizza\_types.name

ORDER BY revenue DESC;

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1. **Calculate the percentage contribution of each pizza type to total revenue.**

SELECT pizza\_types.name AS pizza\_type,

ROUND(SUM(pizzas.price \* order\_details.quantity),2) AS revenue\_per\_pizza\_type,

ROUND((SUM(pizzas.price \* order\_details.quantity) \* 100 /

(SELECT SUM(pizzas.price \* order\_details.quantity)

FROM pizzas JOIN order\_details

ON pizzas.pizza\_id = order\_details.pizza\_id)),2) AS percentage\_contribution

FROM pizza\_types JOIN pizzas

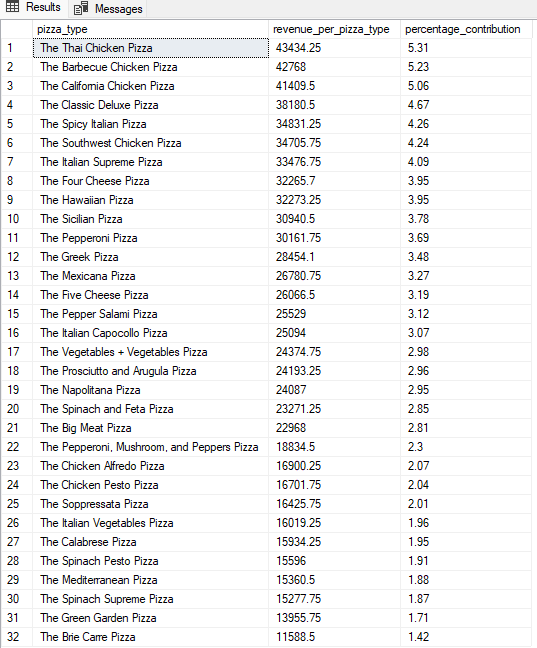
ON pizza\_types.pizza\_type\_id = pizzas.pizza\_type\_id

JOIN order\_details

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

GROUP BY pizza\_types.name

ORDER BY percentage\_contribution DESC;

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1. **Analyze the cumulative revenue generated over time.**

SELECT date,

revenue,

ROUND(SUM(revenue) OVER (ORDER BY date),2) AS cumulative\_revenue

FROM

(SELECT orders.date, ROUND(SUM(pizzas.price \* order\_details.quantity),2) AS revenue

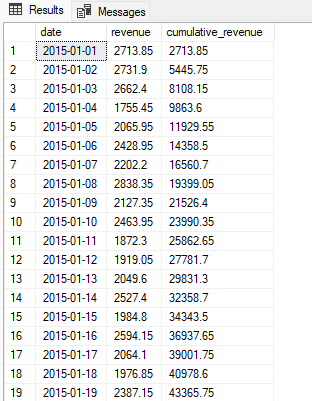
FROM orders JOIN order\_details

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

JOIN pizzas

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

GROUP BY orders.date) AS revenue\_per\_day;

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1. **Determine the top 3 most ordered pizza types based on revenue for each pizza category.**

WITH pizza\_revenue AS (

SELECT pizza\_types.category, pizza\_types.name,

COUNT(order\_details.quantity) AS total\_orders,

ROUND(SUM(pizzas.price \* order\_details.quantity),2) AS total\_revenue,

RANK() OVER(PARTITION BY pizza\_types.category ORDER BY SUM(pizzas.price \* order\_details.quantity) DESC) AS rank

FROM pizza\_types JOIN pizzas

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

JOIN order\_details

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

GROUP BY pizza\_types.category, pizza\_types.name

)

SELECT category, name,total\_orders, total\_revenue

FROM pizza\_revenue

WHERE rank <= 3

ORDER BY category, total\_revenue DESC;

