Where Every Slice is a Taste of Perfection

SQL PROJECT ON PIZZA SALES

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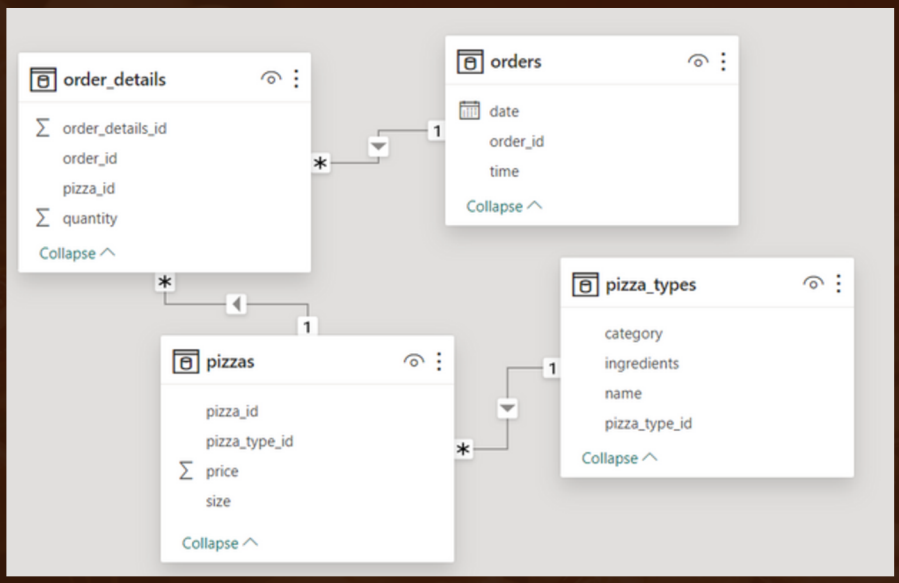
ORDER NOW

RELATION BETWEEN EVERY TABLES



HOW MANY TOTAL NUMBER OF ORDERS ARE THERE ?

```sql
-- que1. Retrieve the total number of orders placed.
SELECT
    COUNT(order_id) AS order_count
FROM
    pizza_orders;
```

order_count
21350

WHAT IS THE TOTAL REVENUE GENERATED?

```sql
--  Calculate the total revenue generated from pizza sales.
SELECT
    ROUND(SUM(o.quantity * p.price)) AS total_revenue
FROM
    pizzas p
        LEFT JOIN
    order_details o ON p.pizza_id = o.pizza_id;
```

total_revenue
817860

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```

total_revenue
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TOP 3 HIGHEST PRICE PIZZAS?

```sql
-- Identify the top-3 highest-priced pizza.
SELECT
    t.name, p.price, p.size
FROM
    pizzas p
        LEFT JOIN
    pizza_types t ON p.pizza_type_id = t.pizza_type_id
ORDER BY p.price DESC
LIMIT 3;
```

name	price	size
The Greek Pizza	35.95	XXL
The Greek Pizza	25.5	XL
The Brie Carre Pizza	23.65	S

MOST COMMON PIZZAS SIZE ORDERED?

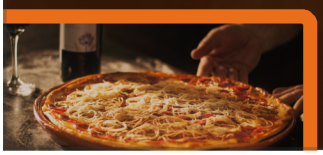
```sql
SELECT
    COUNT(d.order_id) AS count_of_pizza, p.size
FROM
    pizzas p
        LEFT JOIN
    order_details d ON d.pizza_id = p.pizza_id
GROUP BY p.size
ORDER BY count_of_pizza DESC;
```

count_of_pizza	size
18526	L
15385	M
14137	S
544	XL
28	XXL

MOST ORDERED PIZZA TYPES ACC. TO QUANTITIES

```sql
SELECT
    t.name, SUM(d.quantity) AS total_pizzas
FROM
    pizza_types t
        JOIN
    pizzas p ON t.pizza_type_id = p.pizza_type_id
        JOIN
    order_details d ON p.pizza_id = d.pizza_id
GROUP BY t.name
ORDER BY total_pizzas DESC
LIMIT 5;
```

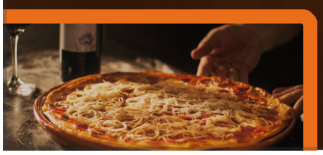
name	total_pizzas
The Classic Deluxe Pizza	2453
The Barbecue Chicken Pizza	2432
The Hawaiian Pizza	2422
The Pepperoni Pizza	2418
The Thai Chicken Pizza	2371



TOTAL NUMBER OF PIZZAS CATEGORY

```sql
-- Join the necessary tables to find the total quantity of each pizza category ordered.
SELECT
    t.category, SUM(d.quantity) AS total_quantity
FROM
    pizza_types t
        JOIN
    pizzas p ON t.pizza_type_id = p.pizza_type_id
        JOIN
    order_details d ON p.pizza_id = d.pizza_id
GROUP BY t.category
ORDER BY total_quantity DESC;
```

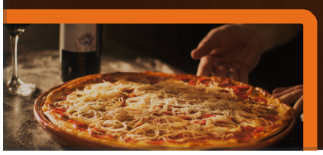
category	total_quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050



CATEGORY WISE DISTRIBUTION OF THE PIZZAS

```sql
-- Join relevant tables to find the category-wise distribution of pizzas.
SELECT
    COUNT(name), category
FROM
    pizza_types
GROUP BY category;
```

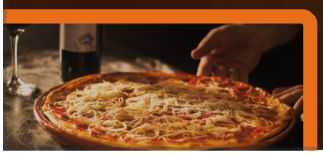
COUNT(name)	category
6	Chicken
8	Classic
9	Supreme
9	Veggie



CALCULATE THE AVERAGE NO. OF PIZZAS PER DAY

```sql
-- Group the orders by date and calculate the average number of pizzas ordered per day.
SELECT
    ROUND(AVG(orders)) as average_no_of_pizzas_perday
FROM
    (SELECT
        o.date, SUM(d.quantity) AS orders
    FROM
        pizza_orders o
    LEFT JOIN order_details d ON o.order_id = d.order_id
    GROUP BY date) AS orders_quantity;
```

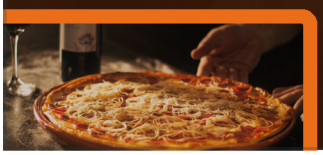
average_no_of_pizzas_perday
138



TOP 3 MOST ORDERED PIZZAS BY REVENUE

```sql
-- Determine the top 3 most ordered pizza types based on revenue.
SELECT
    t.name, SUM(d.quantity * p.price) AS revenue
FROM
    pizza_types t
        JOIN
    pizzas p ON t.pizza_type_id = p.pizza_type_id
        JOIN
    order_details d ON d.pizza_id = p.pizza_id
GROUP BY t.name
ORDER BY revenue DESC
LIMIT 3;
```

name	revenue
The Thai Chicken Pizza	43434.25
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41409.5



CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TO TOTAL REVENUE

```sql
-- Calculate the percentage contribution of each pizza type to total revenue --
SELECT
    t.category,
    ROUND(SUM(d.quantity * p.price),2) / (SELECT
            ROUND(SUM(d.quantity * p.price), 1) AS total_sales
        FROM
            order_details d
                JOIN
            pizzas p ON d.pizza_id = p.pizza_id) * 100 AS revenue
FROM
    pizza_types t
        JOIN
    pizzas p ON t.pizza_type_id = p.pizza_type_id
        JOIN
    order_details d ON p.pizza_id = d.pizza_id
GROUP BY t.category
ORDER BY revenue DESC;
```

category	revenue
Classic	26.905961900569782
Supreme	25.45631281637444
Chicken	23.955139021348398
Veggie	23.682592375223145

TOP 3 MOST ORDERED PIZZA NAMES BASED ON REVENUE FOR EACH PIZZA CATEGORY

```
-- Determine the top3 most ordered pizza types based on revenue for each pizza category --
select name,category, revenue from(
                        select category, name, revenue,
                        rank() over (
                                    partition by category
                                    order by revenue desc
                                    )
                                    as rn
                                    from
(select t.category,t.name,sum((d.quantity) * p.price) as revenue
from pizza_types t
join pizzas p
on t.pizza_type_id = p.pizza_type_id
join order_details d
on p.pizza_id = d.pizza_id
group by t.category ,t.name ) as a ) as b
where rn <= 3;
```

name	category	revenue
The Thai Chicken Pizza	Chicken	43434.25
The Barbecue Chicken Pizza	Chicken	42768
The California Chicken Pizza	Chicken	41409.5
The Classic Deluxe Pizza	Classic	38180.5
The Hawaiian Pizza	Classic	32273.25
The Pepperoni Pizza	Classic	30161.75
The Spicy Italian Pizza	Supreme	34831.25
The Italian Supreme Pizza	Supreme	33476.75
The Sicilian Pizza	Supreme	30940.5
The Four Cheese Pizza	Veggie	32265.70000000065
The Mexicana Pizza	Veggie	26780.75
The Five Cheese Pizza	Veggie	26066.5

THANK YOU