Pizza Sales Management System

Bhuvana yelubandi

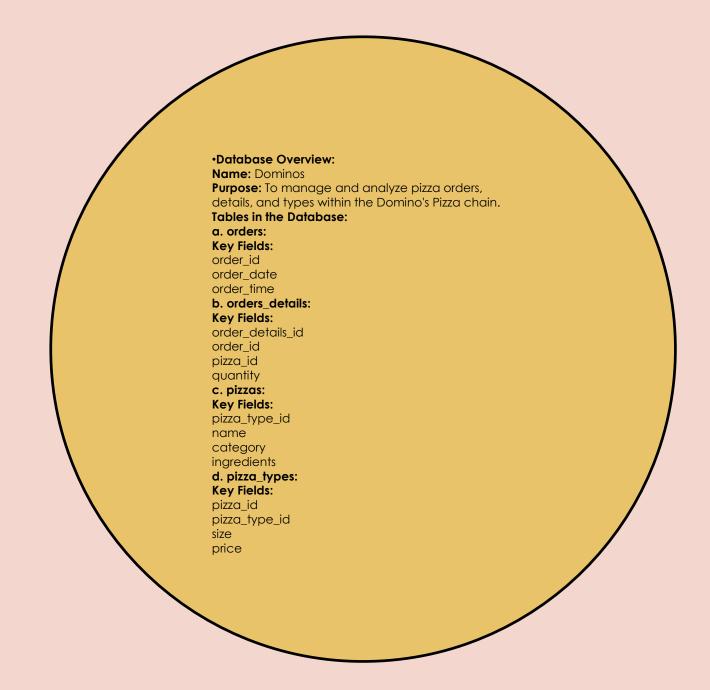
Agenda



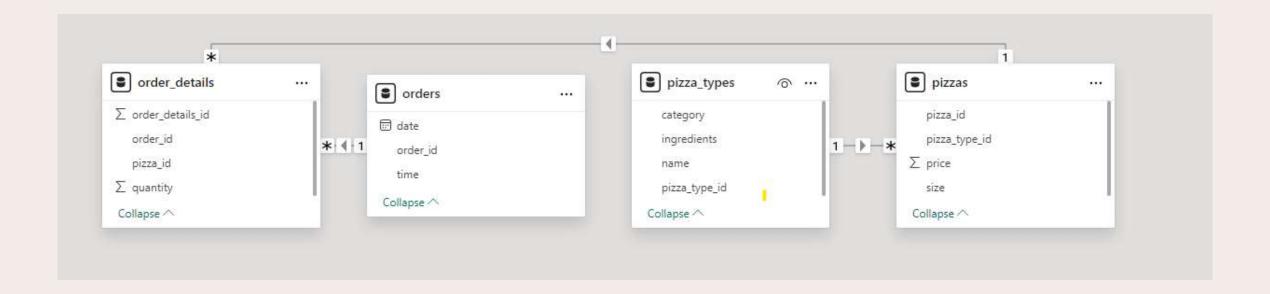
AIM

The "Pizza Sales Management System" project aims to develop a database-driven application to manage and analyze sales data for a pizza restaurant chain. Using MySQL, the system will store and manipulate data related to pizza orders, revenues, profits, and other relevant details to provide valuable insights for business decision-making.

Data overview



Schema



Queries Execution

1. Retrieve the total number of orders placed

```
select count(order_id) from orders
```



2. Calculate the total revenue generated from pizza sales

```
SELECT

ROUND(SUM(orders_details.quantity * pizzas.price),

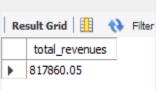
2) AS total_revenues

FROM

orders_details

JOIN

pizzas ON pizzas.pizza_id = orders_details.pizza_id
```



3. Identify the highest-priced pizza.



4. Identify the most common pizza size ordered.

```
pizzas.size,

COUNT(orders_details.order_details_id) AS order_count

FROM

pizzas

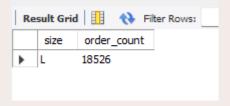
JOIN

orders_details ON pizzas.pizza_id = orders_details.pizza_id

GROUP BY pizzas.size

ORDER BY order_count DESC

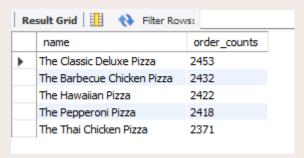
LIMIT 1;
```



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

```
SELECT
    pizza_types.name,
    SUM(orders_details.quantity) AS order_counts
FROM
    pizza_types
        JOIN
    pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
        JOIN
    orders_details ON pizzas.pizza_id = orders_details.pizza_id
GROUP BY pizza_types.name
ORDER BY order_counts DESC
LIMIT 5;
```



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

```
SUM(orders_details.quantity) AS total_quantity,
    pizza_types.category

FROM

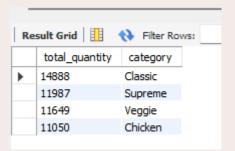
pizza_types
    JOIN

pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
    JOIN

orders_details ON pizzas.pizza_id = orders_details.pizza_id

GROUP BY pizza_types.category

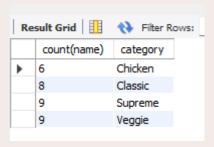
ORDER BY total_quantity DESC
```



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7. Retrieve the total number of orders placed





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

```
AVG(order_quantity)

FROM

(SELECT

orders.order_date,

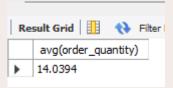
SUM(orders_details.quantity) AS order_quantity

FROM

orders

JOIN orders_details ON orders.order_id = orders_details.order_id

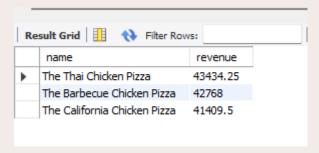
GROUP BY orders.order_date) AS table2
```



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

```
SELECT
    pizza_types.name,
    SUM(orders_details.quantity * pizzas.price) AS revenue
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    orders_details ON orders_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY revenue DESC
LIMIT 3;
```



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

```
SELECT pizza_types.category, SUM(orders_details.quantity * pizzas.price) / (SELECT ROUND(SUM(orders_details.quantity * pizzas.price),2) AS total_revenues

FROM orders_details

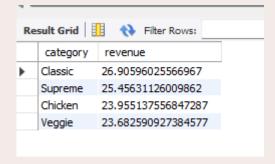
JOIN pizzas ON pizzas.pizza_id = orders_details.pizza_id) * 100 AS revenue

FROM pizza_types JOIN pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id

JOIN orders_details ON orders_details.pizza_id = pizzas.pizza_id

GROUP BY pizza_types.category

ORDER BY revenue DESC
```



Conclusion

The "Pizza Sales Management System" leverages MySQL to create a robust platform for managing and analyzing sales data in a pizza restaurant chain. By implementing efficient database management and query execution, the system facilitates informed decision-making and operational efficiency, ultimately contributing to enhanced business performance and customer satisfaction.

Thank you

Bhuvana yelubandi

yelubandibhuvana@gmail.com