Pizza Sales Management System

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Agenda



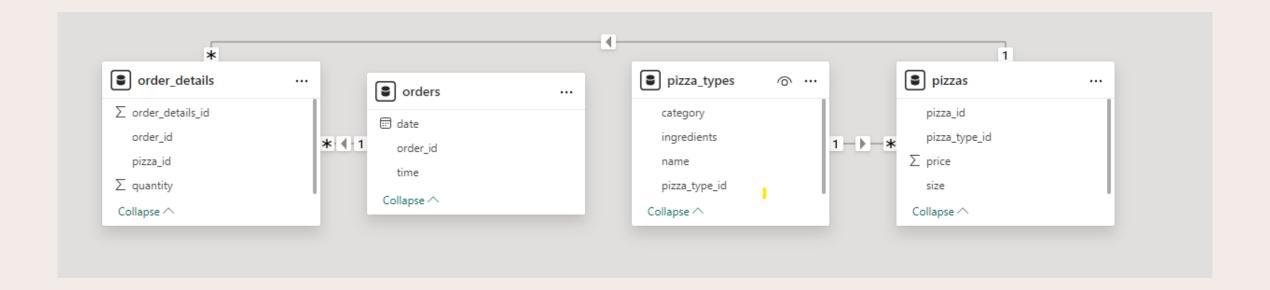
AIM

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 decisionmaking.

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),

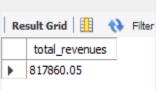
2) AS total_revenues

FROM

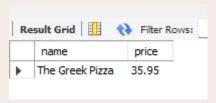
orders_details

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

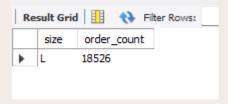
JOIN

orders_details ON pizzas.pizza_id = orders_details.pizza_id

GROUP BY pizzas.size

ORDER BY order_count DESC

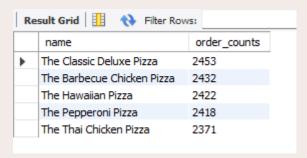
LIMIT 1;
```



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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.

```
SELECT

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

FROM

pizza_types

JOIN

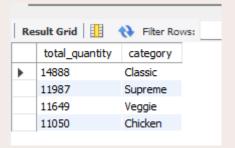
pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id

JOIN

orders_details ON pizzas.pizza_id = orders_details.pizza_id

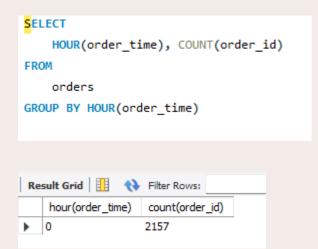
GROUP BY pizza_types.category

ORDER BY total_quantity DESC
```



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7. Determine the distribution of orders by hour of the day.



8. Retrieve the total number of orders placed





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

```
SELECT

AVG(order_quantity)

FROM

(SELECT

orders.order_date,

SUM(orders_details.quantity) AS order_quantity

FROM

orders

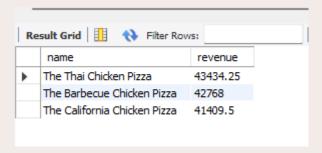
JOIN orders_details ON orders.order_id = orders_details.order_id

GROUP BY orders.order_date) AS table2
```



10. 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;
```



11. 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

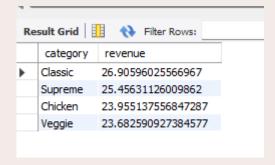
JOIN pizzas ON pizzas.pizza_id = orders_details.pizza_id) * 100 AS revenue

FROM pizza_types JOIN pizzas ON 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

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