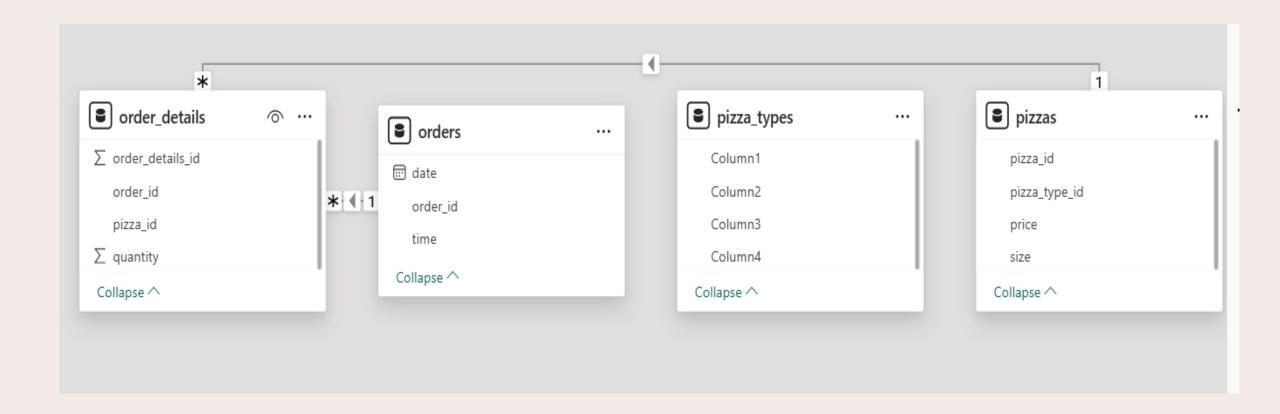
SQL Project Pizza Sales Analysis



Project Summary

- **1. Objective:** To analyze pizza sales data to:
- to provide actionable insights on sales performance,
- customer preferences,
- revenue generation.
- **2. About the dataset**: Analyzing sales records from a pizza restaurant, spanning one year. Dataset has 48,620 sales transaction to analyze.
- 3. Features of the project:
- Sub Query
- Group by
- Cumulative Sum
- Rank
- 4. Tools Used: MySQL for data querying and manipulation.

Data Schema



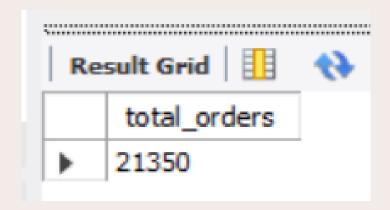


Basic Questions



Retrieve the total number of orders placed.

```
SELECT
     COUNT(order_id) AS total_orders
FROM
     orders;
```



Calculate the total revenue generated from pizza sales.

```
SELECT

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

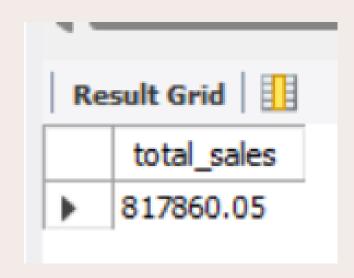
2) AS total_sales

FROM

order_details

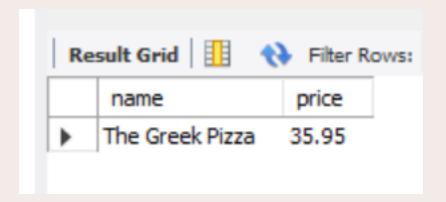
JOIN

pizzas ON pizzas.pizza_id = order_details.pizza_id
```



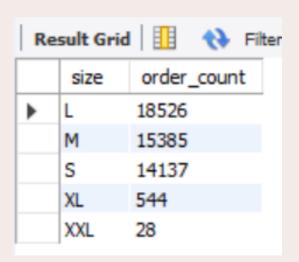
6 — Pizza Sales Analysis — 2025

Identify the highest-priced pizza.



Identify the most common pizza size ordered.

```
SELECT 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;
```



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

```
SELECT pizza_types.name,
sum(order_details.quantity) as quantity
from pizza_types join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
join order_details
on order_details.pizza_id = pizzas.pizza_id
group by pizza_types.name order by quantity desc limit 5;
```

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

9 _______ Pizza Sales Analysis _______ 2025



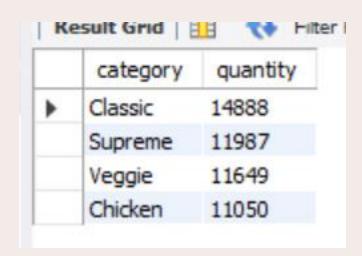
Intermediate Questions



Pizza Sales Analysis

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

```
SELECT pizza_types.category,
sum(order_details.quantity) as quantity
from pizza_types join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
join order_details
on order_details.pizza_id = pizzas.pizza_id
group by pizza_types.category order by quantity desc limit 5;
```



Determine the distribution of orders by hour of the day.

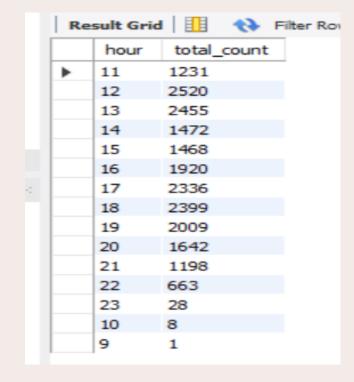
```
SELECT

HOUR(order_time) AS hour, COUNT(order_id) AS total_count

FROM

orders

GROUP BY HOUR(order_time);
```



12 — Pizza Sales Analysis — 2025

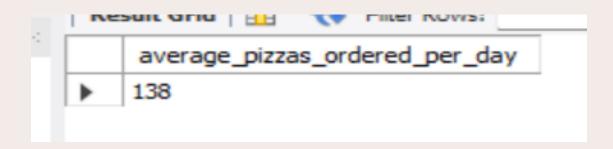
Join relevant tables to find the category-wise distribution of pizzas.

```
SELECT
    category, COUNT(name)
FROM
    pizza_types
GROUP BY category;
```



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

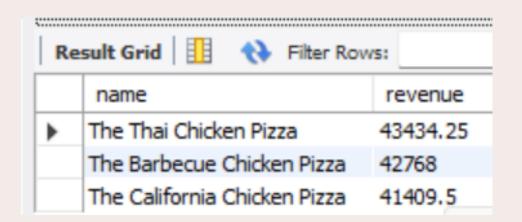
```
SELECT round(avg(quantity),0) as average_pizzas_ordered_per_day from
(SELECT orders.order_date, sum(order_details.quantity) as quantity
from orders join order_details
on orders.order_id = order_details.order_id
group by orders.order_date) as order_quantity;
```



14 — Pizza Sales Analysis — 2025

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

```
SELECT pizza_types.name,
sum(order_details.quantity * pizzas.price) as revenue
from pizza_types join pizzas
on pizzas.pizza_type_id = pizza_types.pizza_type_id
join order_details
on order_details.pizza_id = pizzas.pizza_id
group by pizza_types.name order by revenue desc limit 3;
```



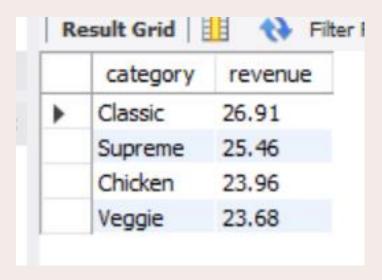


Advanced Questions



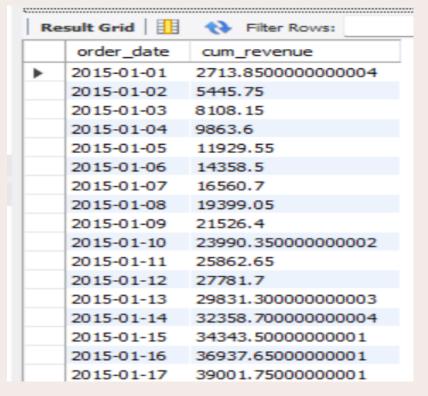
Pizza Sales Analysis ______ 2025

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



Analyze the cumulative revenue generated over time.

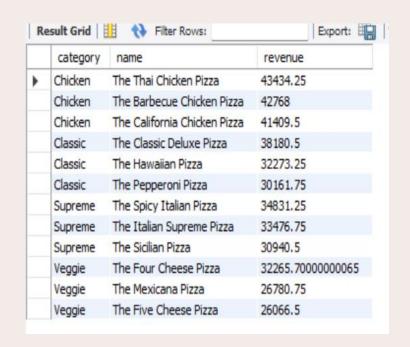
```
SELECT order_date,
sum(revenue) over (order by order_date) as cum_revenue
from
(SELECT orders.order_date,
SUM(order_details.quantity * pizzas.price) AS revenue
FROM order_details JOIN pizzas
ON pizzas.pizza_id = order_details.pizza_id
join orders
on orders.order_id = order_details.order_id
group by orders.order_date) as sales;
```



18 — Pizza Sales Analysis — Pizza Sales Analysis

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

```
SELECT category, name, revenue from
(SELECT category, name, revenue,
rank() over (partition by category order by revenue desc) as rn
from
(SELECT pizza_types.category, pizza_types.name,
sum((order_details.quantity) * pizzas.price) as revenue
from pizza_types join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
join order_details
on order_details.
on order_details.pizza_id = pizzas.pizza_id
group by pizza_types.category, pizza_types.name) as a) as b
where rn <=3;</pre>
```



Thank you

Muskan Kataria

https://github.com/muskankataria-source/SQL-Project-Pizza-Sales-Analysis

https://www.linkedin.com/in/muskan-kataria-a38443342/

