



Introduction

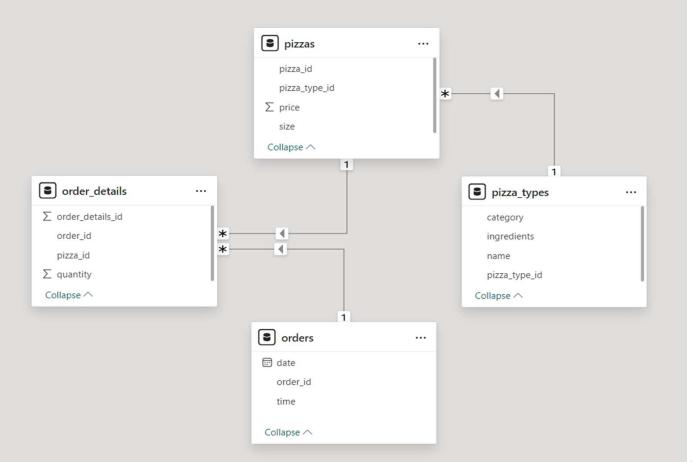


- Hello everyone, my name is Mital Vejani,
- I'm a Data Analyst with a passion for uncovering insights from data.
- In this project, I've undertaken a detailed analysis of pizza sales, utilizing SQL from basic to advanced levels.
- This presentation will walk you through the methods and insights gained from this analysis, showcasing how SQL can be a powerful tool for driving data-driven decisions.





















- * Imported data from a CSV file into MySQL Workbench.
- Utilized Joins to combine data from multiple tables.
- Applied Group By to aggregate data for insightful analysis.
- * Used Order By to sort data for better clarity.
- Implemented Subqueries to solve complex questions.



Retrieve the total number of orders placed •

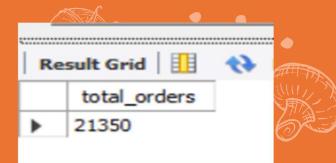


SELECT COUNT(order_id)
AS total_orders
FROM orders;











Calculate the total revenue generated from pizza sales

```
SELECT

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

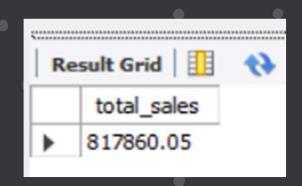
2) AS total_sales

FROM

order_details

JOIN

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

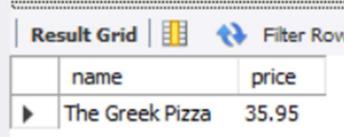






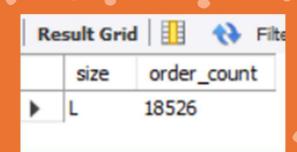
Identify the highest-priced pizza





Identify the most common pizza size ordered







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



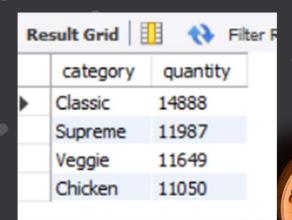


-	esult Grid 🎚 🙌 Filter Ro	
	name	quantity
•	The Classic Deluxe Pizza	2453
	The Barbecue Chicken Pizza	2432
	The Hawaiian Pizza	2422
	The Pepperoni Pizza	2418
	The Thai Chicken Pizza	2371



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;
```





Determine the distribution of orders by hour of the day

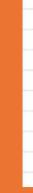


```
SELECT
   HOUR(time) AS Hours,
   COUNT(order_id) AS Order_count
FROM
   orders
GROUP BY HOUR(time);
```



Result Grid		Filter
	Hours	Order_count
•	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336
	18	2399
	19	2009
	20	1642
	21	1198
	22	663
	23	28
	10	8
	9	1







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



SELECT

category, COUNT(name)

FROM

pizza_types
GROUP BY category;





R	esult Grid	Filter Row
	category	COUNT(name)
Þ	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9





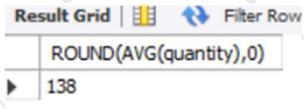


```
SELECT
    ROUND(AVG(quantity), 0)
FROM

(SELECT
    orders.date, SUM(order_details.quantity) AS quantity
FROM
    orders
JOIN order_details ON orders.order_id = order_details.order_id
GROUP BY orders.date) AS order_quantity;
```









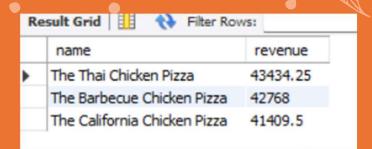




Determine the top 3 most ordered pizza types based on revenue



```
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;
```



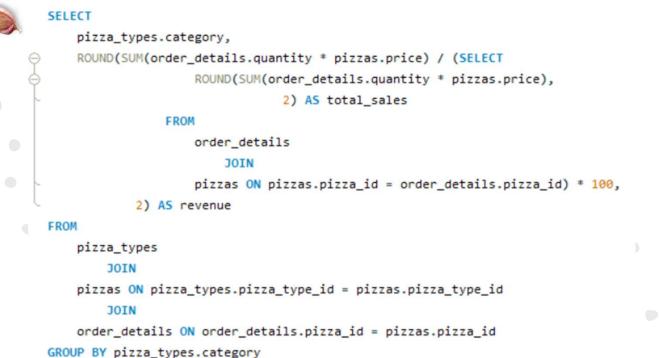




ORDER BY revenue DESC;

Calculate the percentage contribution of each pizza type to total revenue





R	esult Grid	🙀 🙌 Filter
	category	revenue
•	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68







Analyze the cumulative revenue generated over time

```
SELECT date,
ROUND(SUM( revenue) OVER (ORDER BY date), 2)AS cum_revenue
FROM

(SELECT orders.date,
SUM(order_details.quantity*pizzas.price) AS revenue
FROM order_details JOIN pizzas
ON order_details.pizza_id = pizzas.pizza_id
JOIN orders
ON orders.order_id = order_details.order_id
GROUP BY orders.date) AS sales;
```

Re	sult Grid 📗	Name of the Filter Rows:
	date	cum_revenue
•	2015-01-01	2713.85
	2015-01-02	5445.75
	2015-01-03	8108.15
	2015-01-04	9863.6
	2015-01-05	11929.55
	2015-01-06	14358.5
	2015-01-07	16560.7
	2015-01-08	19399.05
	2015-01-09	21526.4
	2015-01-10	23990.35







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



```
SELECT category, name, revenue,

RANK() OVER(PARTITION BY category

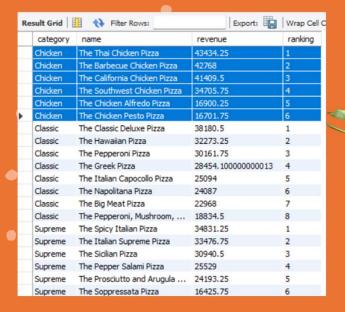
ORDER BY revenue DESC) AS ranking

FROM
```

```
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.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category, pizza_types.name) AS a;
```







Re	esult Grid	Filter Rows:	Export:	Wrap Cell 0
Г	category	name	revenue	ranking
	Chicken	The Thai Chicken Pizza	43434.25	1
	Chicken	The Barbecue Chicken Pizza	42768	2
	Chicken	The California Chicken Pizza	41409.5	3
	Chicken	The Southwest Chicken Pizza	34705.75	4
	Chicken	The Chicken Alfredo Pizza	16900.25	5
	Chicken	The Chicken Pesto Pizza	16701.75	6
	Classic	The Classic Deluxe Pizza	38180.5	1
	Classic	The Hawaiian Pizza	32273.25	2
	Classic	The Pepperoni Pizza	30161.75	3
	Classic	The Greek Pizza	28454.100000000013	4
	Classic	The Italian Capocollo Pizza	25094	5
	Classic	The Napolitana Pizza	24087	6
	Classic	The Big Meat Pizza	22968	7
•	Classic	The Pepperoni, Mushroom,	18834.5	8
	Supreme	The Spicy Italian Pizza	34831.25	1
	Supreme	The Italian Supreme Pizza	33476.75	2
	Supreme	The Sicilian Pizza	30940.5	3
	Supreme	The Pepper Salami Pizza	25529	4
	Supreme	The Prosciutto and Arugula	24193.25	5
	Supreme	The Soppressata Pizza	16425.75	6

Re	esult Grid	Filter Rows:	Export:	Wrap Cell Co
	category	name	revenue	ranking
	Classic	The Big Meat Pizza	22968	7
	Classic	The Pepperoni, Mushroom,	18834.5	8
	Supreme	The Spicy Italian Pizza	34831.25	1
	Supreme	The Italian Supreme Pizza	33476.75	2
	Supreme	The Sicilian Pizza	30940.5	3
	Supreme	The Pepper Salami Pizza	25529	4
	Supreme	The Prosciutto and Arugula	24193.25	5
	Supreme	The Soppressata Pizza	16425.75	6
	Supreme	The Calabrese Pizza	15934.25	7
	Supreme	The Spinach Supreme Pizza	15277.75	8
•	Supreme	The Brie Carre Pizza	11588.4999999999	9
	Veggie	The Four Cheese Pizza	32265.70000000065	1
	Veggie	The Mexicana Pizza	26780.75	2
	Veggie	The Five Cheese Pizza	26066.5	3
	Veggie	The Vegetables + Vegetable	24374.75	4
	Veggie	The Spinach and Feta Pizza	23271.25	5
	Veggie	The Italian Vegetables Pizza	16019.25	6
	Veggie	The Spinach Pesto Pizza	15596	7
	Veggie	The Mediterranean Pizza	15360.5	8
	Veggie	The Green Garden Pizza	13955.75	9

