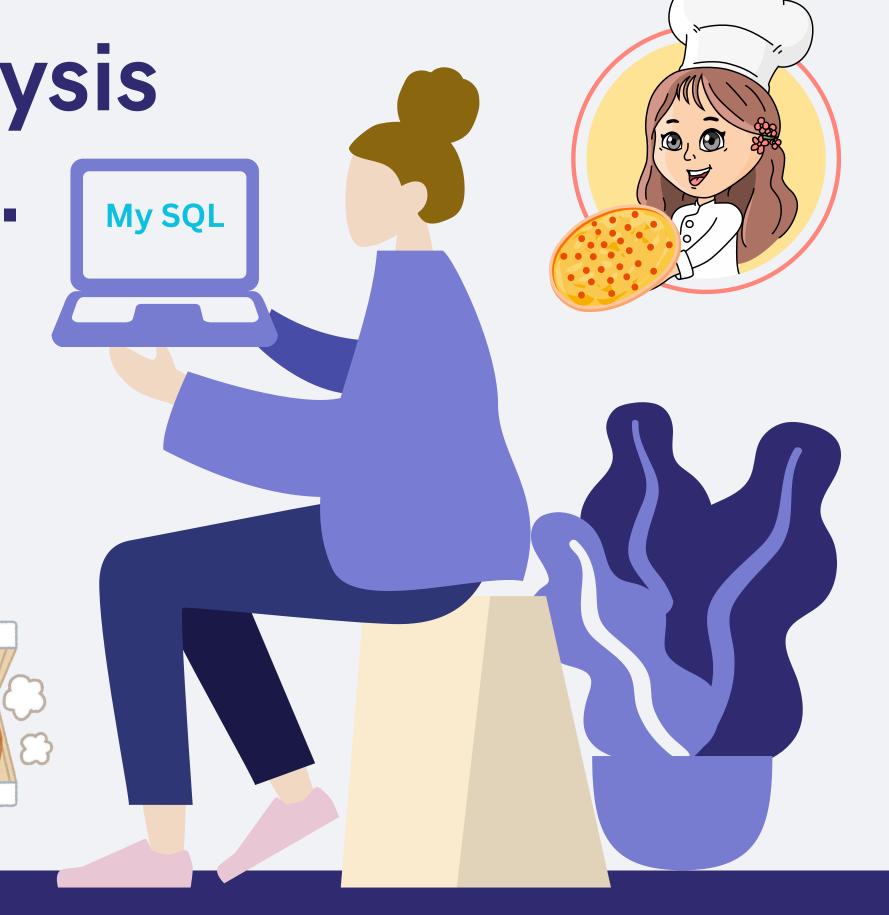
Pizzas Sales Data Analysis Using My SQL Queries.

Presentation By

Aditya Prakash



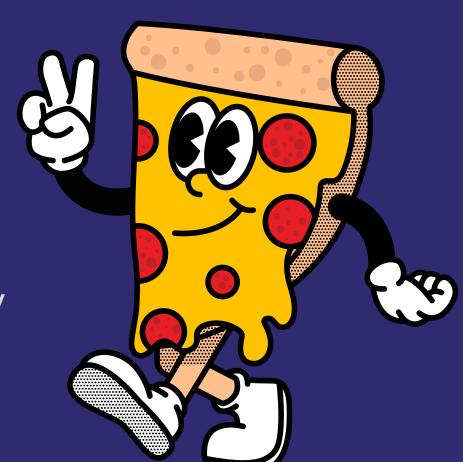


In this project, I performed a comprehensive analysis of pizza sales data using MySQL to gain insights into sales performance, customer preferences, and revenue patterns. The analysis was conducted through a series of SQL queries addressing basic, intermediate, and advanced analytical tasks.

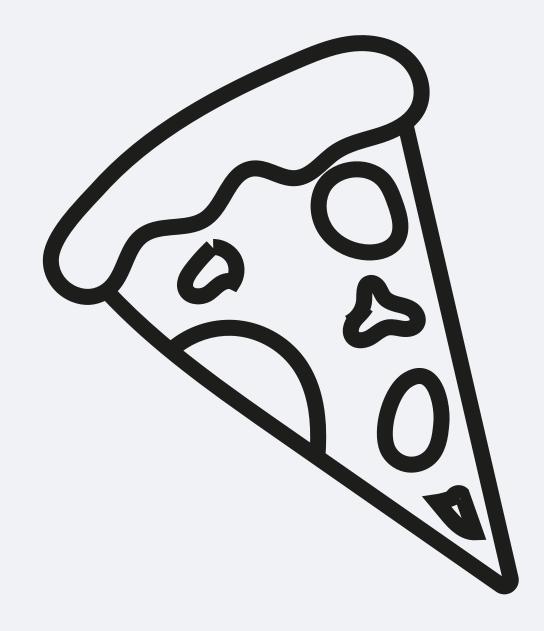


Problems Like:-

- . Total Quantity of Each Pizza Category
- . Category-Wise Distribution of Pizzas
- . Average Number of Pizzas Ordered Per Day
- . Top 3 Pizza Types by Revenue
- .Percentage Contribution to Total Revenue
- . Top 3 Pizza Types by Revenue for Each Category



Calculate the total revenue generated from pizza sales.



Solution

```
SELECT

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

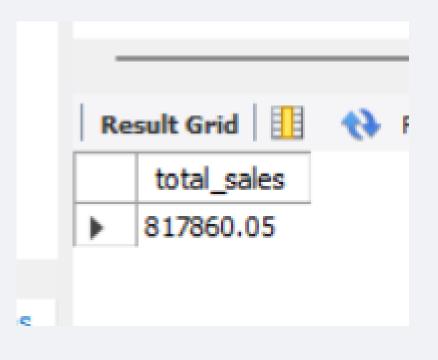
AS total_sales

FROM

order_details

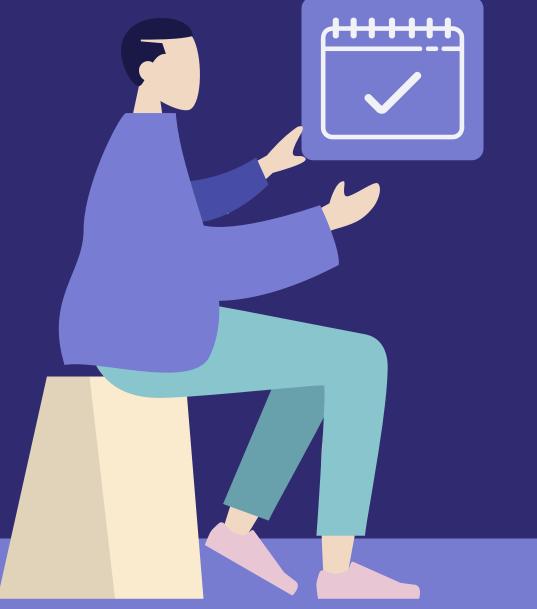
JOIN

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





Identify the most common pizza size ordered.



```
3 • SELECT
4     pizzas.size,
5     COUNT(order_details.order_details_id) AS order_count
6     FROM
7     pizzas
8          JOIN
9     order_details ON pizzas.pizza_id = order_details.pizza_id
10     GROUP BY pizzas.size
11     ORDER BY order_count DESC;
```



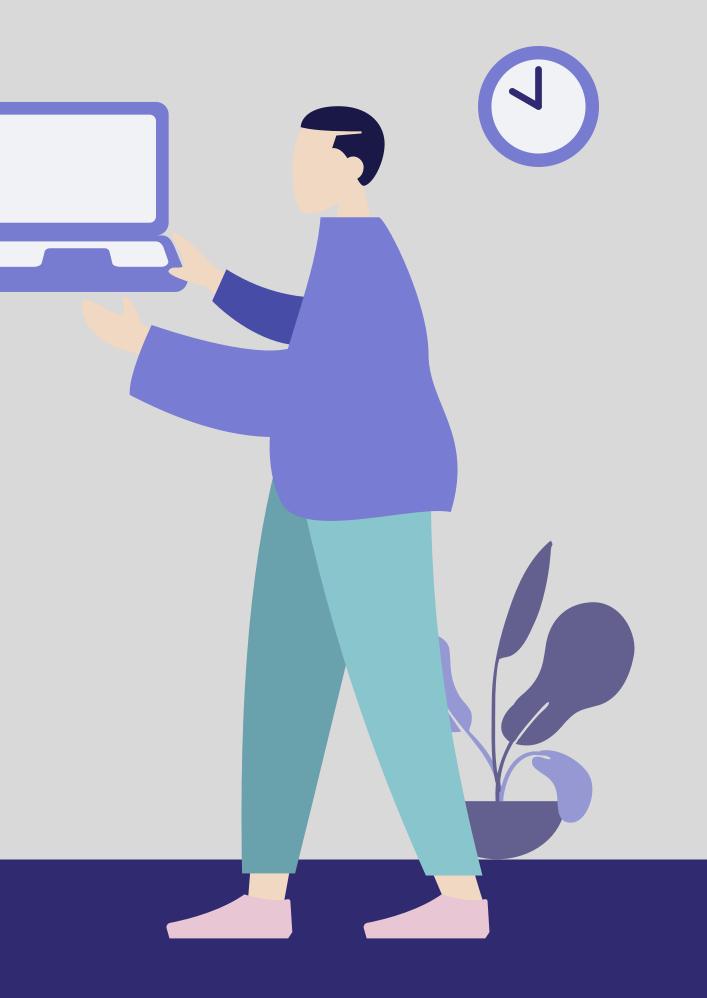
Re	sult Grid	Filter Ro
	size	order_count
•	L	18526
	M	15385
	S	14137
	XL	544
	XXL	28
	_	

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

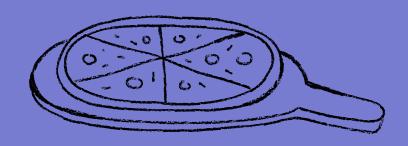
```
SELECT
           pizza_types.name, SUM(order_details.quantity) AS quantity
       FROM
           pizza_types
               JOIN
           pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
               JOIN
 9
           order_details ON order_details.pizza_id = pizzas.pizza_id
10
       GROUP BY pizza_types.name
11
       ORDER BY quantity DESC
12
13
       LIMIT 5;
14
```

name quantity The Classic Deluxe Pizza 2453 The Barbecue Chicken Pizza 2432 The Hawaiian Pizza 2422	Result Grid				
The Barbecue Chicken Pizza 2432 The Hawaiian Pizza 2422		name	quantity		
The Hawaiian Pizza 2422	•	The Classic Deluxe Pizza	2453		
		The Barbecue Chicken Pizza	2432		
TI D : D:		The Hawaiian Pizza	2422		
The Pepperoni Pizza 2418		The Pepperoni Pizza	2418		
The Thai Chicken Pizza 2371		The Thai Chicken Pizza	2371		

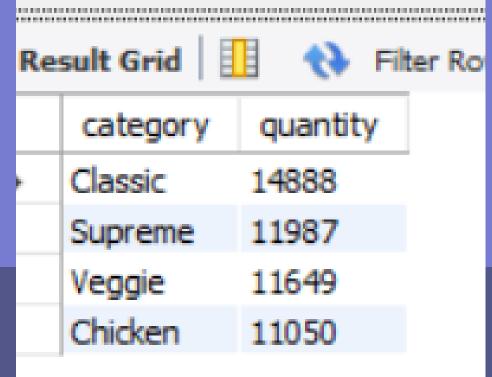




Join the necessary tables to find the total quantity of each pizza category ordered.



```
SELECT
           pizza_types.category,
           SUM(order_details.quantity) AS quantity
       FROM
           pizza_types
               JOIN
10
           pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
               JOIN
11
12
           order_details ON order_details.pizza_id = pizzas.pizza_id
13
       GROUP BY pizza_types.category
       ORDER BY quantity DESC;
14
15
```





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



```
# SELECT
## ROUND(AVG(quantity), 0) AS avg_pizza_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;
```

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

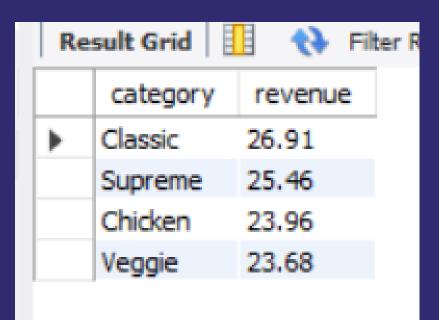
```
SELECT
         pizza_types.name,
         SUM(order_details.quantity * pizzas.price) AS revenue
     FROM
         pizza_types
             JOIN
         pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
            JOIN
10
         order_details ON order_details.pizza_id = pizzas.pizza_id
-
12
     GROUP BY pizza_types.name
                                                          13
     ORDER BY revenue DESC
     LIMIT 3;
14
```



Re	sult Grid 🔠 💎 Filter Row	'S:
	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 type to total revenue.

```
SELECT
           pizza_types.category,
           ROUND(SUM(order_details.quantity * pizzas.price) / (SELECT
                           ROUND(SUM(order_details.quantity * pizzas.price),
                                       2) AS total_sales
 8
                       FROM
 9
                           order_details
10
11
                               JOIN
                           pizzas ON pizzas.pizza_id = order_details.pizza_id) * 100,
12
                   2) AS revenue
13
14
      FROM
15
           pizza_types
16
               JOIN
           pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
17
               JOIN
18
           order_details ON order_details.pizza_id = pizzas.pizza_id
19
      GROUP BY pizza_types.category
20
21
      ORDER BY revenue DESC;
22
```





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 order_details.pizza_id = pizzas.pizza_id
      join orders
10
      on orders.order_id = order_details.order_id
11
12
      group by orders.order_date) as sales;
```



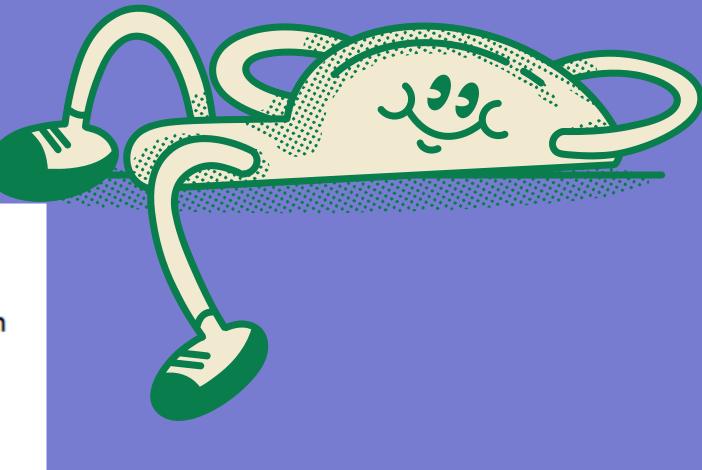
Re	sult Grid 🔠	Filter Rows:
	order_date	cum_revenue
•	2015-01-01	2713.8500000000004
	2015-01-02	5445.75
	2015-01-03	8108.15
	2015-01-04	9863.6
	2015-01-05	11929.55
	2015-01-06	14358.5
	2015-01-07	16560.7
	2015-01-08	19399.05
	2015-01-09	21526.4
	2015-01-10	23990.350000000002
	2015-01-11	25862.65
	2015-01-12	27781.7
	2015-01-13	29831.300000000003
	2015-01-14	32358.700000000004

Result 1 ×

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

```
select 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
10
     on pizza_types.pizza_type_id = pizzas.pizza_type_id
11
12
     join order_details
13
     on order_details.pizza_id = pizzas.pizza_id
14
     group by pizza_types.category, pizza_types.name) as a) as b
     where rn <=3;
15
```

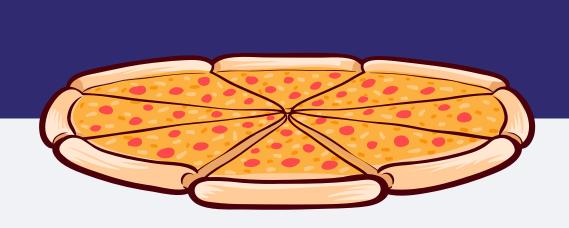


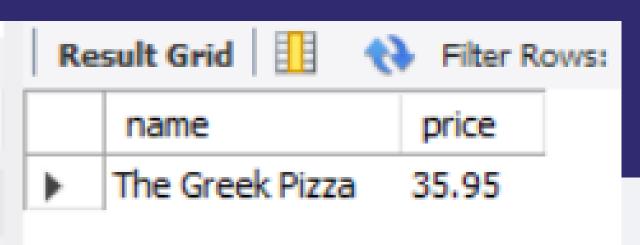


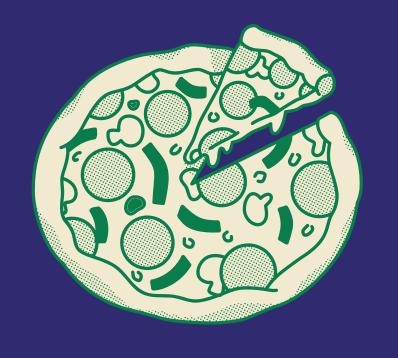
Re	sult Grid 🔢 🙌 Filter Row	751	Exp
	name	revenue	
•	The Thai Chicken Pizza	43434.25	
	The Barbecue Chicken Pizza	42768	
	The California Chicken Pizza	41409.5	
	The Classic Deluxe Pizza	38180.5	
	The Hawaiian Pizza	32273.25	
	The Pepperoni Pizza	30161.75	
	The Spicy Italian Pizza	34831.25	
	The Italian Supreme Pizza	33476.75	
	The Sicilian Pizza	30940.5	
	The Four Cheese Pizza	32265.70000000065	
	The Mexicana Pizza	26780.75	
	The Five Cheese Pizza	26066.5	

Identify the highest-priced pizza.

```
SELECT
          pizza_types.name, pizzas.price
     FROM
          pizza_types
              JOIN
          pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
     ORDER BY pizzas.price DESC
9
     LIMIT 1;
10
11
```









Determine the distribution of orders by hour of the day.

```
3 • SELECT
4     HOUR(order_time) AS hour, COUNT(order_id) AS order_count
5     FROM
6     orders
7     GROUP BY HOUR(order_time);
```



