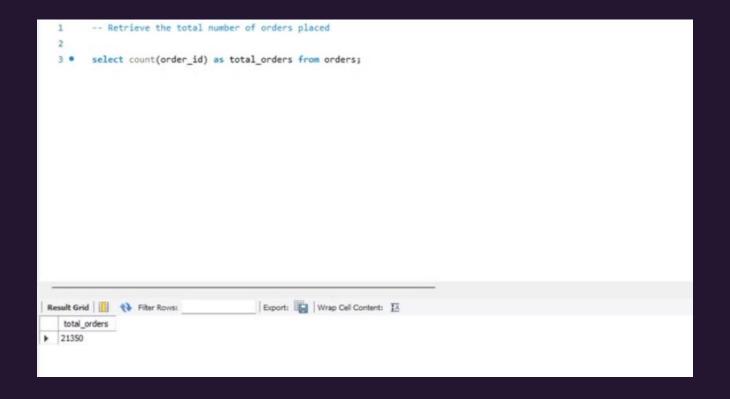
Pizza Sales Analysis

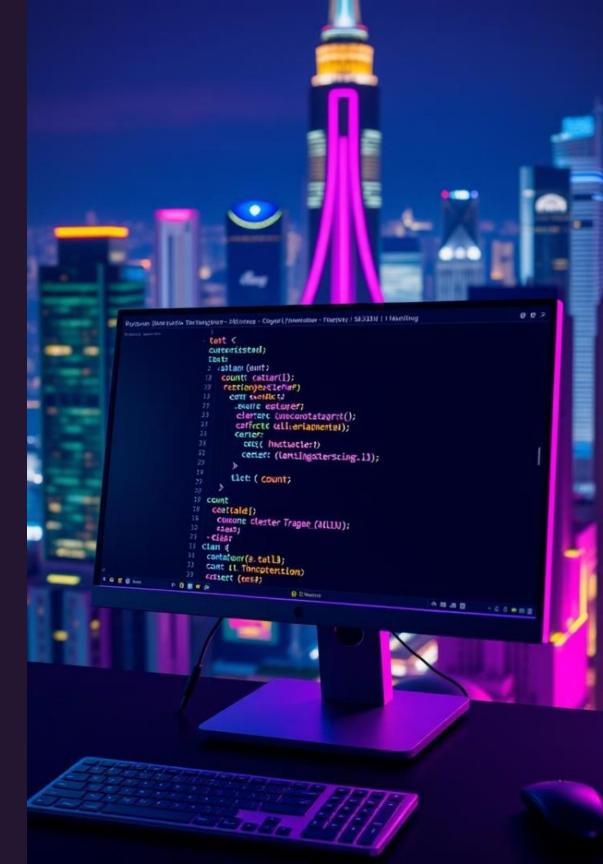
This presentation delves into the pizza sales data using MySQL queries. We'll analyze key metrics such as order volume, revenue, pizza popularity, and ordering patterns. This data will provide valuable insights into customer preferences and sales trends.



Retrieve the Total Number of Orders

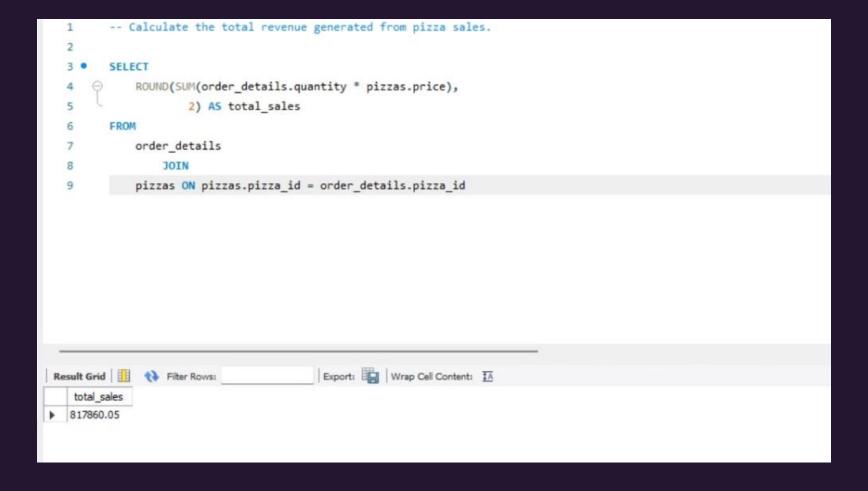
This query calculates the total number of orders placed. This metric is crucial for understanding the overall activity and demand for pizzas.





Calculate Total Revenue from Pizza Sales

This query determines the total revenue generated from pizza sales. It considers the quantity of each pizza ordered and its corresponding price.





Identify the Highest-Priced Pizza

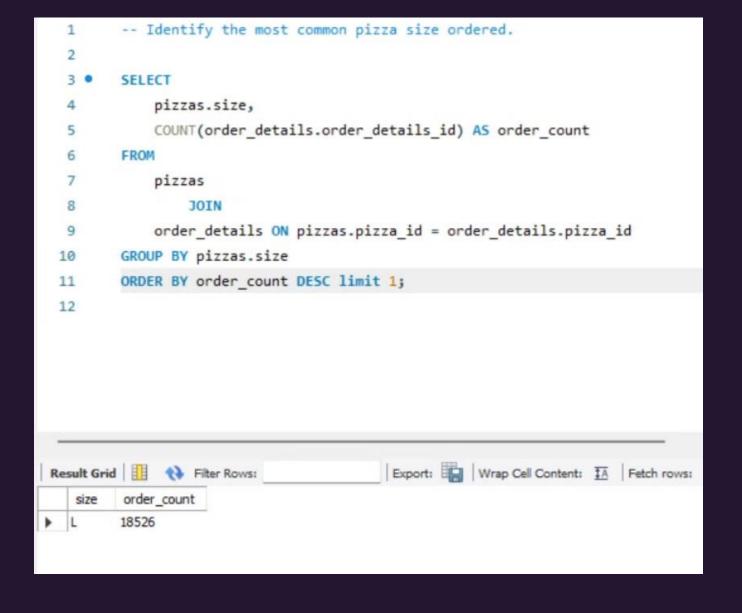
This query pinpoints the pizza with the highest price. This information helps in understanding the pricing strategies and identifying potential high-margin items.

```
-- Identify the highest-priced pizza.
          pizza_types.name, pizzas.price
           pizza_types
              JOIN
          pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
       ORDER BY pizzas.price DESC
       LIMIT 1;
                                   Export: Wrap Cell Content: TA Fetch rows:
```

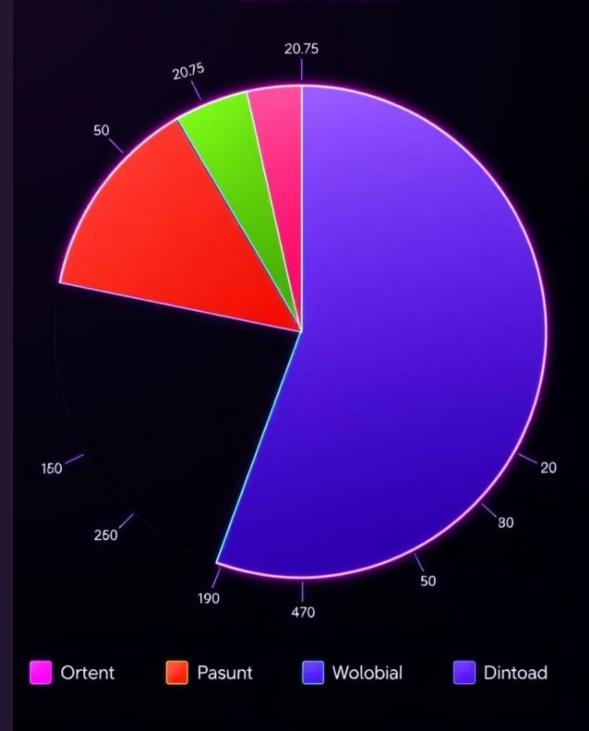


Most Common Pizza Size Ordered

This query reveals the most popular pizza size ordered by customers. This insight is valuable for inventory management and optimizing pizza production.

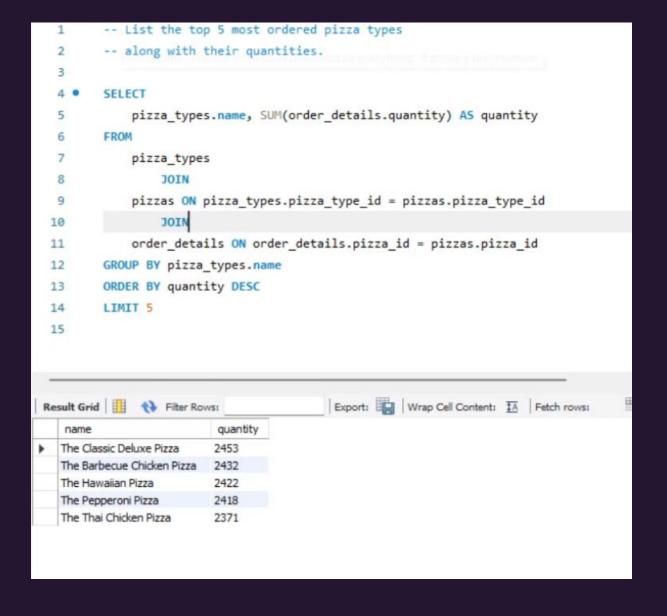


PIZZA SIZE



Top 5 Most Ordered Pizza Types

This query identifies the top 5 most ordered pizza types. This information allows us to understand customer preferences and tailor marketing strategies accordingly.

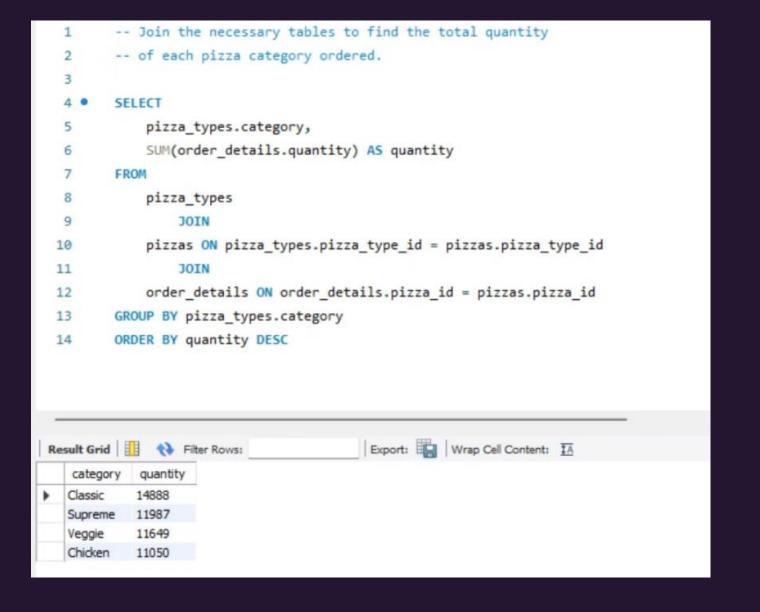


PIZZA

	Pizza	Scarts	Stader	Shory	Plyill	Stide
Bdnedtizs	3333		2660		1244	8660
Bdnedtize	1689		3007		1199	.1660
Bdneddues	1963		1090		1100	.1960
Bdnedties	3373		3870		1419	.3650
Bdnedtias	1550		5550		1670	.9980
Bdnedtizes	3990		3450		1690	.3860
Bdnedttas	2380		3991		1223	.9070
Sdnedtizs	7259		2552		1140	.3640
Bdnedtize	7290		3002		3169	.3640
Bdneddues	5877		3207		1827	.3360
Sdnedtizs	5691		3430		1605	.3660
Bdnedtizs	3331		3301		1488	3880
Sdneddues	7323		3606		1825	.9500
Bdneadues	6820		3670		1677	.1680
Bdnedtlues	2560		5650		1817	.3480
Bdneodues	2225		3370		1574	.7640
Bdneddues	2329		5350		1721	1300

Pizza Category-Wise Distribution

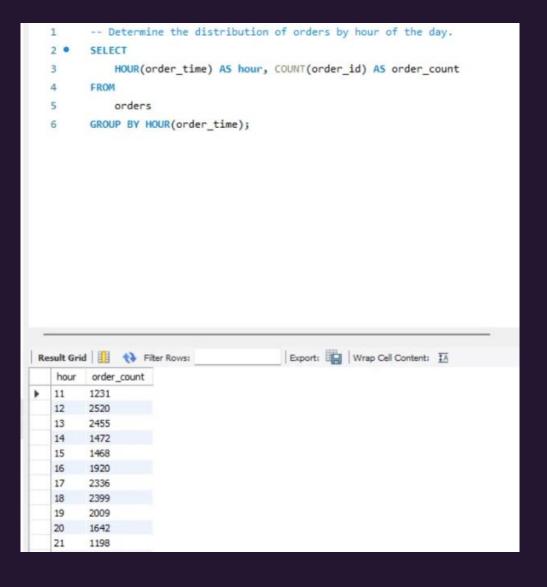
This query analyzes the distribution of pizzas across different categories. This insight helps in understanding the overall product mix and customer preferences.

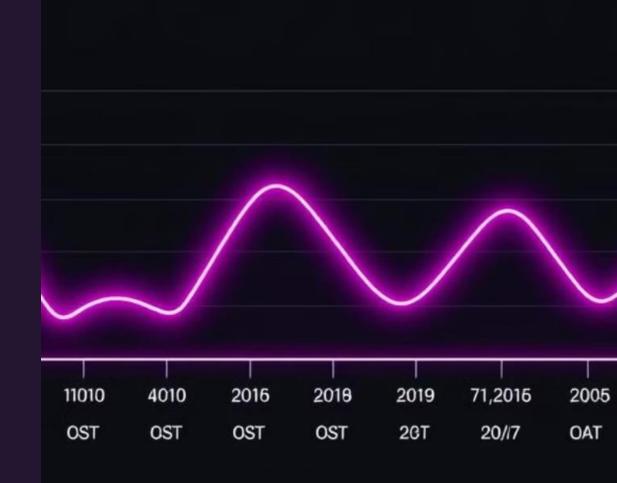




Order Distribution by Hour of the Day

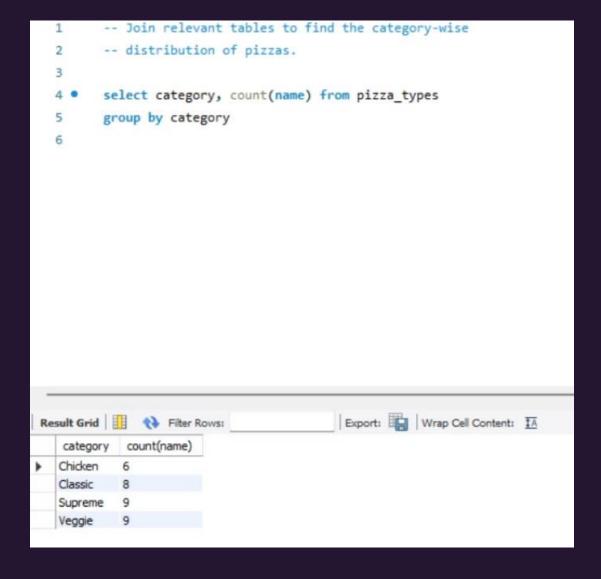
This query reveals the distribution of orders by the hour of the day. This information allows us to understand peak ordering times and optimize staffing levels.



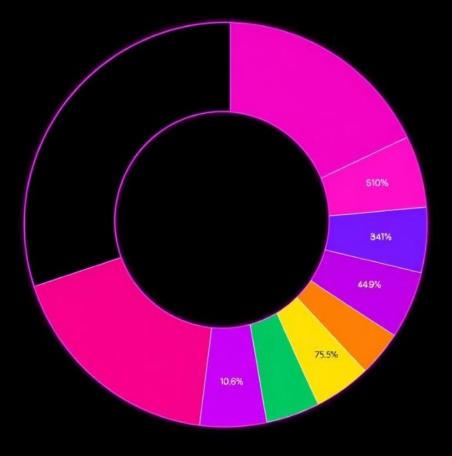


Category-Wise Pizza Distribution

This query provides a breakdown of pizzas by category, indicating the relative popularity of different pizza types.

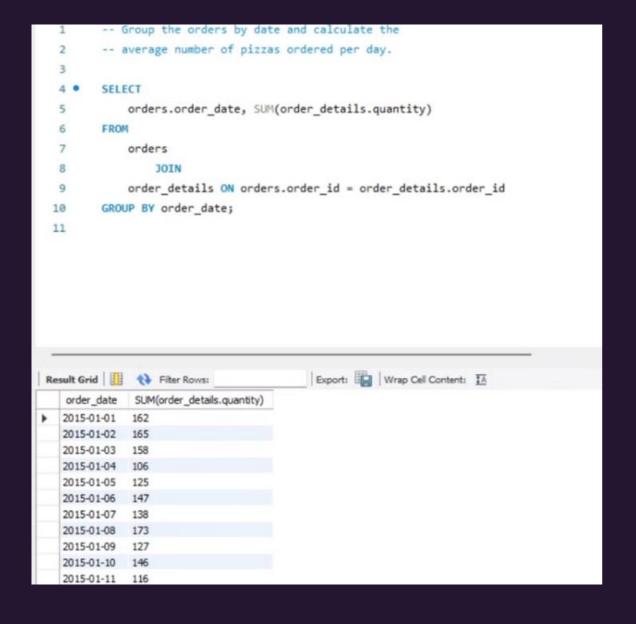


Pizzas smallesrrtibit Plucttcirlizt



Average Pizzas Ordered Per Day

This query calculates the average number of pizzas ordered per day. This metric helps in understanding the overall sales volume and identifying any trends or fluctuations.





Top 3 Most Ordered Pizza Types by Revenue

```
-- Determine the top 3 most ordered pizza types
         -- based on revenue.
         SELECT
             pizza_types.name,
             sum(order_details.quantity * pizzas.price) AS revenue
         FROM
  8
             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
 15
             group by pizza_types.name order by revenue desc limit 3;
Result Grid Filter Rows:
                                           Export: Wrap Cell Content: IA Fetch rows:
                          revenue
  The Thai Chicken Pizza
                         43434.25
  The Barbecue Chicken Pizza
                         42768
  The California Chicken Pizza
                         41409.5
```



percentage contribution of each pizza type to total revenue.

```
-- Calculate the percentage contribution
       -- of each pizza type to total revenue.
        SELECT
            pizza_types.category,
           SUM(order_details.quantity * pizzas.price) AS revenue
           pizza_types
                JOIN
            pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
10
11
           order_details ON order_details.pizza_id = pizzas.pizza_id
12
       GROUP BY pizza_types.category
13
       ORDER BY revenue DESC;
14
                                         Export: Wrap Cell Content: IA
             Filter Rows:
  category
          220053.1000000001
          208196.99999999822
          195919.5
  Chicken
           193690.45000000298
```



Analyze the cumulative revenue generated over time.

```
-- Analyze the cumulative revenue generated over time.
        select order_date,
        sum(revenue) over(order by order_date) as cum_revenue
        (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
10
        join orders
11
       on orders.order_id = order_details.order_id
12
        group by orders.order_date) as sales;
13
                                         Export: Wrap Cell Content: IA
            2713.85000000000004
            11929.55
  2015-01-05
            14358.5
  2015-01-06
            16560.7
  2015-01-07
            19399.05
  2015-01-08
            21526.4
            23990.3500000000002
  2015-01-11 25862.65
```



Recommendations

- **1. Focus on High-Revenue Pizzas:** From the analysis, identifying the top pizza types by revenue can inform which items to promote, both for sales and marketing campaigns.
- **2. Optimize Pizza Sizes:** Understanding the most common pizza sizes ordered can help streamline inventory management and production efficiency, ensuring you have the right sizes in stock.
- **3. Peak Ordering Times:** The distribution of orders by hour could be valuable for staffing and preparing for peak times, enhancing customer experience.
- **4. Category Diversification:** The category-wise distribution can highlight underperforming pizza categories, allowing for targeted promotions or adjustments in the menu.
- **5. Revenue Strategy:** The percentage contribution analysis can guide promotional strategies, ensuring that higher-margin pizzas or popular ones are emphasized.



Conclusion

By analyzing the total orders, revenue, and customer preferences across various dimensions (pizza type, category, size, etc.), we gain a deeper understanding of customer behavior. This data-driven insight enables better decision-making in terms of inventory management, staffing, marketing strategies, and menu optimization. With a focus on high-revenue pizzas and peak ordering times, businesses can enhance profitability and customer satisfaction.

