# Pizza Sales Analysis

PIZZA IS ONE OF THE FAVORITE FOODS OF ALMOST EVERYONE IN THE WORLD.



- We all love pizza! And if you're reading this, it's likely you also share a
  passion for data analytics. What could be a more perfect blend than
  combining our love for food and data by delving into a project
  focused on analyzing Pizza Sales?
- I embarked on this journey in april 2024, when I began learning SQL. As I progressed, the idea of sharing this project with others starting out on their analytics journey seemed only natural. So, I designed this article to be like a practice project where you can follow along and try to attempt the questions mentioned below and compare the answers (code included). At last, I'll summarize the key insights and give datadriven recommendations that can potentially increase the store's revenue.

- As always, let's get started with data retrieval.
- For this project, I sourced pizza sales data from Kaggle (link) which contains four csv files: order\_details.csv, orders.csv, pizza\_types.csv, and pizzas.csv, which I subsequently imported into MySQL Workbench.
- orders.csv has columns : order\_id, date, time
- order\_details.csv has columns : order\_details\_id, order\_id, pizza\_id, quantity
- pizza\_types.csv has columns : pizza\_type\_id, name, category, ingredients
- pizzas.csv has columns: pizza\_id, pizza\_type\_id, size, price

### Retrieve the total number of orders placed.

```
-- Retrieve the total number of orders placed.
        SELECT
             COUNT(order_id) AS cnt
        FROM
             orders;
Result Grid
                                          Export: Wrap Cell Content: ‡A
              Filter Rows:
   cnt
  21350
```

#### Calculate the total revenue generated from pizza sales.

#### Identify the highest-priced pizza.

```
SELECT
            name, pp.price
 3
       FROM
 5
            pizza_types p
                JOIN
 6
            pizzas pp ON p.pizza_type_id = pp.pizza_type_id
       ORDER BY pp.price DESC
 8
        LIMIT 1
 9
                                          Export: Wrap Cell Content: TA Fetch rows:
esult Grid  Filter Rows:
                price
  name
 The Greek Pizza
               35.95
```

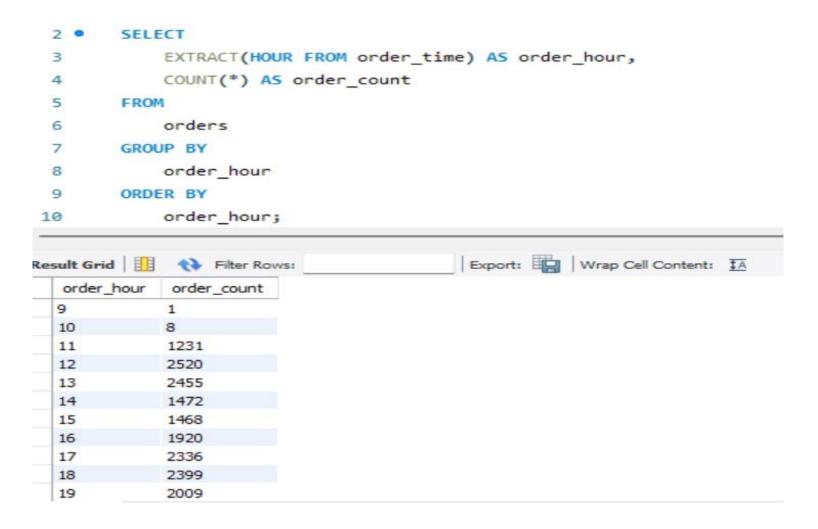
<u>List the top 5 most ordered pizza types along with their quantities.</u>

```
SELECT
             p.name, sum(quantity) AS q
        FROM
             pizza_types p
                 JOIN
  6
             pizzas pp ON p.pizza_type_id = pp.pizza_type_id
                 JOIN
             order details o ON o.pizza id = pp.pizza id
  9
 10
        GROUP BY p.name
11
        ORDER BY q DESC
12
        LIMIT 5
Export: Wrap Cell Content: TA Fetch rows:
   name
                         q
  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
           p.category, sum(quantity) AS q
  4
        FROM
           pizza_types p
               JOIN
  6
           pizzas pp ON p.pizza_type_id = pp.pizza_type_id
               JOIN
  8
           order details o ON o.pizza id = pp.pizza id
  9
        GROUP BY p.category
10
Export: Wrap Cell Content: TA
  category q
          14888
  Classic
          11649
  Veggie
          11987
  Supreme
          11050
  Chicken
```

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



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

```
5 SELECT
category, COUNT(pizza_type_id) AS c
FROM
pizza_types
GROUP BY category
```



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

```
SELECT
  2 •
              pt.name, SUM(p.price * od.quantity) AS revenue
         FROM
             pizza types pt
  5
  6
                  JOIN
             pizzas p ON pt.pizza type id = p.pizza type id
  7
                  JOIN
  8
  9
             order details od ON od.pizza id = p.pizza id
         GROUP BY pt.name
 10
 11
         ORDER BY revenue DESC
 12
         LIMIT 3
Result Grid
               ♦ Filter Rows:
                                             Export: Wrap Cell Content: TA
                                                                             Fetch rows:
   name
                           revenue
  The Thai Chicken Pizza
                           43434.25
  The Barbecue Chicken Pizza
                          42768
  The California Chicken Pizza
                         41409.5
```

#### Key Insights and Recommendations

- The Thai Chicken Pizza is top selling pizza for the restaurant.
- The classic Deluxe Pizza is the most ordered pizza for them.
- The classic category pizza is the most ordered category.
- The total revenue genrated by sales reported is 8,17,860.



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