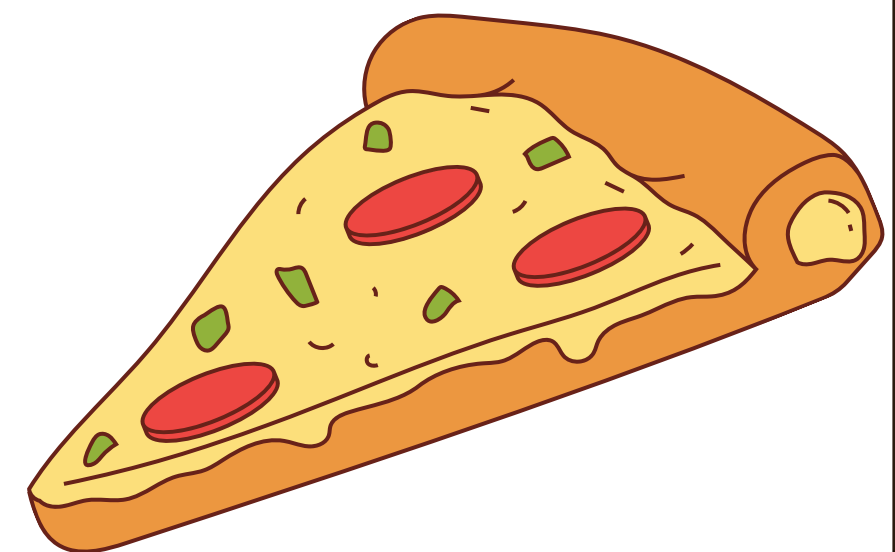
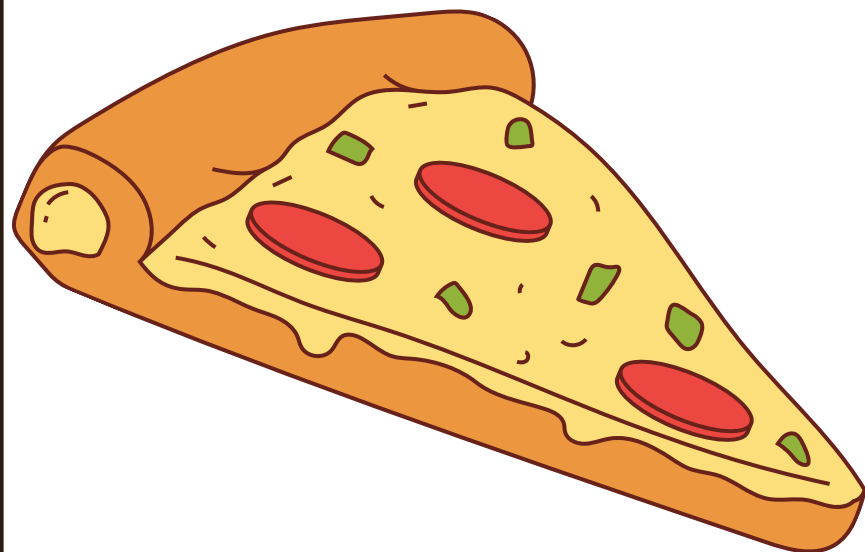


SQL PROJECT ON PIZZA SALES



INTRODUCTION

**Hi, I'm Mohammad Aadil. In this project,
I employed SQL queries to analyze
various aspects of pizza sales and
derive actionable insights.**

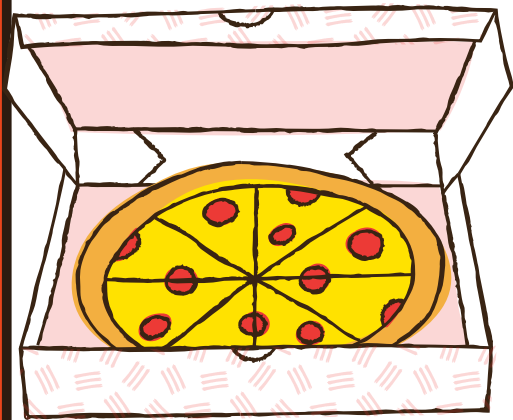


Project Introduction

This project involves analyzing pizza sales data from a database containing four tables: pizzas, pizza_type, orders, and order_details.

Using MySQL, I performed a series of SQL queries to explore and address various questions about pizza sales.

Retrieve the total number of orders placed.



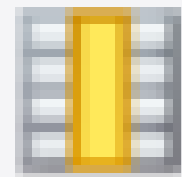
SELECT

COUNT(DISTINCT order_id) AS total_orders

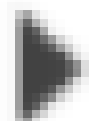
FROM

orders;

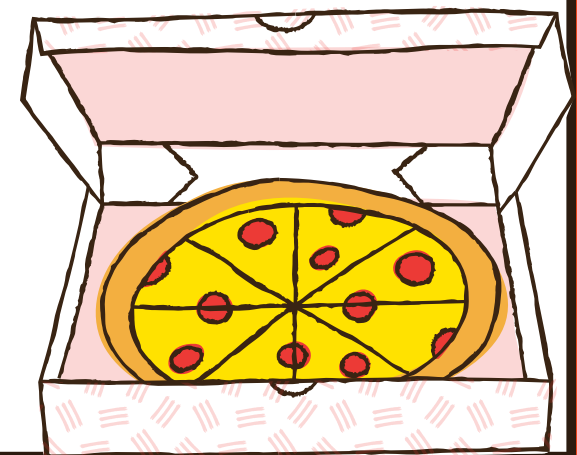
Result Grid



total_orders



21350



Calculate the total revenue generated from pizza sales.

SELECT

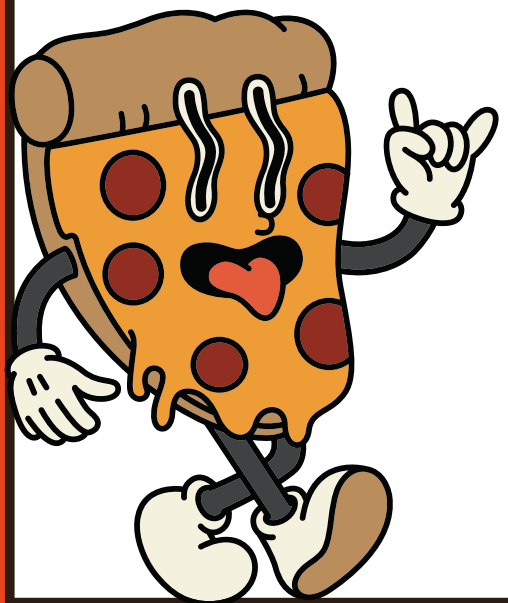
```
ROUND(SUM(order_details.quantity * pizzas.price),  
2) AS Total_revenue
```

FROM

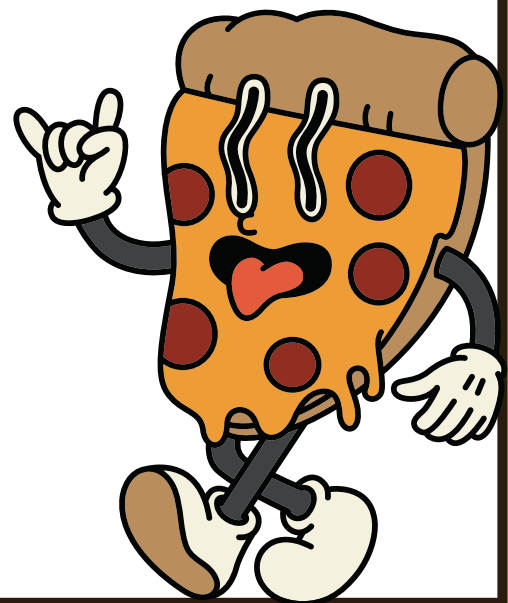
pizzas

JOIN

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



Result Grid	
	Total_revenue
▶	817860.05



Identify the highest-priced pizza.

SELECT

`pizza_types.name, pizzas.price`

FROM

`pizza_types`

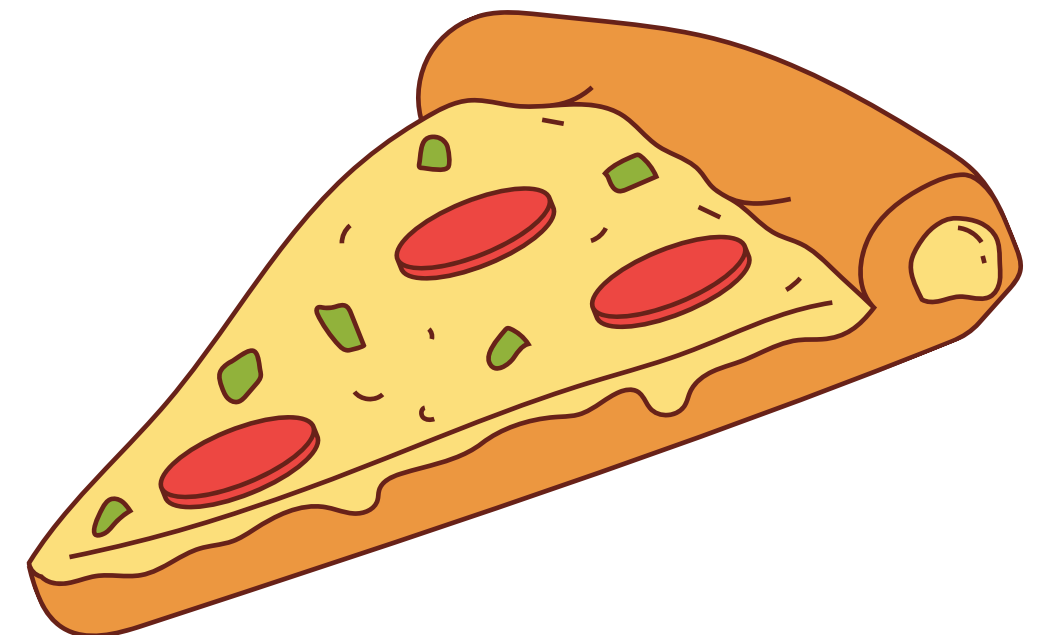
JOIN

`pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id`

ORDER BY `pizzas.price` **DESC**

LIMIT `1`;

	name	price
▶	The Greek Pizza	35.95



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 order_details.pizza_id = pizzas.pizza_id
GROUP BY pizzas.size
ORDER BY order_count DESC
LIMIT 1;
```



	size	order_count
▶	L	18526

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

SELECT

`pizza_types.name, SUM(order_details.quantity) AS quantity`

FROM

`pizzas`

JOIN

`pizza_types 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 `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

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**;

category	quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

Determine the distribution of orders by hour of the day.

```
SELECT
```

```
    HOUR(order_time) AS hour, COUNT(order_id) AS order_count
```

```
FROM
```

```
    orders
```

```
GROUP BY HOUR(order_time);
```

Pizza

TIME

hour	order_count
11	1231
12	2520
13	2455
14	1472
15	1468
16	1920
17	2336
18	2399

Find the category-wise distribution of pizzas.

```
select category, count(category) from pizza_types group by category;
```

category	count(category)
Chicken	6
Classic	8
Supreme	9
Veggie	9



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

```
with yummy as
(
  SELECT
    orders.order_date,
    SUM(order_details.quantity) AS order_quantity
  FROM
    orders
    JOIN
    order_details ON orders.order_id = order_details.order_id
  GROUP BY orders.order_date)
select round(avg(order_quantity)) avg_pizza_order_per_day from yummy;
```



avg_pizza_order_per_day
138

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 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 revenue DESC
LIMIT 3;
```

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_revenue
    FROM
        pizzas
        JOIN
            order_details ON order_details.pizza_id = pizzas.pizza_id)) * 100,2) 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
ORDER BY revenue DESC;
```

category	revenue
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68

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 ON orders.order_id = order_details.order_id
GROUP BY order_date) as sales;
```

order_date	cum_revenue
2015-01-01	2713.85000000000004
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	23990.3500000000002
2015-01-11	25862.65
2015-01-12	27781.7

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 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) as b
where rn <= 3;
```

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	32265.700
The Mexicana Pizza	26780.75
The Five Cheese Pizza	26066.5

PIZZA PARTY!

