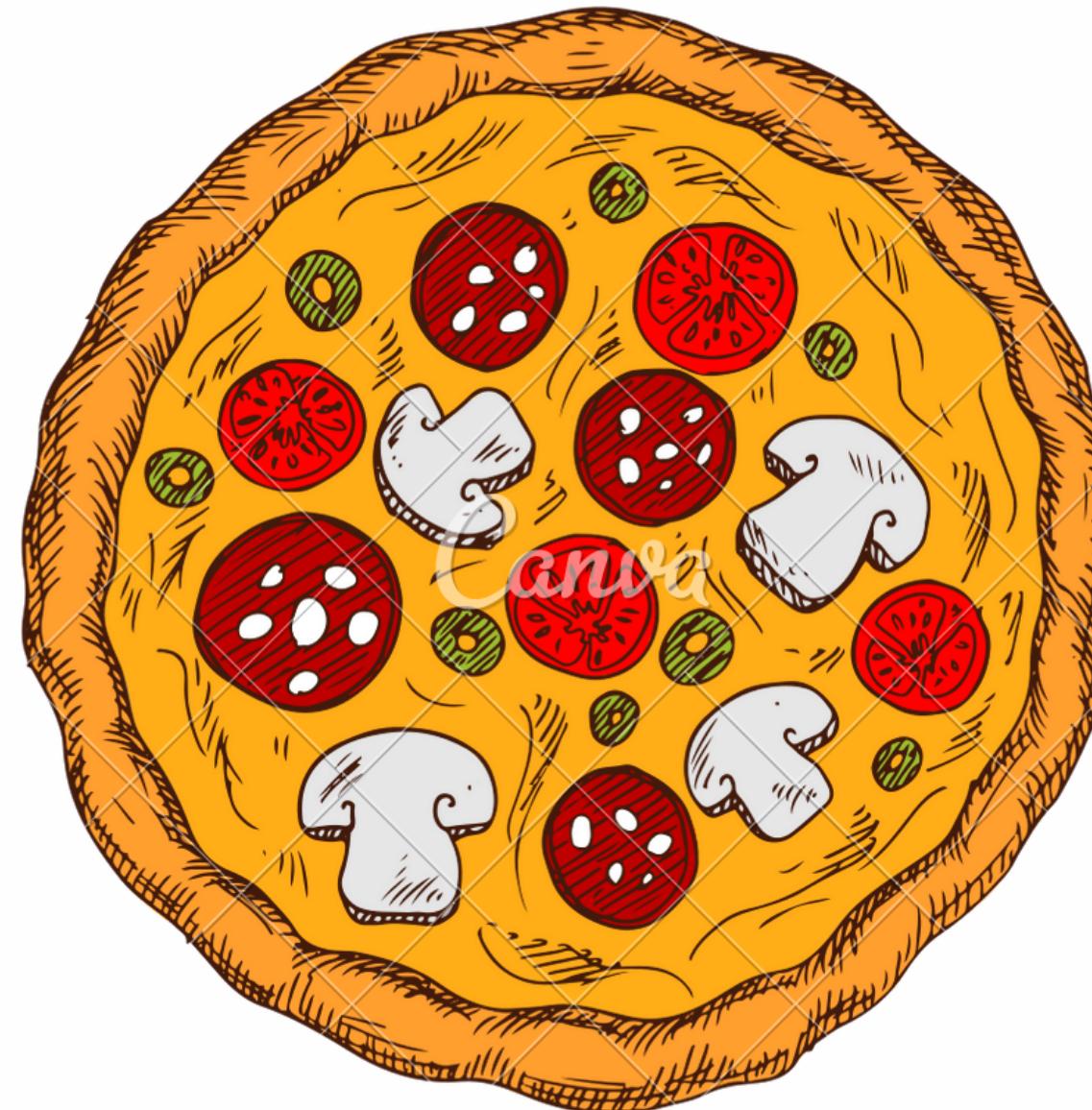


# SliceDB: The PizzaHub Database



PIZZA'  
HUB

A SQL PROJECT FOR DATA ANALYSIS

# Hello!

The Pizza Store Database Management System is designed to streamline operations and enhance efficiency for a fictional pizza store. By leveraging SQL, this project aims to provide a robust solution for managing various aspects of the pizza business, including orders, inventory, customer information, and delivery logistics.

# Retrieve the total number of orders placed.

```
SELECT  
    COUNT(order_id) AS total_orders  
FROM  
    orders;
```

RESULT

	count(order_id)
▶	21350

# Calculate the total revenue generated from pizza sales.

SELECT

```
ROUND(SUM(orders_details.quantity * pizzas.price),  
2) AS Total_Revenue
```

FROM

```
orders_details
```

JOIN

```
pizzas ON pizzas.pizza_id = orders_details.pizza_id
```

RESULT

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;
```

## RESULT

	name	price
▶	The Greek Pizza	35.95

# Identify the most common pizza size ordered.

```
SELECT  
    pizzas.size,  
    COUNT(orders_details.order_details_id) AS order_count  
FROM  
    pizzas  
        JOIN  
    orders_details ON pizzas.pizza_id = orders_details.pizza_id  
GROUP BY pizzas.size  
ORDER BY order_count DESC;
```

RESULT

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 AS pizza_type,  
    SUM(orders_details.quantity) AS total_quantity  
FROM  
    pizza_types  
        JOIN  
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id  
        JOIN  
    orders_details ON orders_details.pizza_id = pizzas.pizza_id  
GROUP BY pizza_types.name  
ORDER BY total_quantity DESC  
LIMIT 5;
```

RESULT

pizza_type	total_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(orders_details.quantity) AS total_quantity  
FROM  
    pizza_types  
        JOIN  
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id  
        JOIN  
    orders_details ON orders_details.pizza_id = pizzas.pizza_id  
GROUP BY pizza_types.category  
ORDER BY total_quantity DESC;
```

RESULT

category	total_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);
```

RESULT

Hour	order_count
11	1231
12	2520
13	2455
14	1472
15	1468
16	1920
17	2336

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

```
SELECT  
    category, COUNT(name)  
FROM  
    pizza_types  
GROUP BY category;
```

RESULT

category	COUNT(name)
Chicken	6
Classic	8
Supreme	9
Veggie	9

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

SELECT

```
ROUND(AVG(quantity), 0) AS Avg_Pizza_ordered_perday
```

FROM

```
(SELECT
```

```
    orders.order_date, SUM(orders_details.quantity) AS quantity
```

```
FROM
```

```
    orders
```

```
JOIN orders_details ON orders.order_id = orders_details.order_id
```

```
GROUP BY orders.order_date) AS order_quantity;
```

RESULT

Avg_Pizza_ordered_perday
138

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

```
SELECT  
    pizza_types.name,  
    SUM(orders_details.quantity * pizzas.price) AS revenue  
FROM  
    pizza_types  
        JOIN  
    pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id  
        JOIN  
    orders_details ON orders_details.pizza_id = pizzas.pizza_id  
GROUP BY pizza_types.name  
ORDER BY revenue DESC  
LIMIT 3
```

## RESULT

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(orders_details.quantity * pizzas.price) / (SELECT  
    ROUND(SUM(orders_details.quantity * pizzas.price),  
        2) AS total_sales  
FROM  
    orders_details  
    JOIN  
    pizzas ON pizzas.pizza_id = orders_details.pizza_id) * 100,  
2) AS revenue
```

FROM

```
pizza_types  
    JOIN  
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id  
    JOIN
```

```
orders_details ON orders_details.pizza_id = pizzas.pizza_id
```

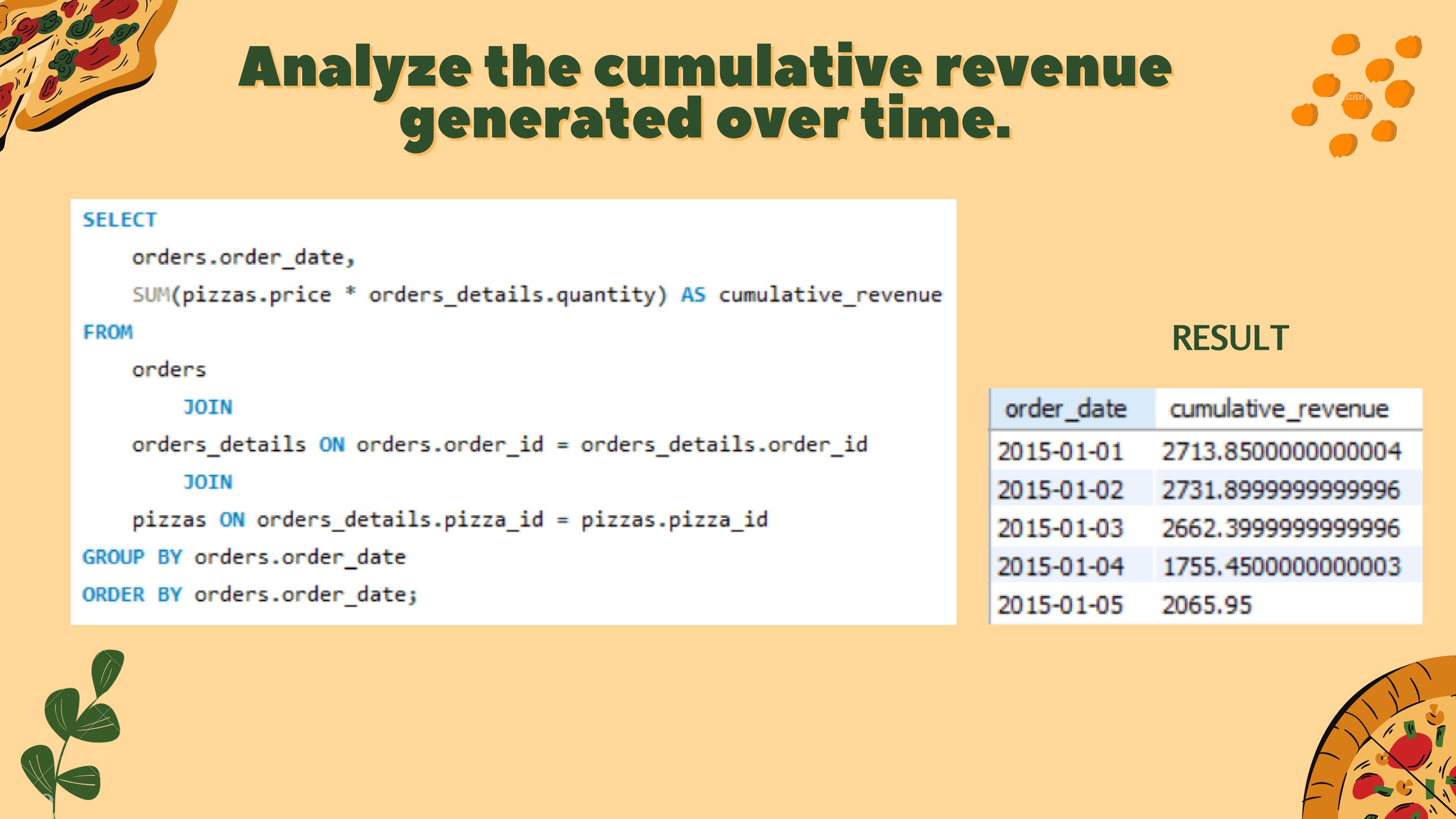
GROUP BY Pizza\_types.category

ORDER BY revenue DESC;

RESULT

category	revenue
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68





# Analyze the cumulative revenue generated over time.

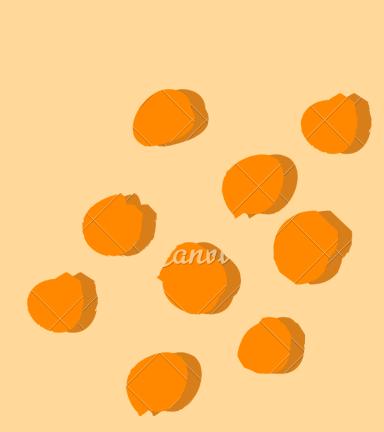
```
SELECT  
    orders.order_date,  
    SUM(pizzas.price * orders_details.quantity) AS cumulative_revenue  
FROM  
    orders  
        JOIN  
    orders_details ON orders.order_id = orders_details.order_id  
        JOIN  
    pizzas ON orders_details.pizza_id = pizzas.pizza_id  
GROUP BY orders.order_date  
ORDER BY orders.order_date;
```

RESULT

order_date	cumulative_revenue
2015-01-01	2713.850000000004
2015-01-02	2731.899999999996
2015-01-03	2662.399999999996
2015-01-04	1755.450000000003
2015-01-05	2065.95



# Analyze the cumulative revenue generated over time.



```
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(orders_details.quantity * pizzas.price) AS revenue  
        FROM  
            pizza_types  
        JOIN  
            pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id  
        JOIN  
            orders_details ON orders_details.pizza_id = pizzas.pizza_id  
        GROUP BY  
            pizza_types.category,  
            pizza_types.name) AS a) AS b WHERE rn <= 3;
```

## RESULT

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



**THANK  
YOU  
MUJAHID  
KHAN**

