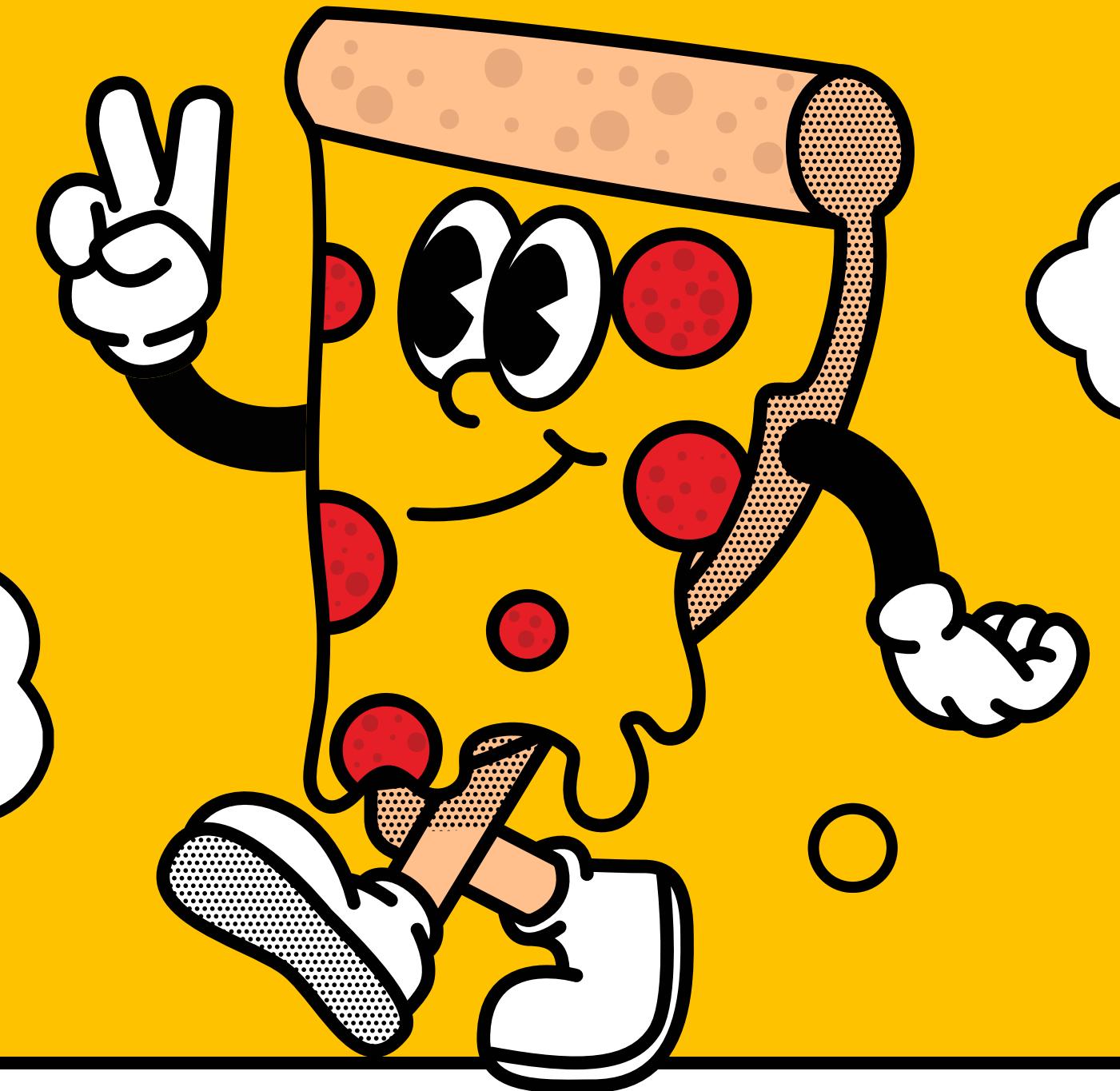


SQL PROJECT

PIZZA

SOLV



HELLO

HELLO EVERYONE,

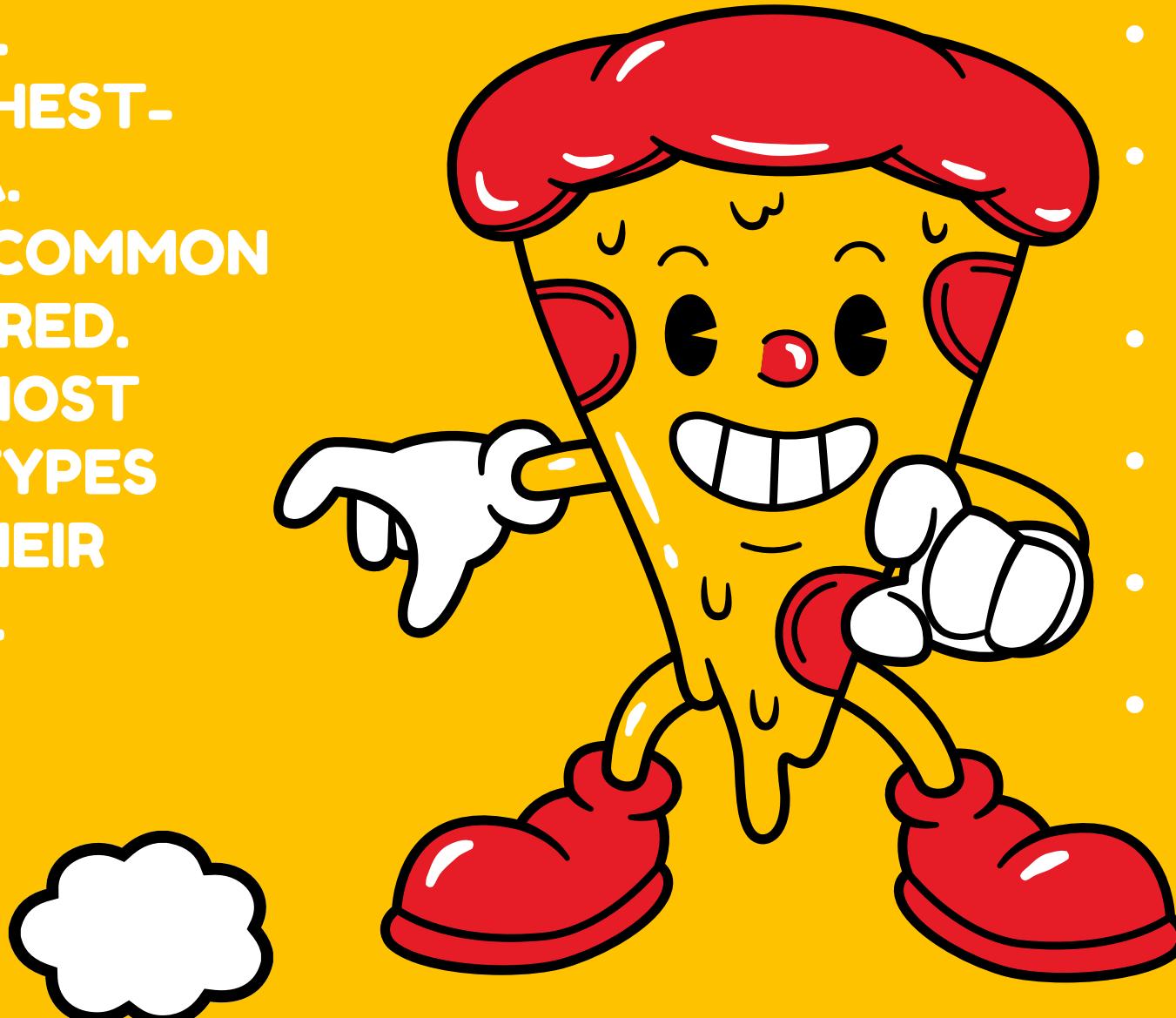
My name is Sana.
Today I will be presenting
my SQL-based Pizza Sales
Analysis project.
In this project, I utilized SQL
queries to answer various
analytical questions related
to pizza sales data

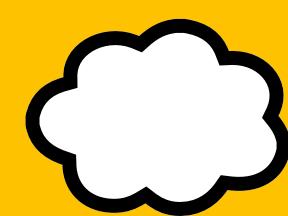
THIS PROJECT HELPED ME UNDERSTAND
HOW SQL CAN BE USED IN REAL-WORLD
SCENARIOS TO SUPPORT DATA-DRIVEN
DECISION MAKING.



ANALYTICAL QUESTIONS

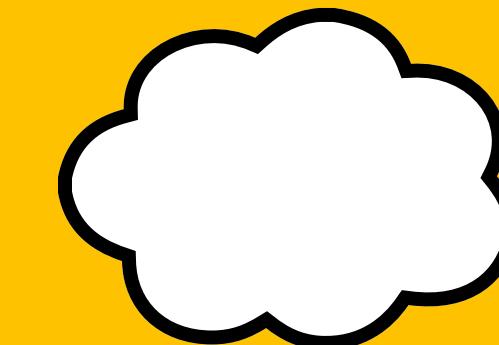
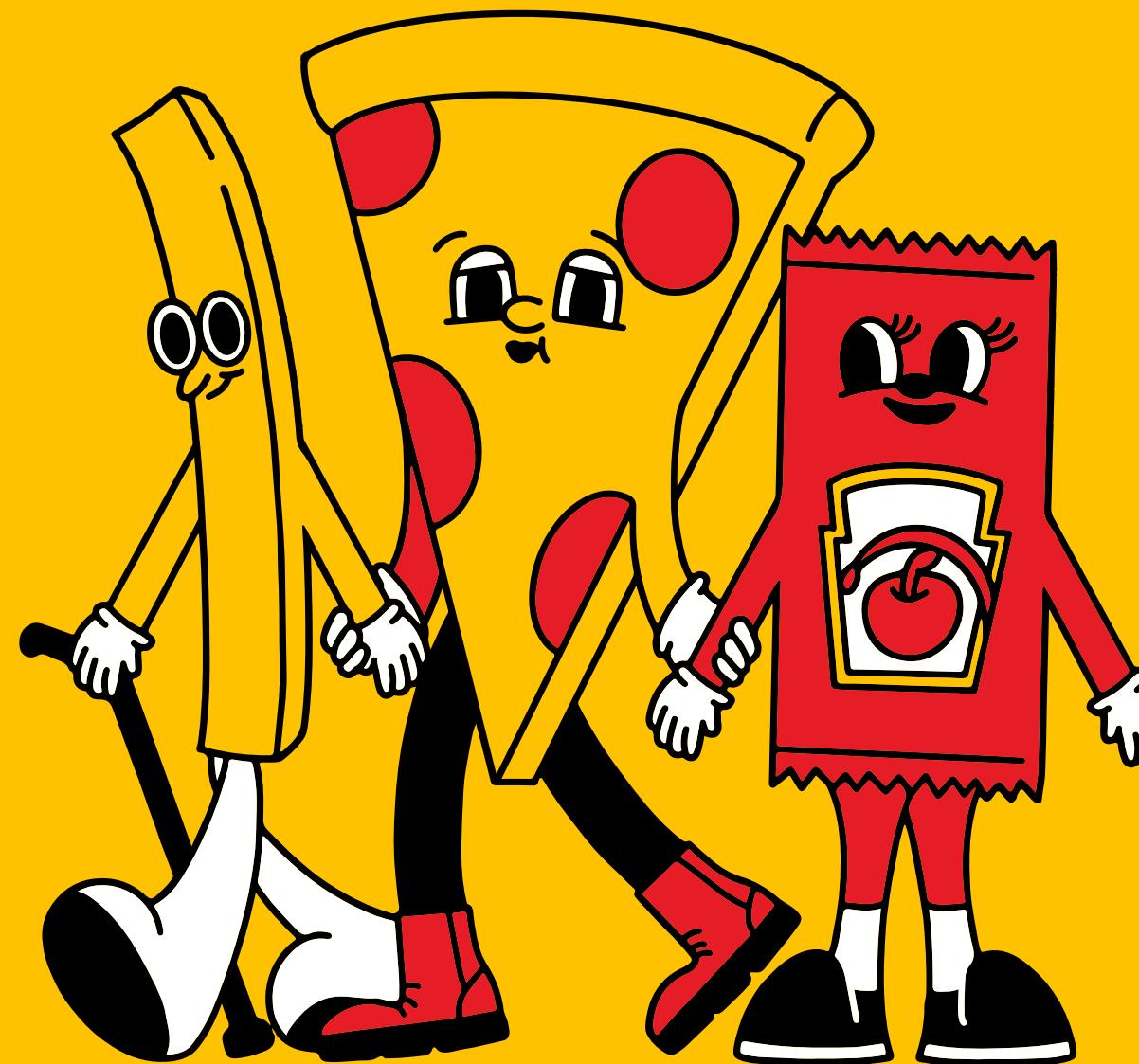
- RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.
- CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.
- IDENTIFY THE HIGHEST-PRICED PIZZA.
- IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.
- LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES.
- JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED.
- DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.
- JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS
- GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.
- DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.
- CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.
- ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.
- DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY.





RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

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



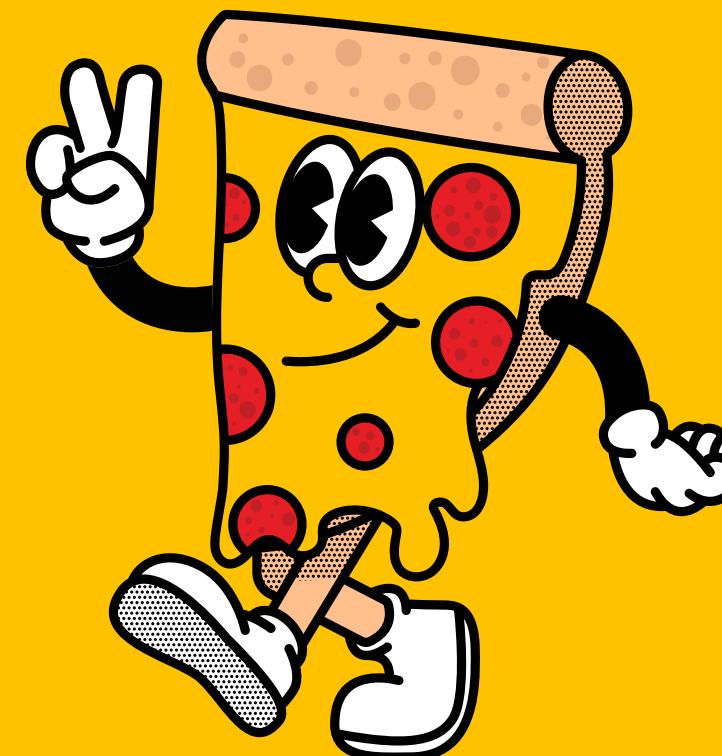
Result Grid | Filter R

| | total_orders |
|---|--------------|
| ▶ | 21350 |

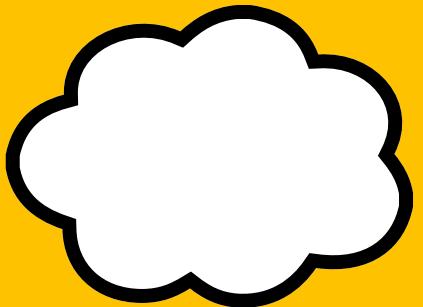
CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

- **SELECT**

```
    SUM(order_details.quantity * pizzas.price) AS total_sales  
FROM  
    order_details  
    JOIN  
    pizzas ON pizzas.pizza_id = order_details.Pizza_id
```

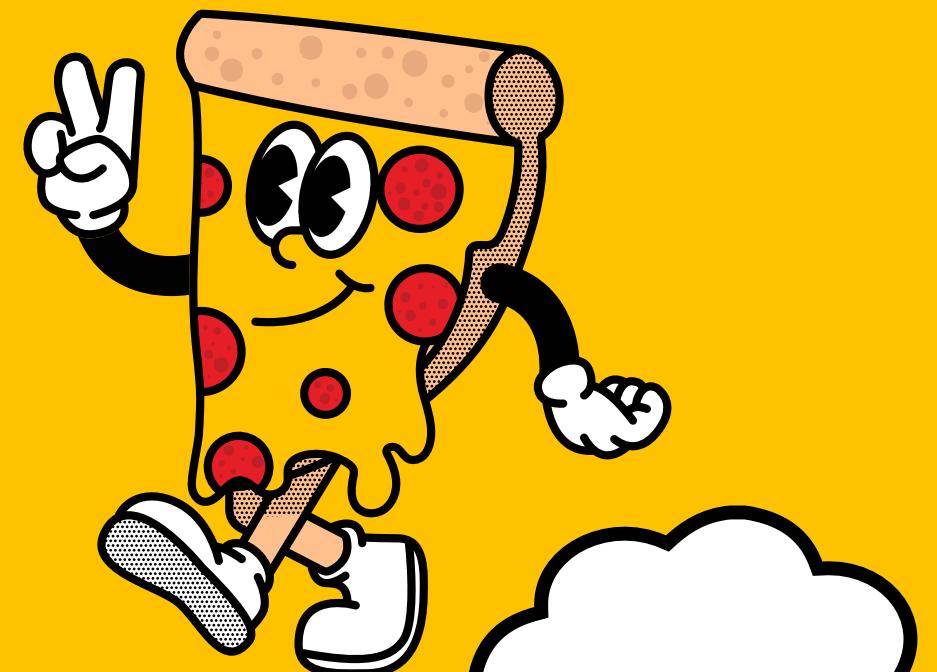


| Result Grid | |
|-------------|-------------|
| | total_sales |
| ▶ | 817860.05 |



IDENTIFY THE HIGHEST-PRICED PIZZA.

```
3 • SELECT
4     pizza_types.name, pizzas.price
5 FROM
6     pizza_types
7     JOIN
8     pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
9 ORDER BY pizzas.price DESC
0 LIMIT 1;
```



Result Grid | Filter Rows:

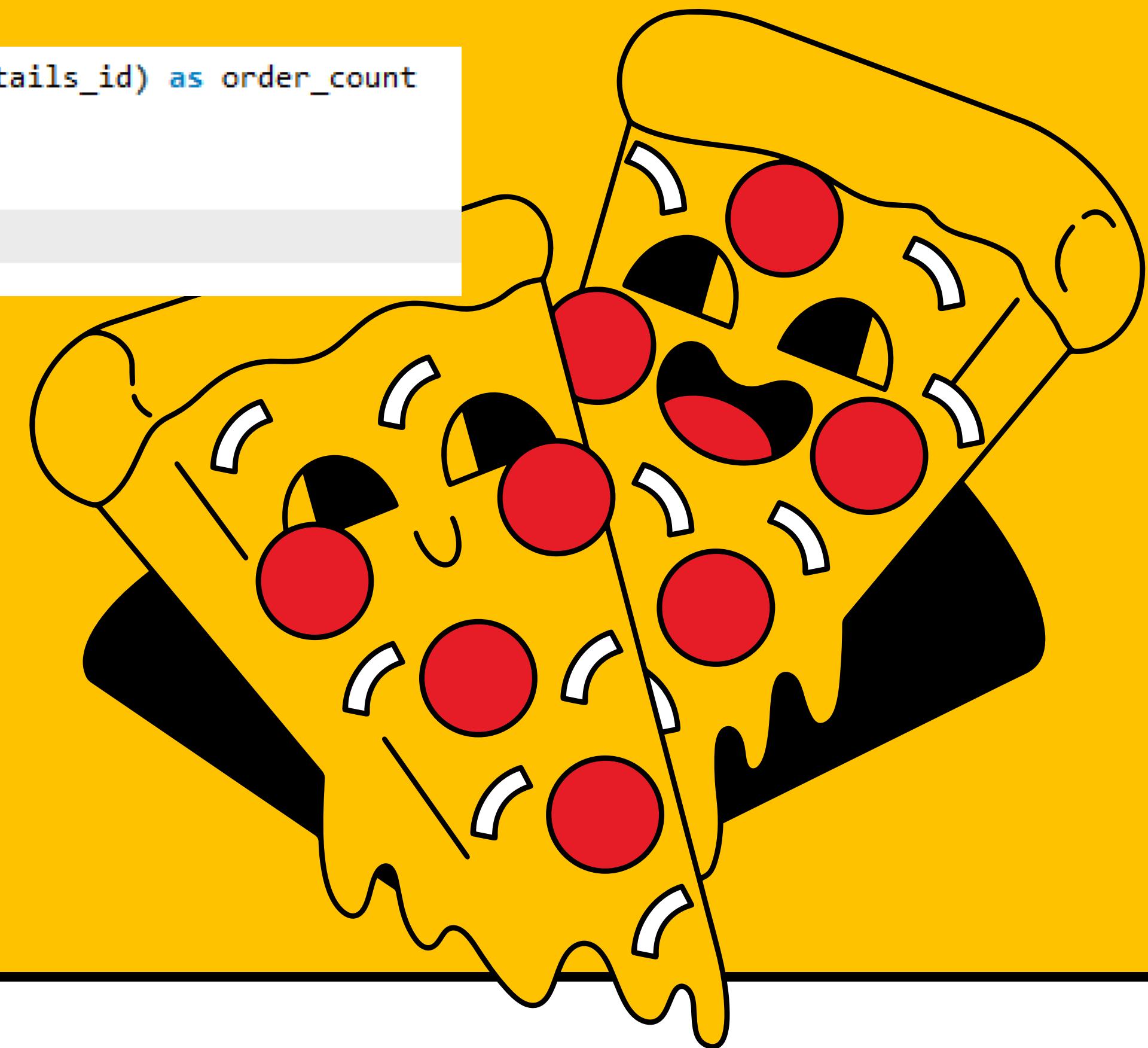
| | name | price |
|---|-----------------|-------|
| ▶ | The Greek Pizza | 35.95 |

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 pizzas.pizza_id = order_details.Pizza_id
group by size order by order_count desc;
```

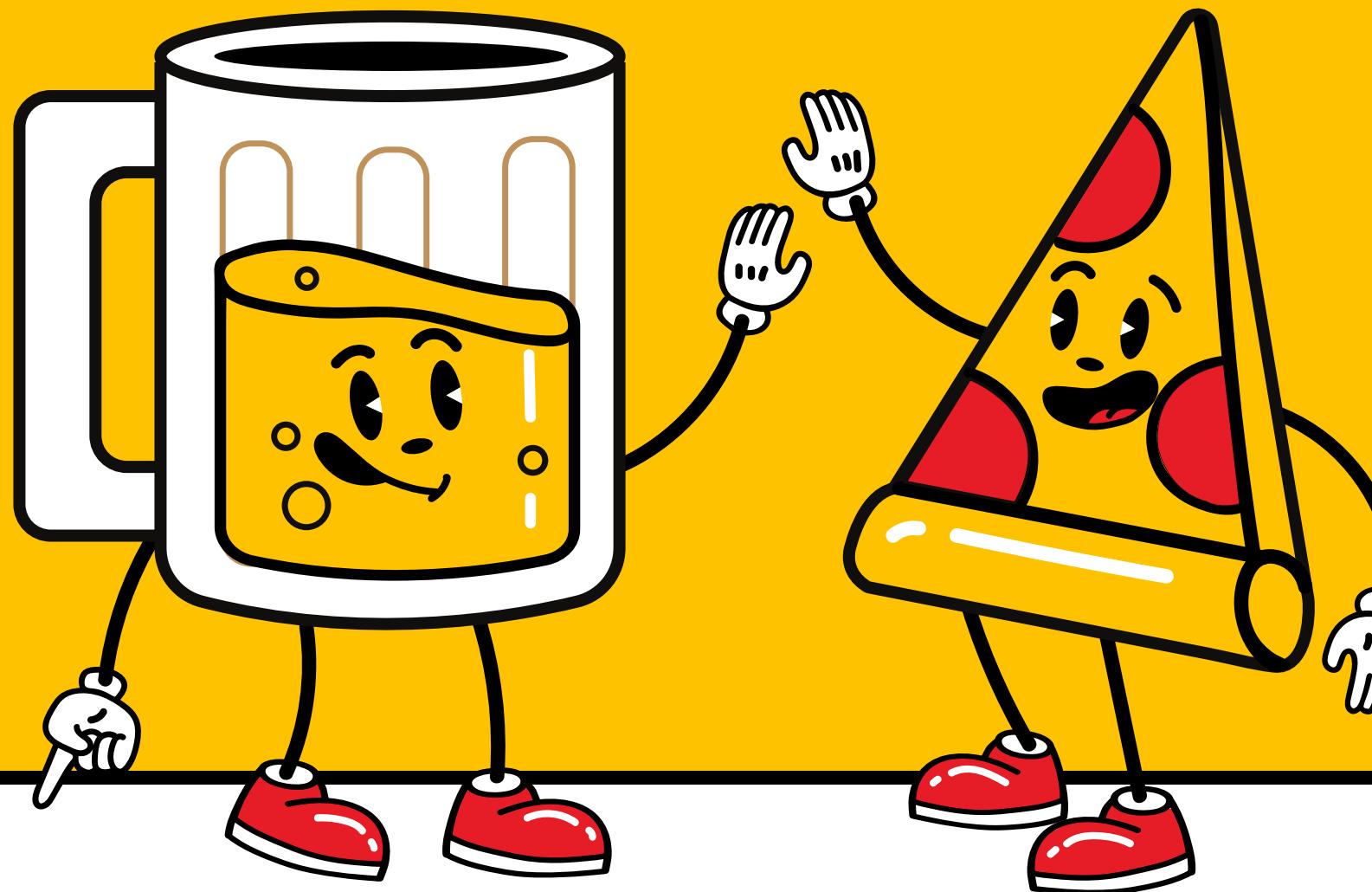
Result Grid | Filter Row

|   | 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 order_details
    on order_details.Pizza_id = pizzas.pizza_id
 GROUP BY pizza_types.name order by quantity desc limit 5;
```

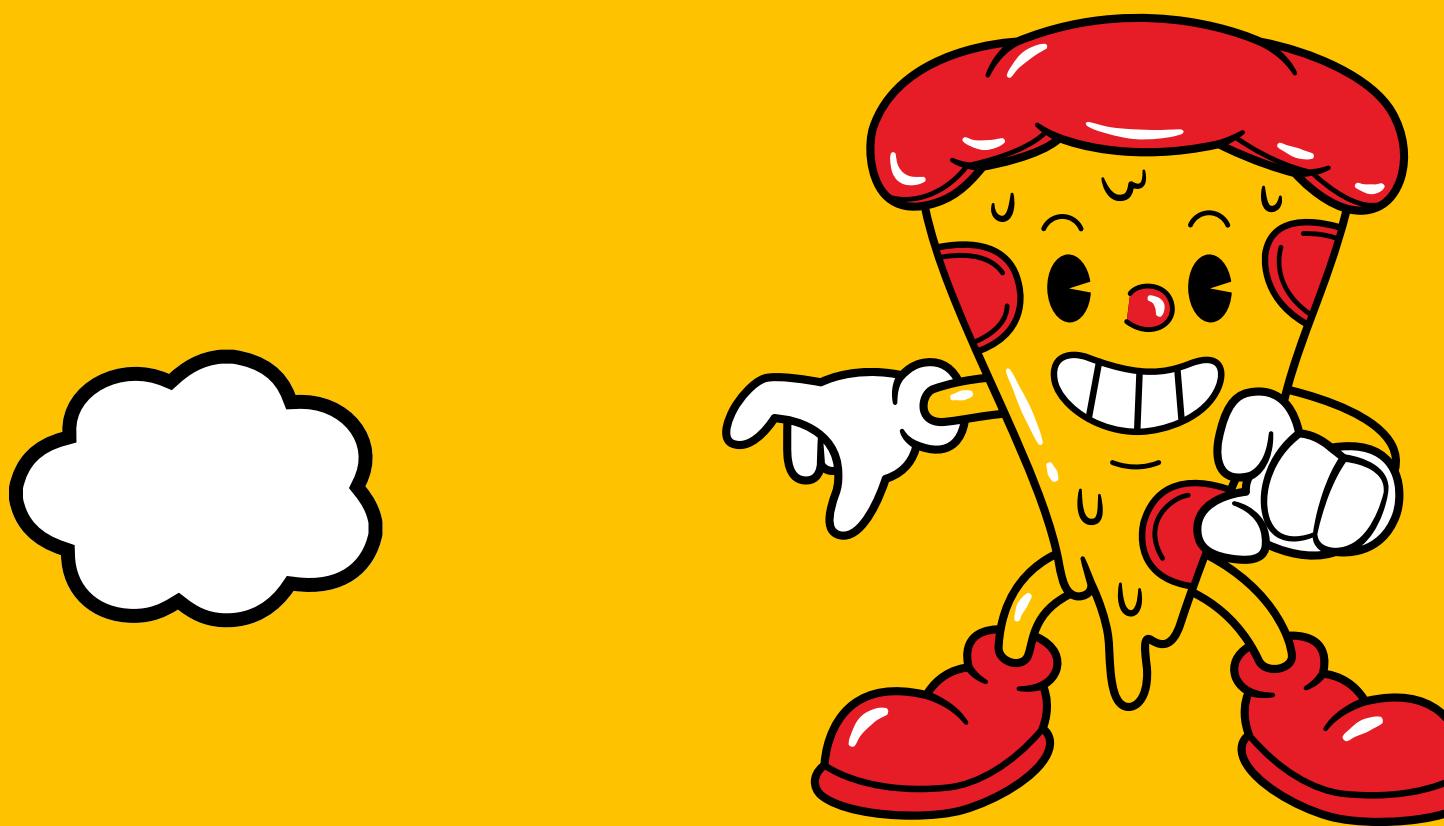


Result Grid | Filter Rows:

| | 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 |

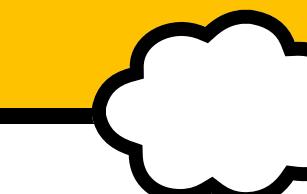
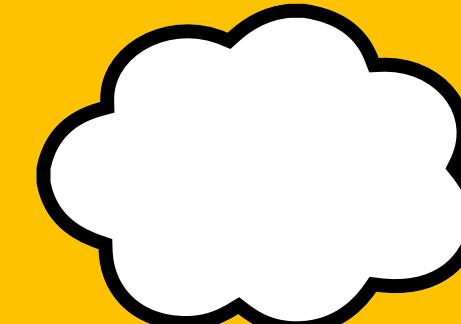
JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED.

- ```
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;
```

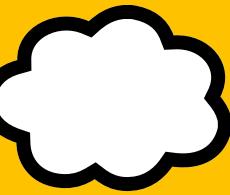


Result Grid | Filter R

|   | category | quantity |
|---|----------|----------|
| ▶ | Classic  | 14888    |
|   | Supreme  | 11987    |
|   | Veggie   | 11649    |
|   | Chicken  | 11050    |

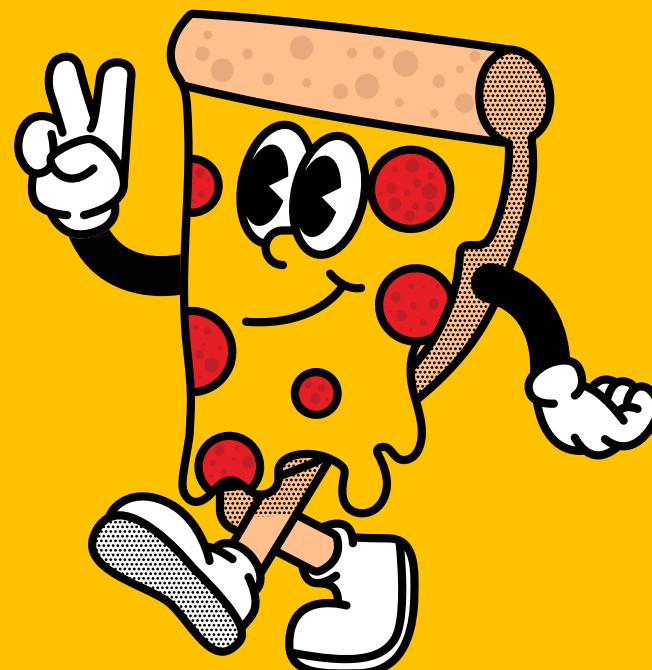


# DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.



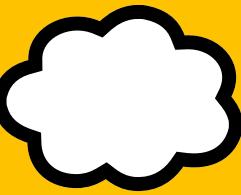
- **select**

```
hour(order_time) as hour, count(order_id) as order_count
from
orders
group by hour(order_time);
```

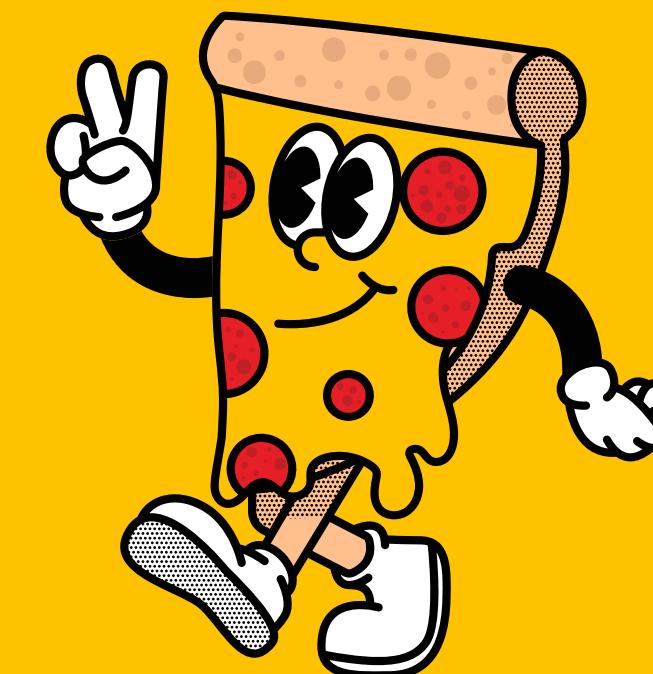


|   | hour | order_count |
|---|------|-------------|
| ▶ | 11   | 1231        |
|   | 12   | 2520        |
|   | 13   | 2455        |
|   | 14   | 1472        |
|   | 15   | 1468        |
|   | 16   | 1920        |
|   | 17   | 2336        |
|   | 18   | 2399        |
|   | 19   | 2009        |
|   | 20   | 1642        |
|   | 21   | 1198        |
|   | 22   | 663         |
|   | 23   | 28          |

# JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS.

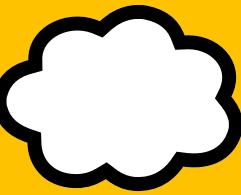


- ```
select category, count(name) from pizza_types  
group by category;
```



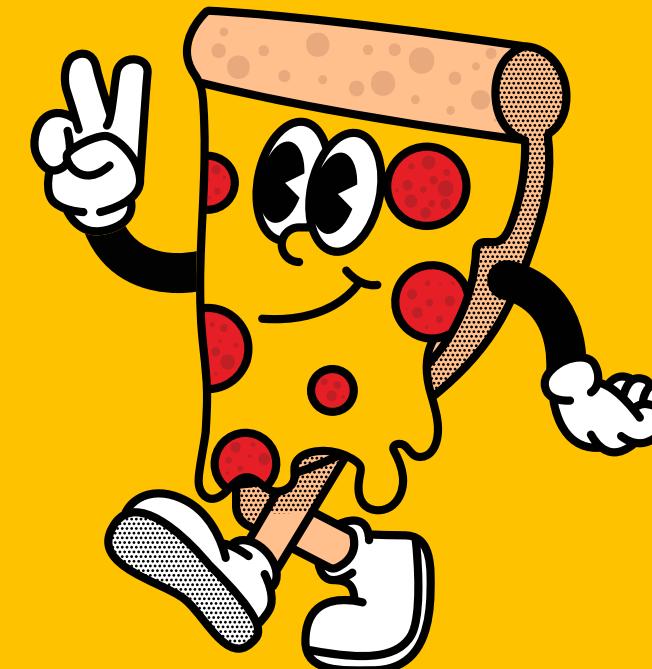
| | category | count(name) |
|---|----------|-------------|
| ▶ | Chicken | 6 |
| | Classic | 8 |
| | Supreme | 9 |
| | Veggie | 9 |

GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.



- **SELECT**

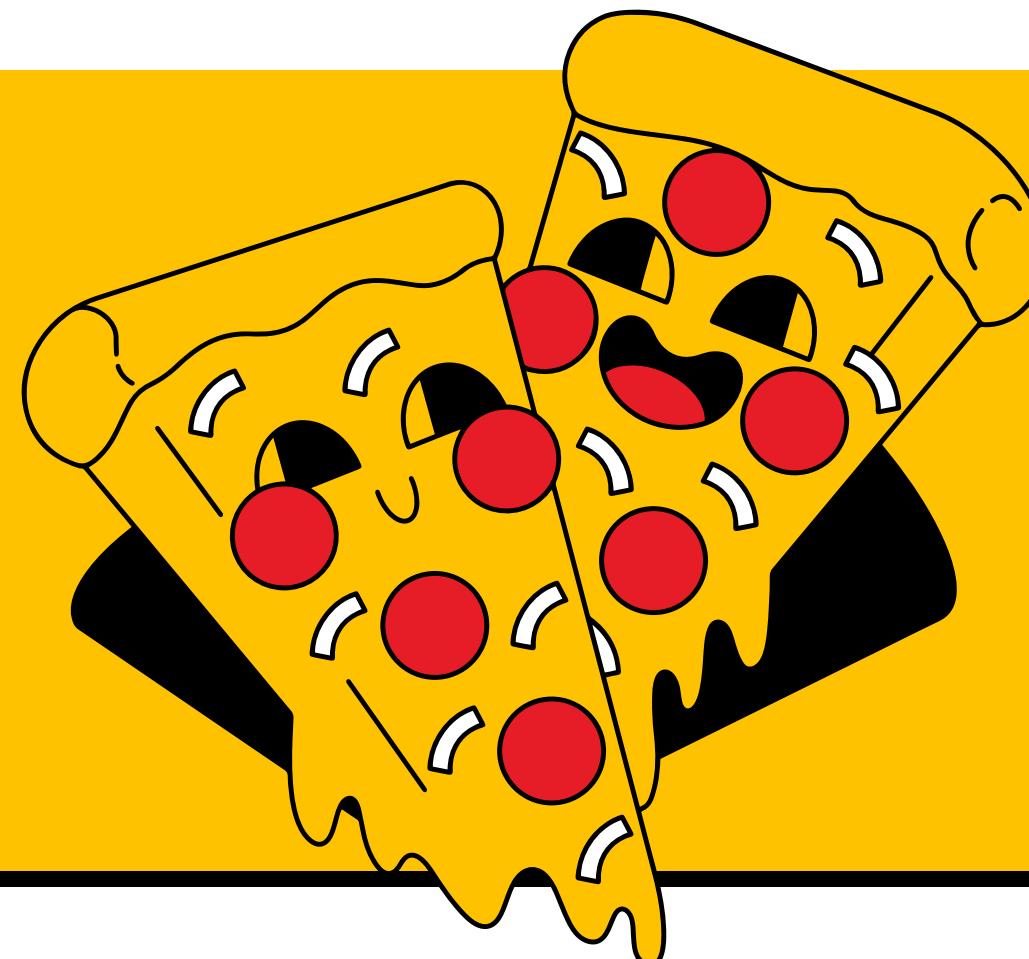
```
ROUND(AVG(quantity), 0) avg_pizza_ordered_per_day  
FROM  
(SELECT |  
    orders.order_date, SUM(order_details.quantity) AS quantity  
FROM  
    orders  
JOIN order_details ON orders.Order_id = order_details.Order_id  
GROUP BY orders.order_date) AS order_quantity;
```



| Result Grid | |
|-------------|------------------------|
| | round(avg(quantity),0) |
| ▶ | 138 |

DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.

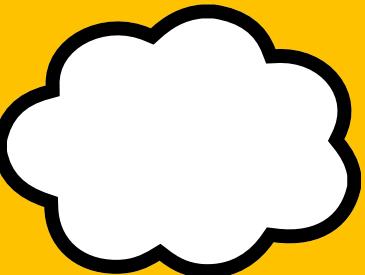
```
3 • select pizza_types.name,  
4   sum(order_details.quantity * pizzas.price) as revenue  
5   from pizza_types join pizzas  
6   on pizza_types.pizza_type_id = pizzas.pizza_type_id  
7   join order_details  
8   on order_details.Pizza_id = pizzas.pizza_id  
9   group by pizza_types.name order by revenue desc limit 3;
```



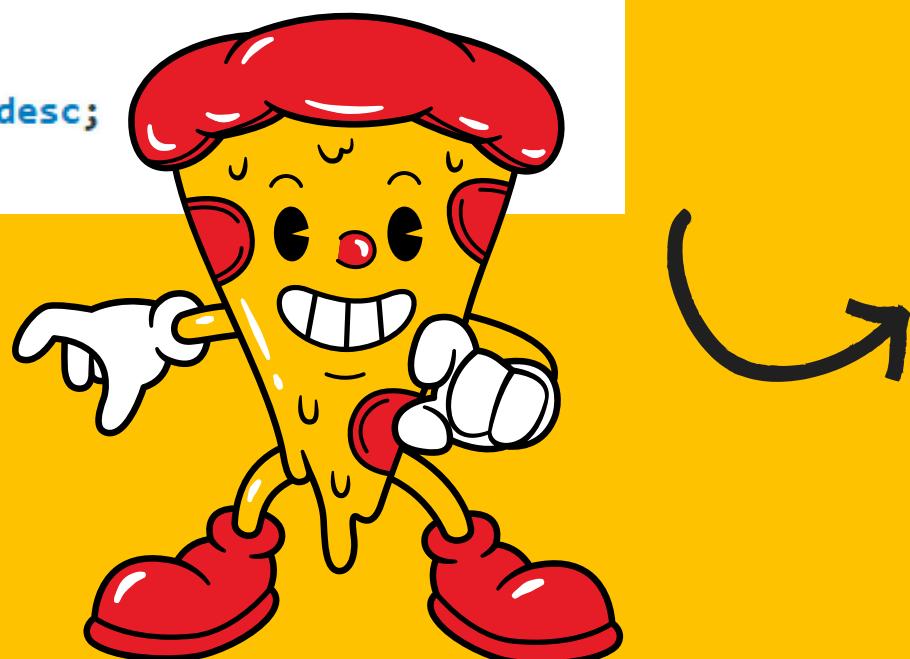
Result Grid | Filter Rows:

| | name | revenue |
|---|------------------------------|----------|
| ▶ | The Thai Chicken Pizza | 43434.25 |
| ▶ | The Barbecue Chicken Pizza | 42768.00 |
| ▶ | The California Chicken Pizza | 41409.50 |

CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.



```
3 • select pizza_types.category,  
4   round(sum(order_details.quantity*pizzas.price) / (SELECT  
5     round(SUM(order_details.quantity * pizzas.price),2) AS total_sales  
6   FROM  
7     order_details  
8     JOIN  
9       pizzas ON pizzas.pizza_id = order_details.Pizza_id) *100,2) as revenue  
10  from pizza_types join pizzas  
11  on pizza_types.pizza_type_id = pizzas.pizza_type_id  
12  join order_details  
13  on order_details.Pizza_id = pizzas.pizza_id  
14  group by pizza_types.category order by revenue desc;  
15
```

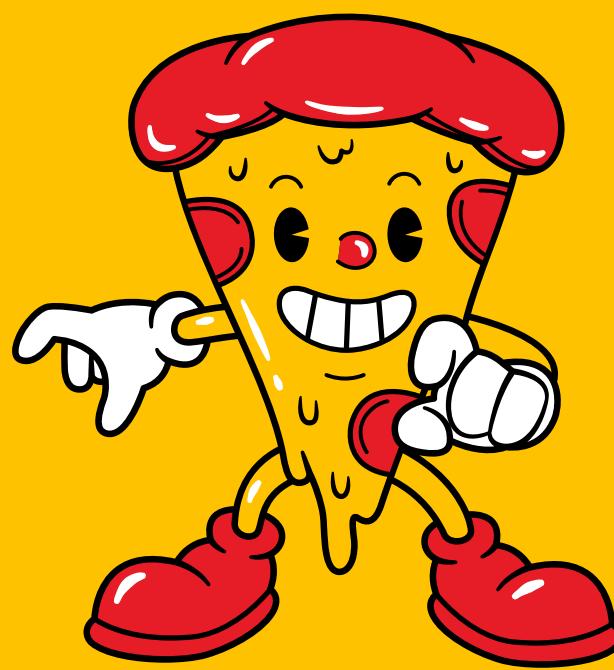


Result Grid | Filter Rows:

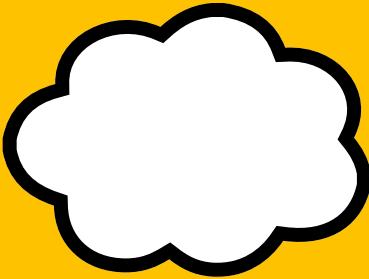
| | category | revenue |
|---|----------|---------|
| ▶ | Classic | 26.91 |
| | Supreme | 25.46 |
| | Chicken | 23.96 |
| | Veggie | 23.68 |

ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

- ```
select orders.order_date,
 sum(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 orders.order_date;
```

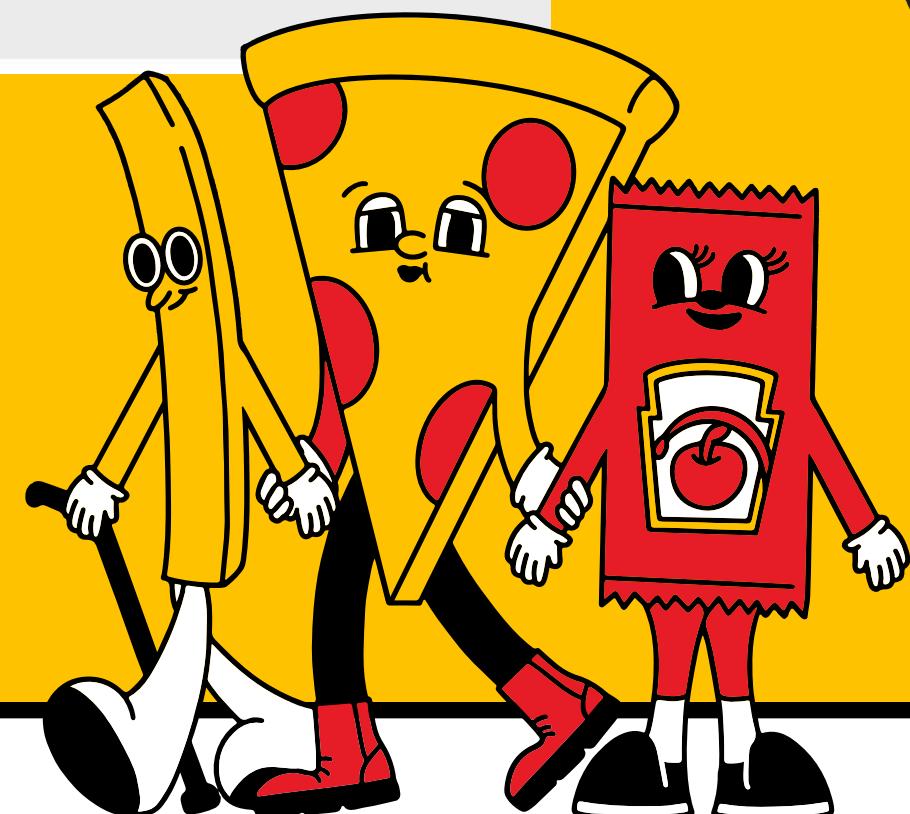


|  | order_date | cum_revenue |
|--|------------|-------------|
|  | 2015-01-04 | 9863.60     |
|  | 2015-01-05 | 11929.55    |
|  | 2015-01-06 | 14358.50    |
|  | 2015-01-07 | 16560.70    |
|  | 2015-01-08 | 19399.05    |
|  | 2015-01-09 | 21526.40    |
|  | 2015-01-10 | 23990.35    |
|  | 2015-01-11 | 25862.65    |
|  | 2015-01-12 | 27781.70    |
|  | 2015-01-13 | 29831.30    |
|  | 2015-01-14 | 32358.70    |
|  | 2015-01-15 | 34343.50    |
|  | 2015-01-16 | 36937.65    |
|  | 2015-01-17 | 39001.75    |
|  | 2015-01-18 | 40978.60    |
|  | 2015-01-19 | 43365.75    |
|  | 2015-01-20 | 45763.65    |
|  | 2015-01-21 | 47804.20    |
|  | 2015-01-22 | 50300.00    |



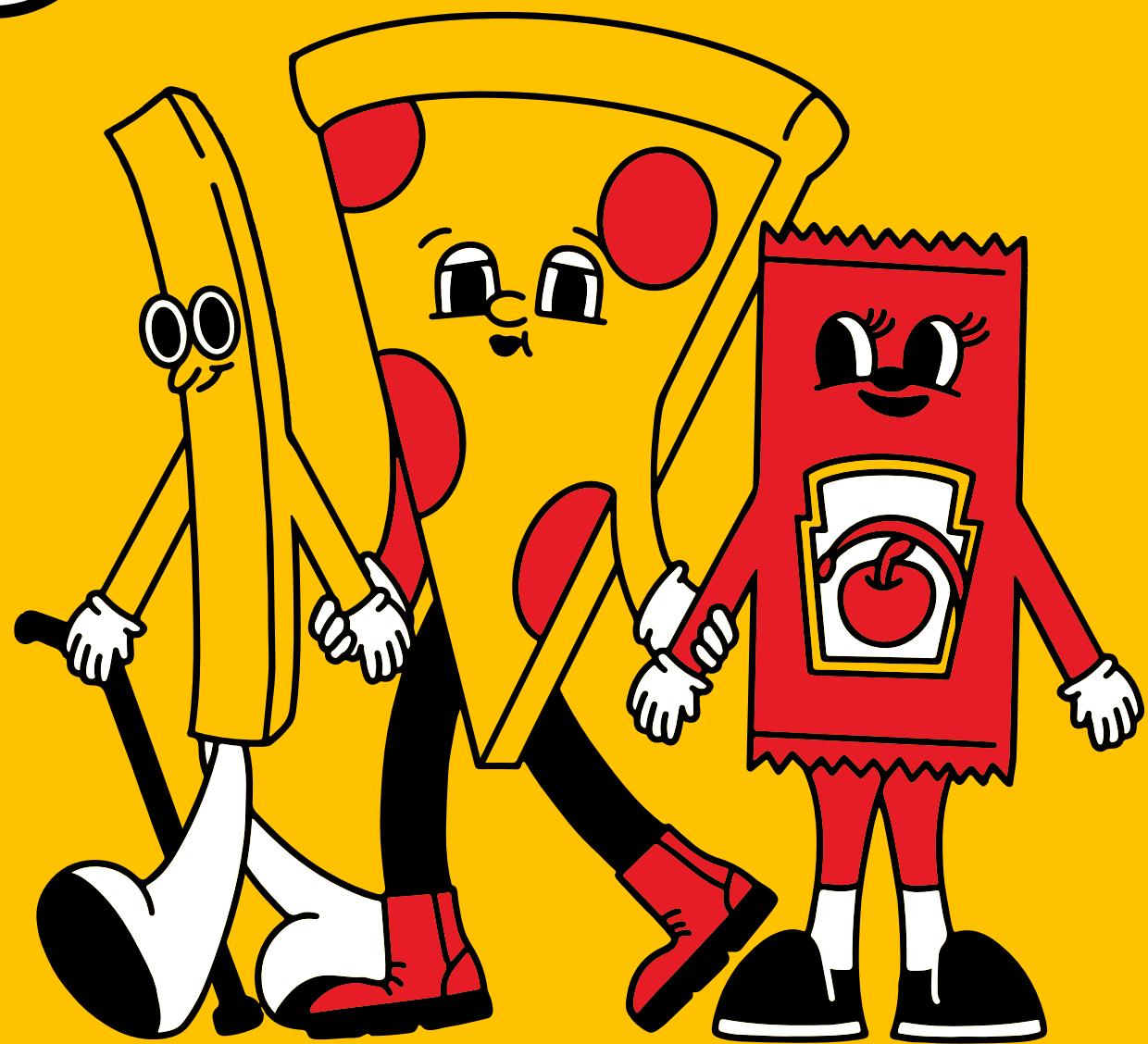
# DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY.

```
• 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   | 42768.00 |
|   | The California Chicken Pizza | 41409.50 |
|   | The Classic Deluxe Pizza     | 38180.50 |
|   | 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           | 30940.50 |
|   | The Four Cheese Pizza        | 32265.70 |
|   | The Mexicana Pizza           | 26780.75 |
|   | The Five Cheese Pizza        | 26066.50 |

# THANK YOU FOR YOUR TIME!!



IN THIS PROJECT, I ANALYZED PIZZA SALES DATA USING SQL TO ANSWER KEY BUSINESS QUESTIONS.

BY APPLYING CONCEPTS SUCH AS JOINS, AGGREGATE FUNCTIONS, GROUPING, I WAS ABLE TO EXTRACT MEANINGFUL INSIGHTS FROM THE DATASET.

THIS PROJECT STRENGTHENED MY UNDERSTANDING OF SQL AND DEMONSTRATED HOW DATA ANALYSIS CAN SUPPORT REAL-WORLD BUSINESS DECISION-MAKING.