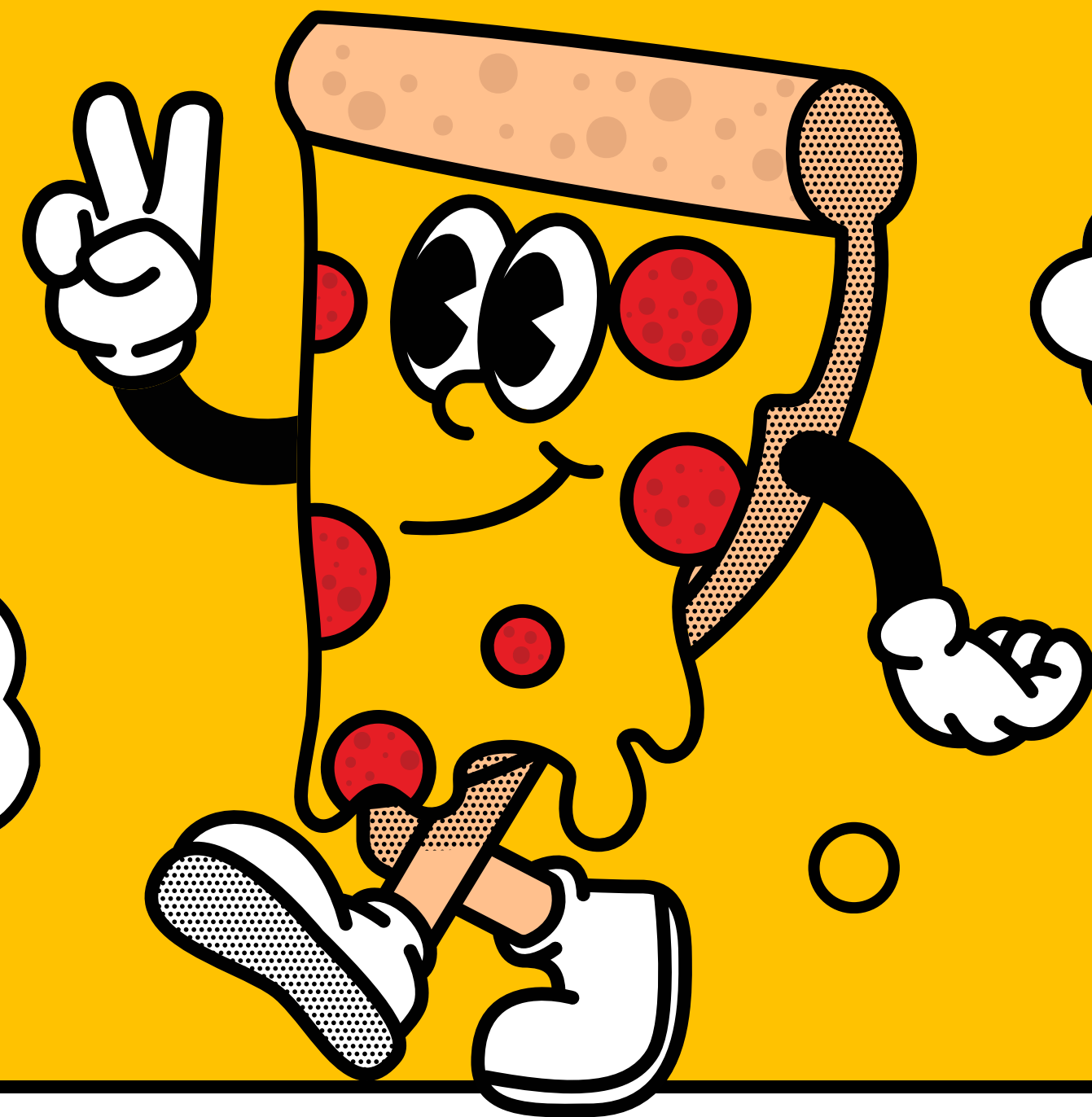


PIZZA

SQL

SQL PROJECT

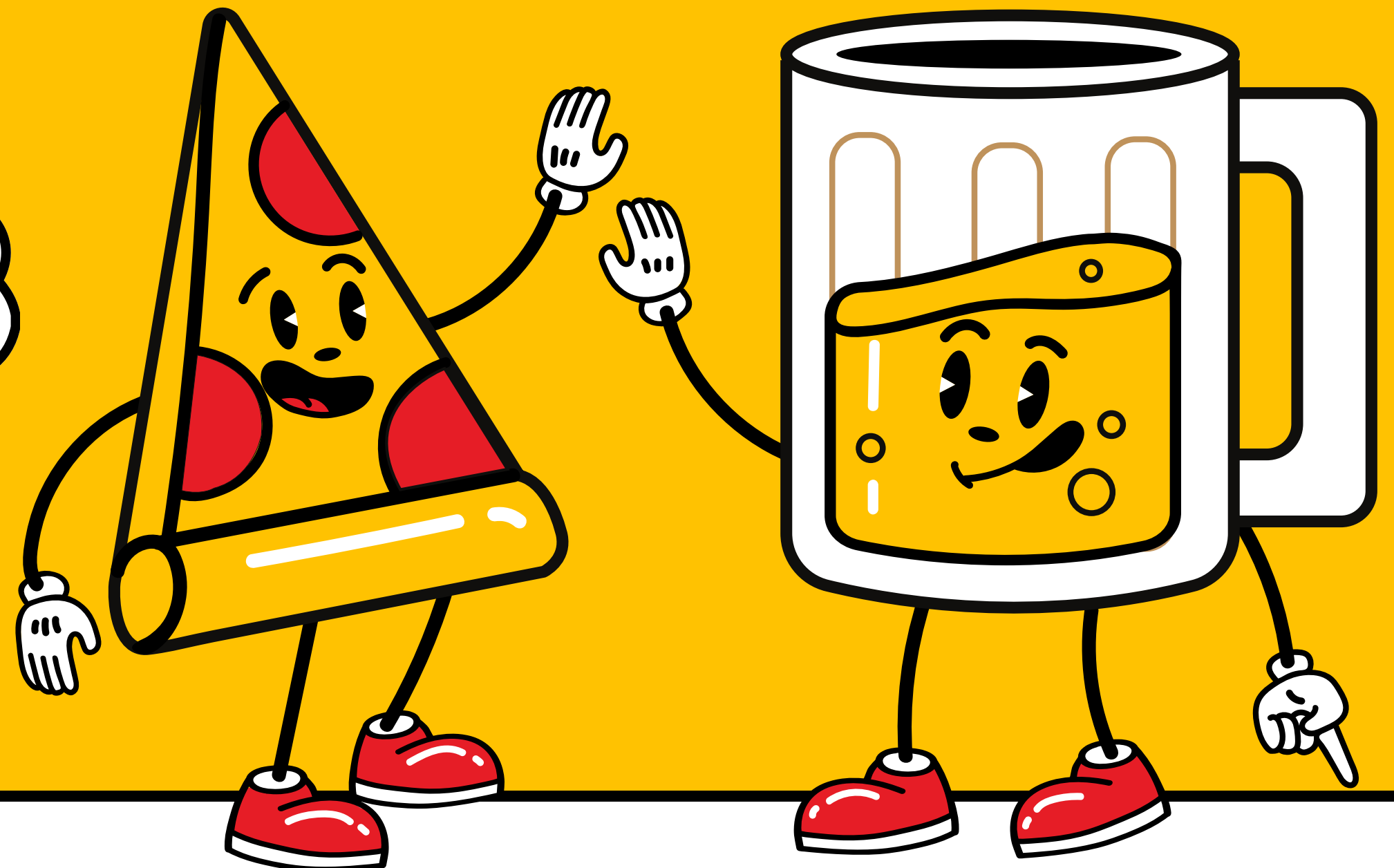


HELLO

HELLO EVERYONE,

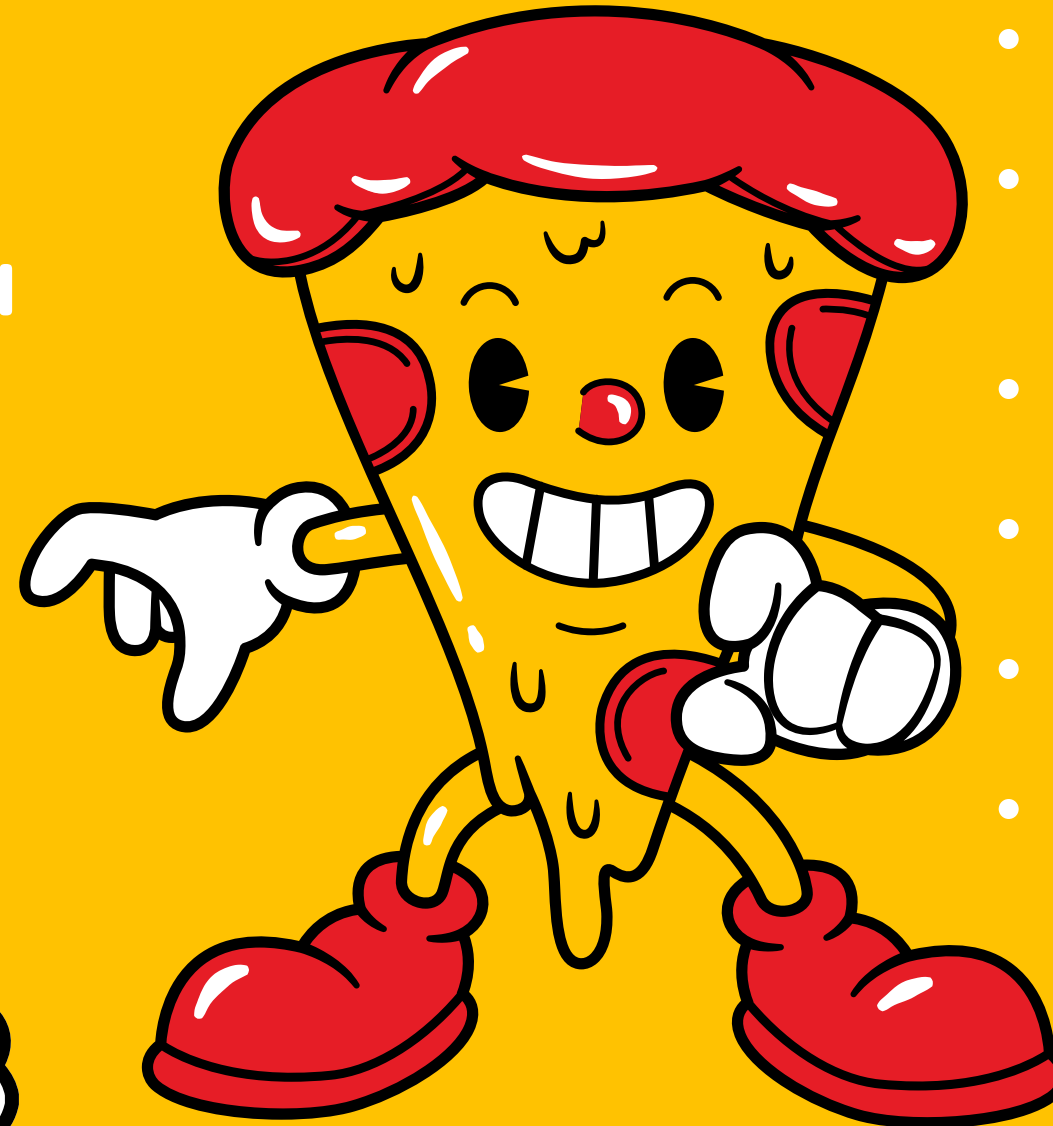
**My name is Sana.
Today I will be presenting
my SQL-based Pizza Sales
Analysis project.
In this project, I utilized SQL
queries to answer various
analytical questions related
to pizza sales data**

**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.

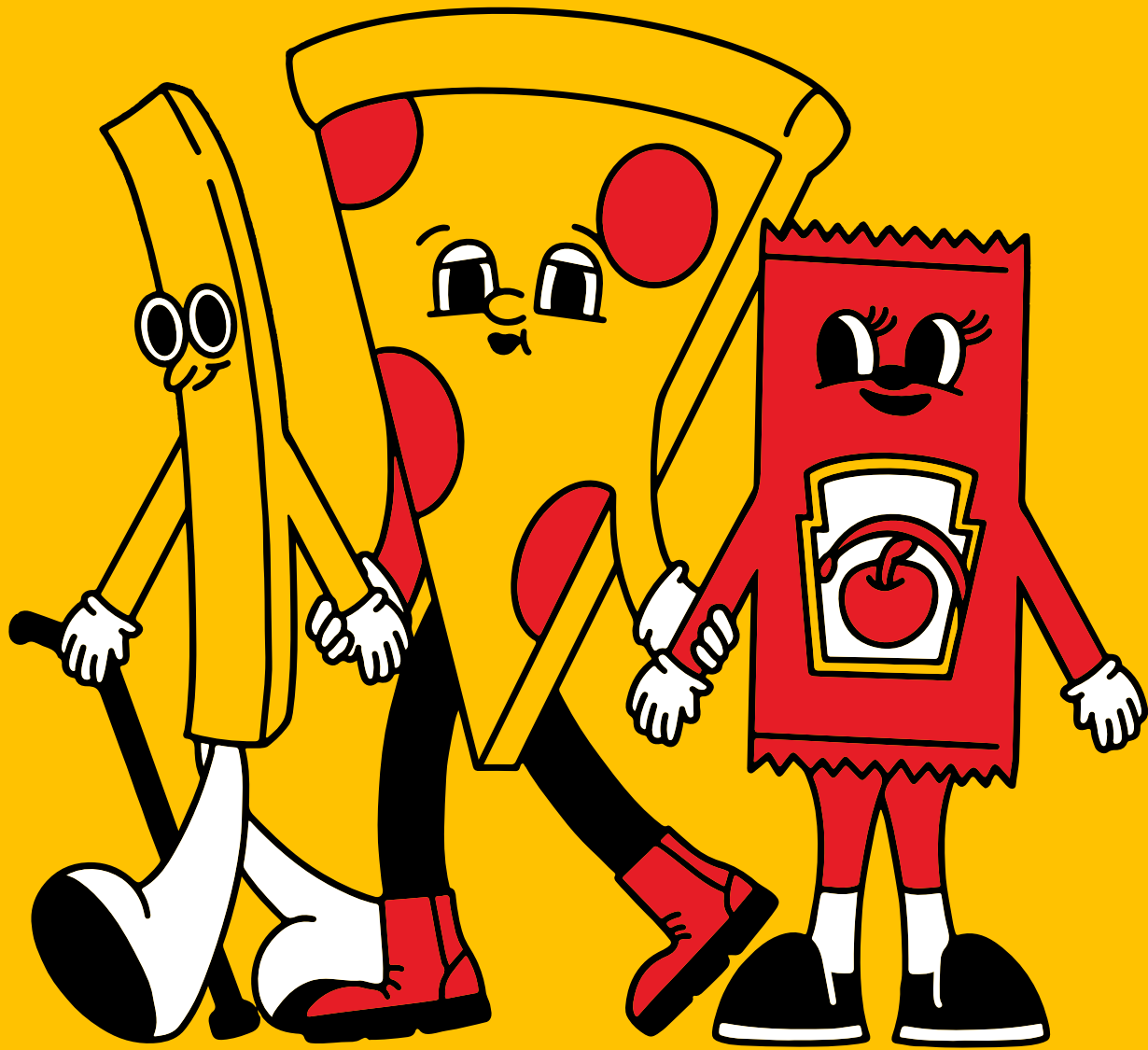


- JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED.
- DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.
- JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS
- GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.
- 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.

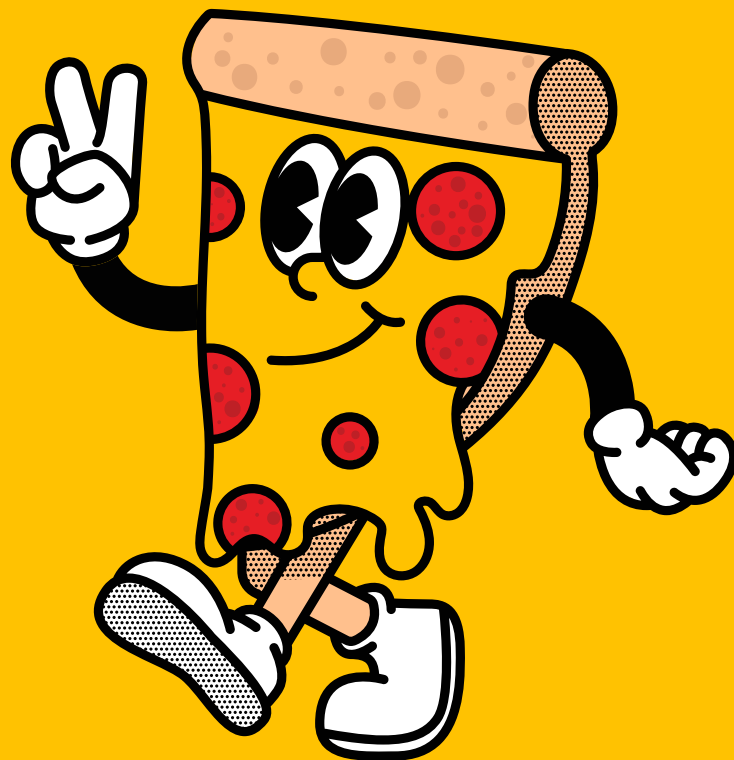
```
3 • SELECT COUNT(order_id) AS total_orders FROM orders;
```



Result Grid		Filter R
	total_orders	
▶	21350	

CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

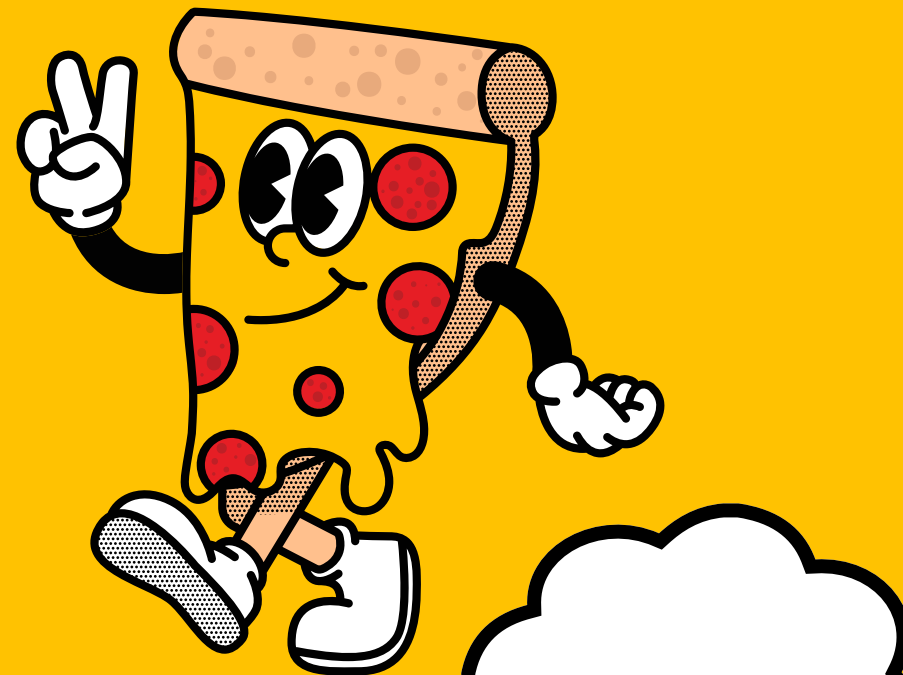
```
• SELECT
    SUM(order_details.quantity * pizzas.price) AS total_sales
FROM
    order_details
    JOIN
    pizzas ON pizzas.pizza_id = order_details.Pizza_id
```



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
10 LIMIT 1;
```

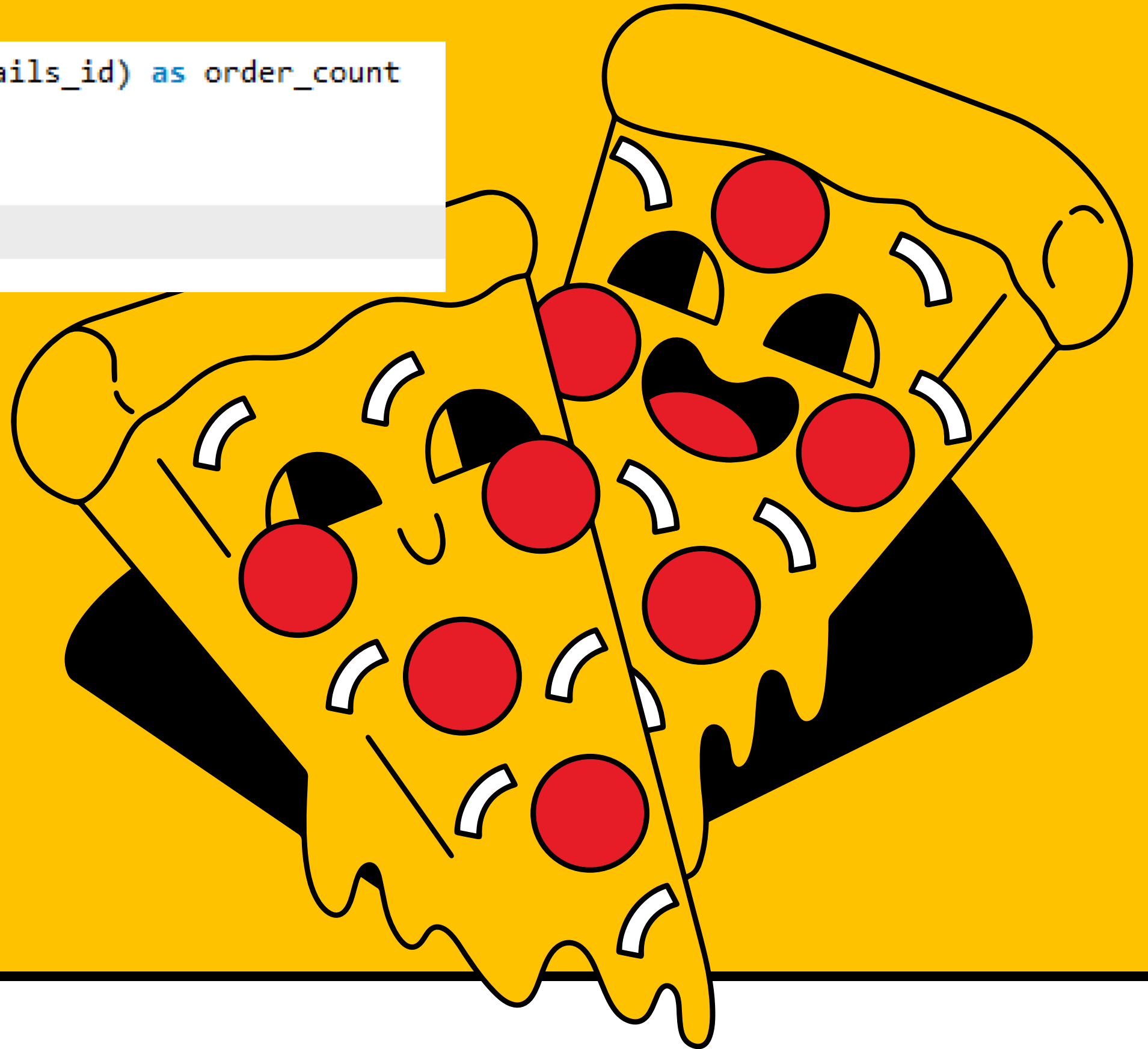


Result Grid			Filter Rows:
	name	price	
▶	The Greek Pizza	35.95	

IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

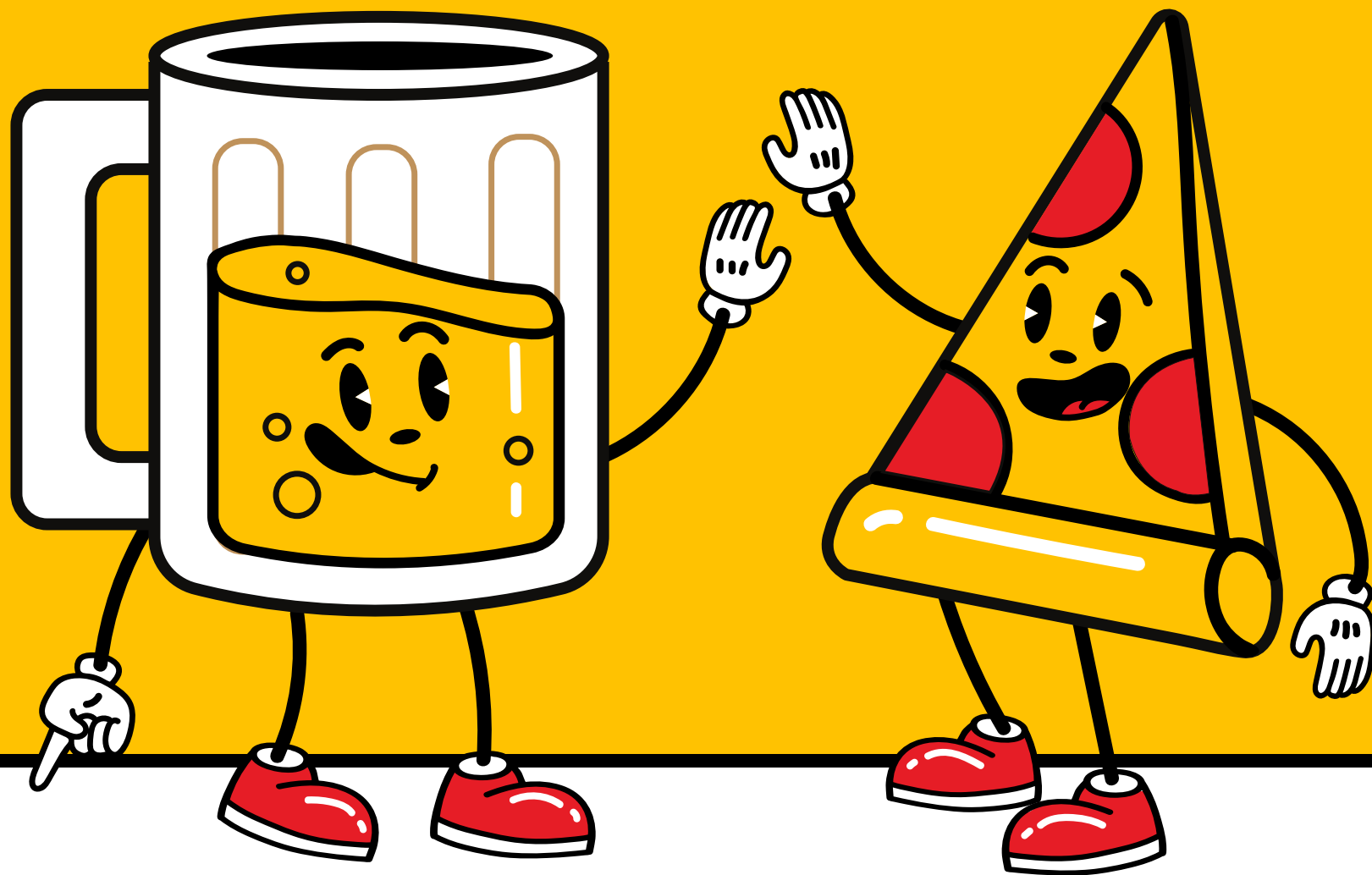
- ```
select pizzas.size, count(order_details.order_details_id) as order_count
from pizzas join order_details
on pizzas.pizza_id = order_details.Pizza_id
group by size order by order_count desc;
```

|   | 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.

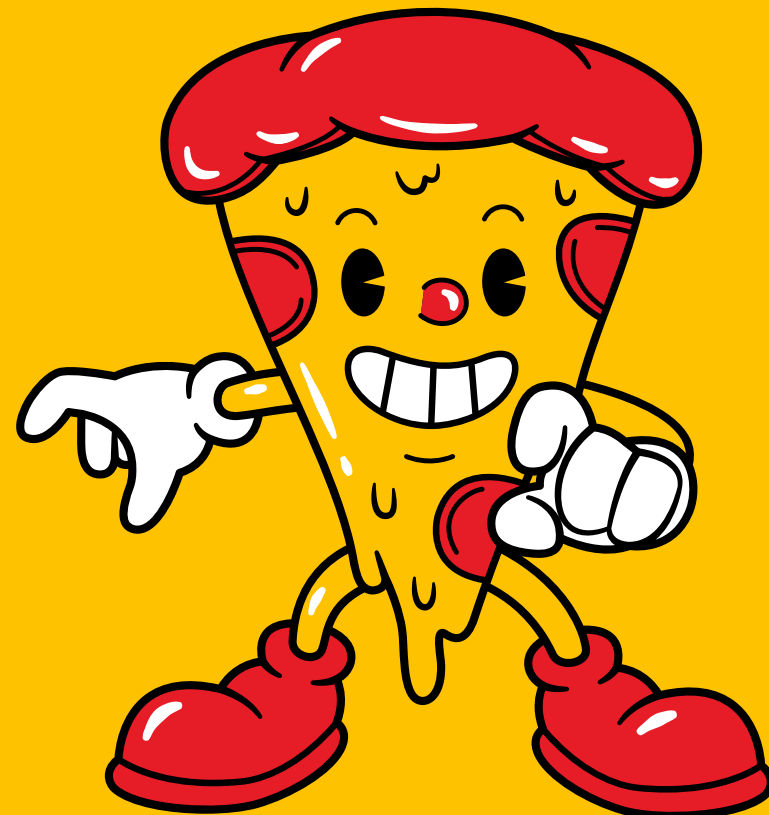
```
• select pizza_types.name,
 sum(order_details.quantity) as quantity
from pizza_types join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
join order_details
on order_details.Pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name order by quantity desc limit 5;
```



| 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;
```



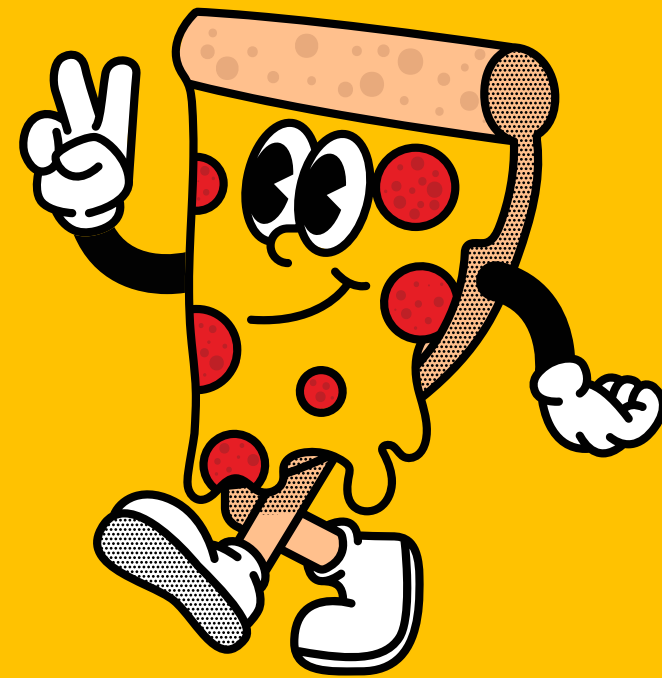
Result Grid			Filter R
	category	quantity	
▶	Classic	14888	
	Supreme	11987	
	Veggie	11649	
	Chicken	11050	



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);`

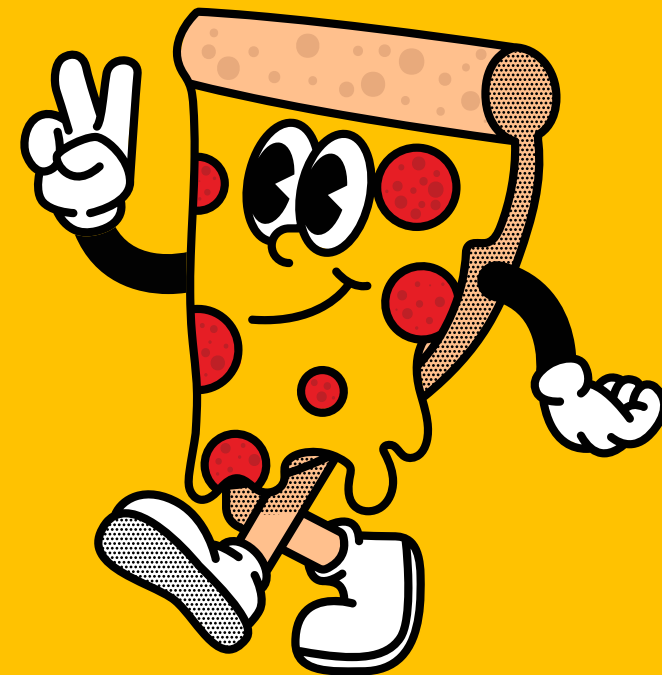


Result Grid			Filter
	hour	order_count	
▶	11	1231	
	12	2520	
	13	2455	
	14	1472	
	15	1468	
	16	1920	
	17	2336	
	18	2399	
	19	2009	
	20	1642	
	21	1198	
	22	663	
	23	28	

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



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

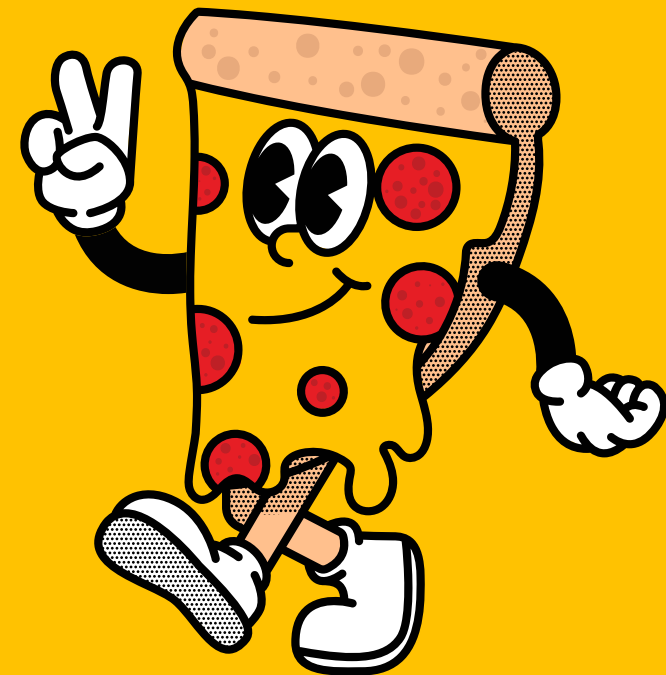


| Result Grid |          |             | Filter Rows: |
|-------------|----------|-------------|--------------|
|             | category | count(name) |              |
| ▶           | Chicken  | 6           |              |
|             | Classic  | 8           |              |
|             | Supreme  | 9           |              |
|             | Veggie   | 9           |              |

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

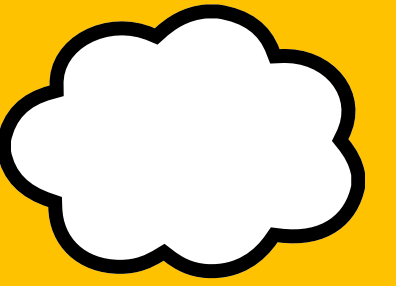


```
• SELECT
 ROUND(AVG(quantity), 0) avg_pizza_ordered_per_day
FROM
 (SELECT
 orders.order_date, SUM(order_details.quantity) AS quantity
 FROM
 orders
 JOIN order_details ON orders.Order_id = order_details.Order_id
 GROUP BY orders.order_date) AS order_quantity;
```

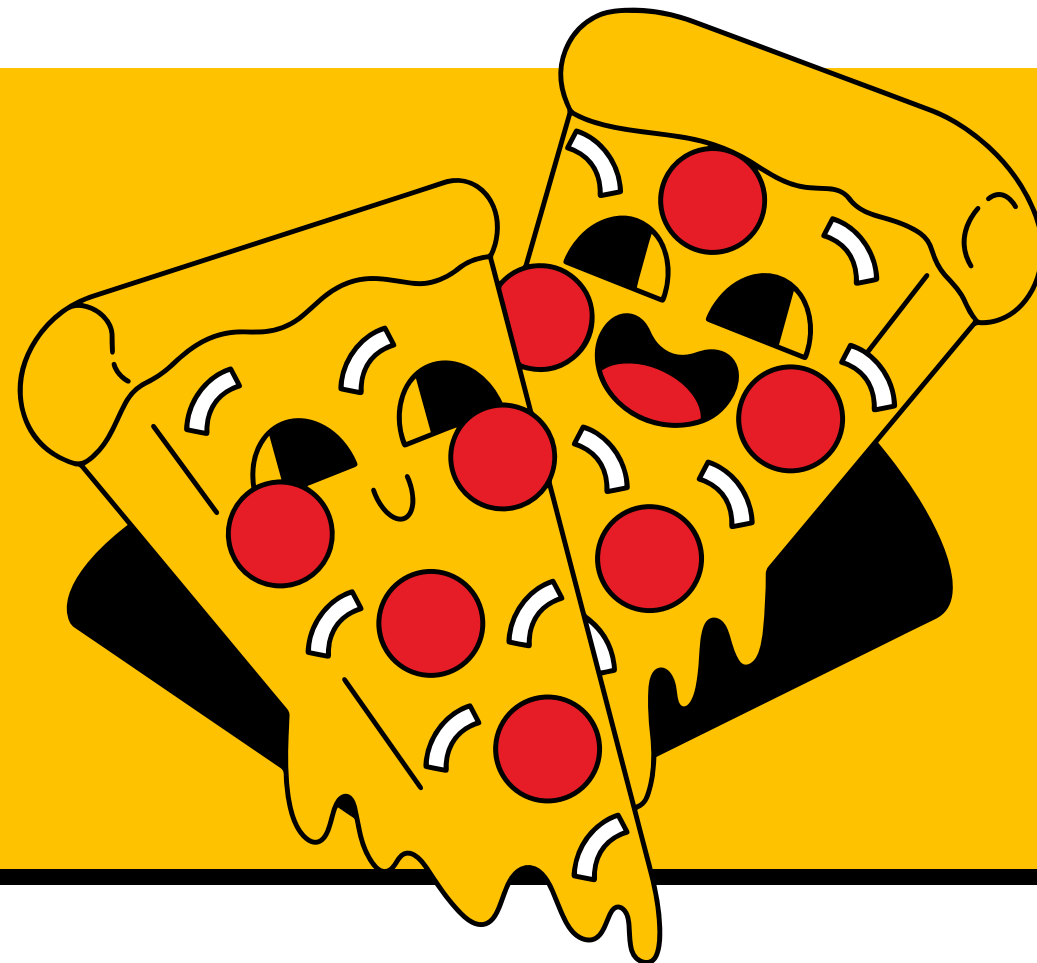


| Result Grid |                        | Filter Rows: |
|-------------|------------------------|--------------|
|             | round(avg(quantity),0) |              |
| ▶           | 138                    |              |

# 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;
```

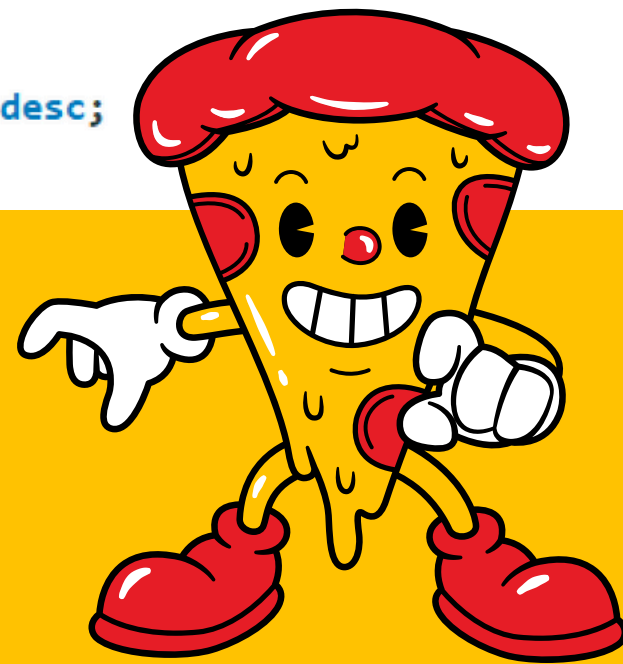


| Result Grid |                              |          | Filter Rows: |
|-------------|------------------------------|----------|--------------|
|             | name                         | revenue  |              |
| ▶           | The Thai Chicken Pizza       | 43434.25 |              |
|             | The Barbecue Chicken Pizza   | 42768.00 |              |
|             | The California Chicken Pizza | 41409.50 |              |

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



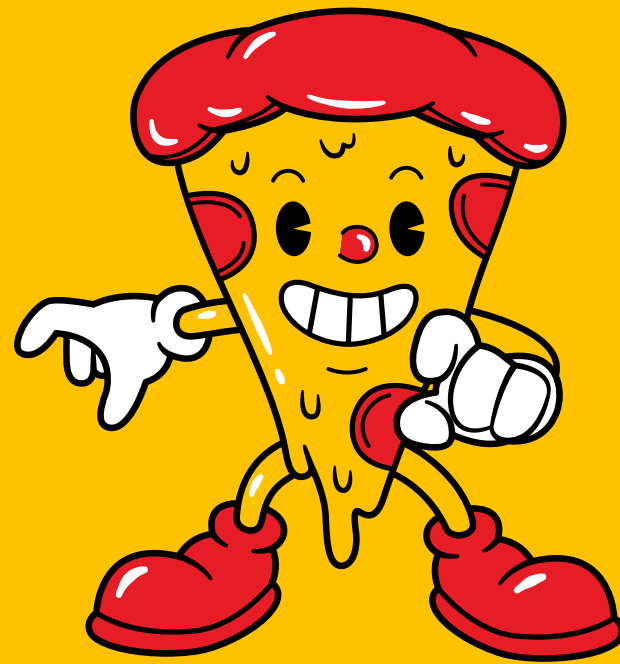
```
• select pizza_types.category,
 round(sum(order_details.quantity*pizzas.price) / (SELECT
 round(SUM(order_details.quantity * pizzas.price),2) AS total_sales
 FROM
 order_details
 JOIN
 pizzas ON pizzas.pizza_id = order_details.Pizza_id) *100,2) as revenue
from pizza_types join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
join order_details
on order_details.Pizza_id = pizzas.pizza_id
group by pizza_types.category order by revenue desc;
```



| 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;
```

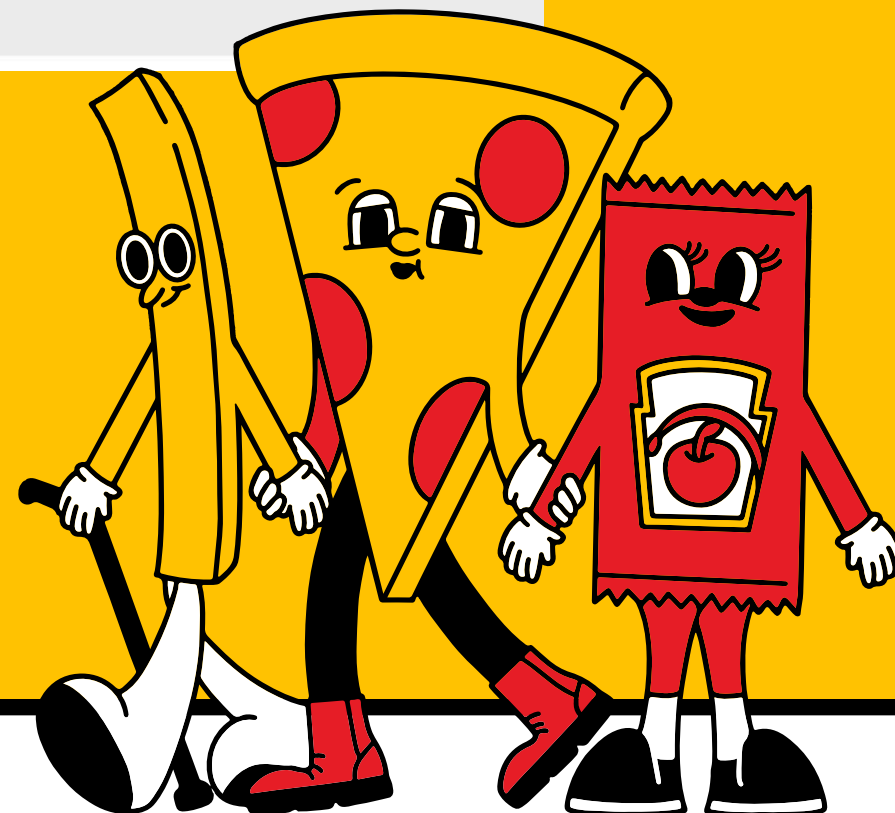


Result Grid			Filter Rows:
	order_date	cum_revenue	
	2015-01-04	9863.60	
	2015-01-05	11929.55	
	2015-01-06	14358.50	
	2015-01-07	16560.70	
	2015-01-08	19399.05	
	2015-01-09	21526.40	
	2015-01-10	23990.35	
	2015-01-11	25862.65	
	2015-01-12	27781.70	
	2015-01-13	29831.30	
	2015-01-14	32358.70	
	2015-01-15	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.

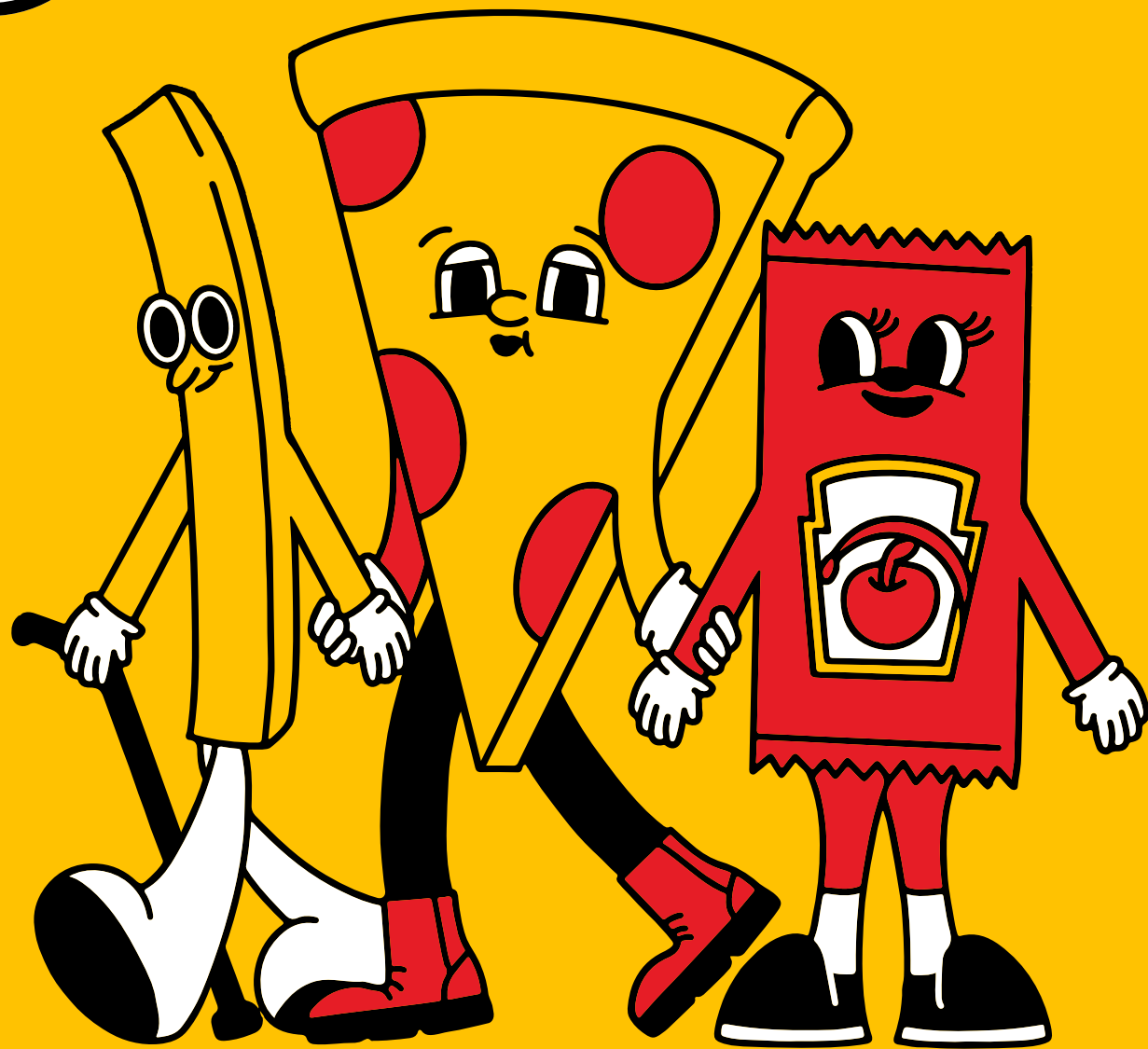


```
• select name, revenue from
  (select category, name, revenue,
   rank() over( partition by category order by revenue desc) as rn
   from
    (select pizza_types.category, pizza_types.name,
     sum((order_details.quantity) * pizzas.price) as revenue
     from pizza_types join pizzas
     on pizza_types.pizza_type_id = 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;
```



Result Grid			Filter Rows:
	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.