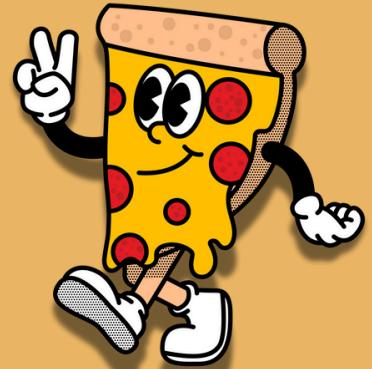
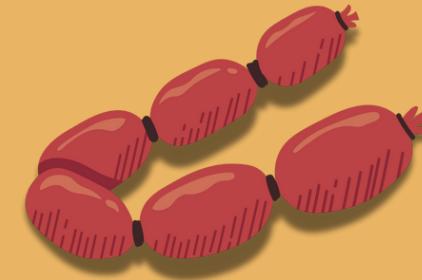


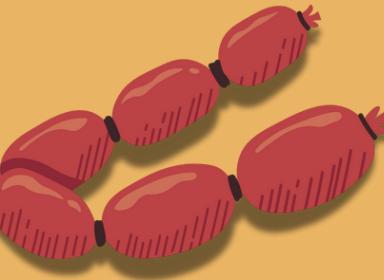


PIZZA SALES

HELLO !

MY NAME IS VINAY,
AND IN THIS PROJECT, I UTILIZED SQL QUERIES TO SOLVE
QUESTIONS RELATED TO PIZZA SALES





DATA DESCRIPTION



1. ORDER_DETAILS.CSV

- ORDER_DETAILS_ID: A UNIQUE IDENTIFIER FOR EACH ROW IN THE ORDER_DETAILS TABLE.
- ORDER_ID: A UNIQUE IDENTIFIER FOR EACH ORDER. THIS COLUMN LINKS TO THE ORDERS DATASET.
- PIZZA_ID: A UNIQUE IDENTIFIER FOR EACH PIZZA ORDERED. THIS COLUMN LINKS TO THE PIZZAS DATASET.
- QUANTITY: THE NUMBER OF PIZZAS ORDERED IN THE SPECIFIC ORDER.

2. ORDERS.CSV

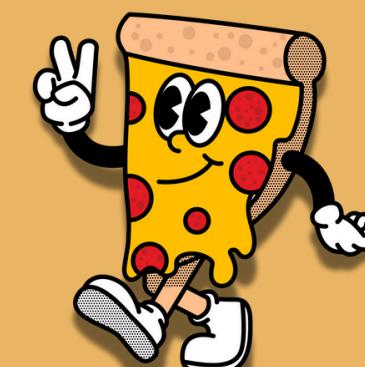
- ORDER_ID: A UNIQUE IDENTIFIER FOR EACH ORDER. THIS COLUMN LINKS TO THE ORDER_DETAILS DATASET.
- DATE: THE DATE WHEN THE ORDER WAS PLACED.
- TIME: THE TIME WHEN THE ORDER WAS PLACED.

3. PIZZAS.CSV

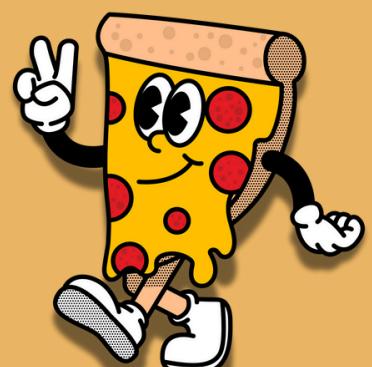
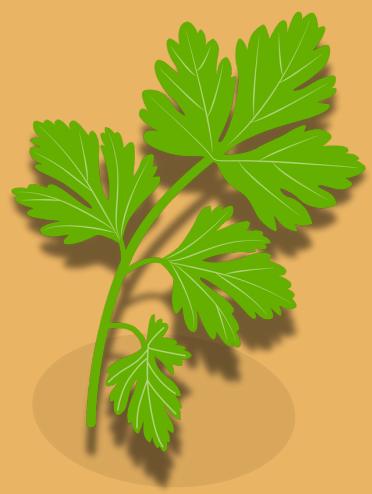
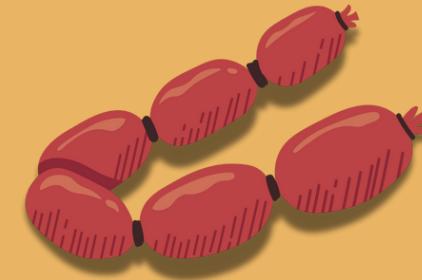
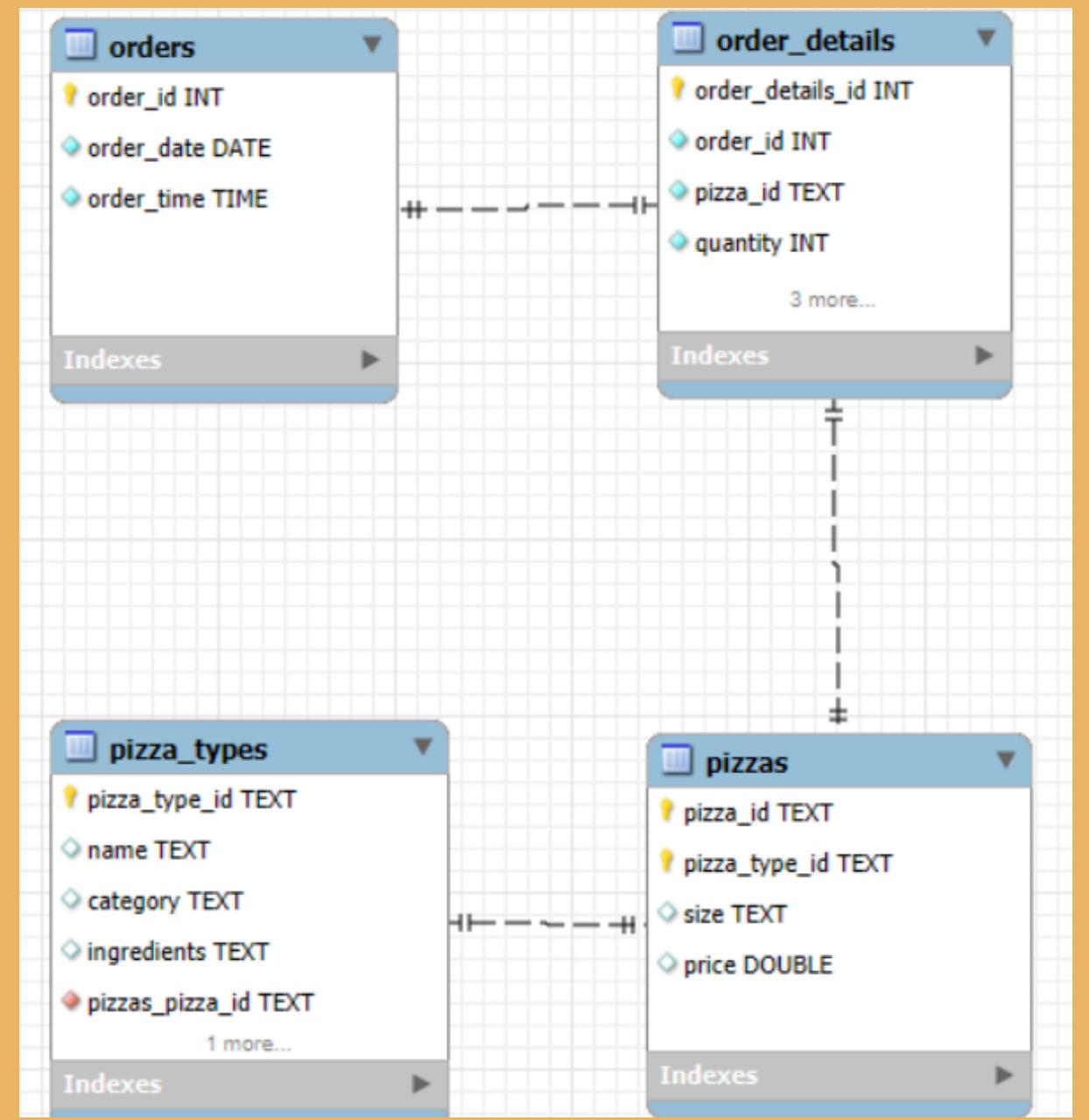
- PIZZA_ID: A UNIQUE IDENTIFIER FOR EACH PIZZA. THIS COLUMN LINKS TO THE ORDER_DETAILS DATASET.
- PIZZA_TYPE_ID: AN IDENTIFIER FOR THE TYPE OF PIZZA (E.G., BBQ CHICKEN, HAWAIIAN, ETC.).
- SIZE: THE SIZE OF THE PIZZA (E.G., SMALL, MEDIUM, LARGE).
- PRICE: THE PRICE OF THE PIZZA BASED ON ITS SIZE.

4. PIZZAS_TYPE.CSV

- PIZZA_TYPE_ID : A UNIQUE IDENTIFIER FOR EACH TYPE OF PIZZA.
- NAME : BRAND NAME THAT DESCRIBES THE PIZZA TYPE.
- CATEGORY : CATEGORIES LIKE "CHICKEN," "CLASSIC," "SUPREME," "VEGGIE," ETC.
- INGREDIENTS : A LIST OF INGREDIENTS THAT MAKE UP THE PIZZA.



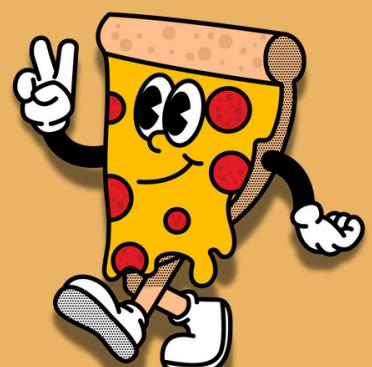
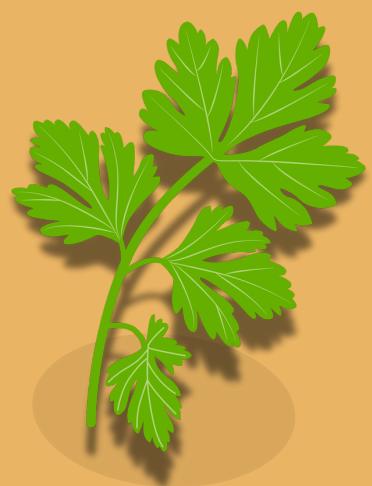
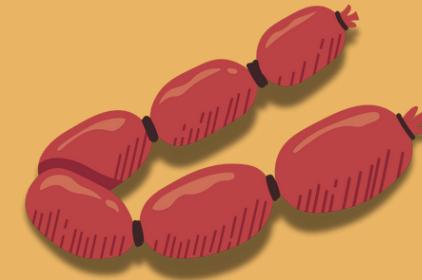
ER DIAGRAM

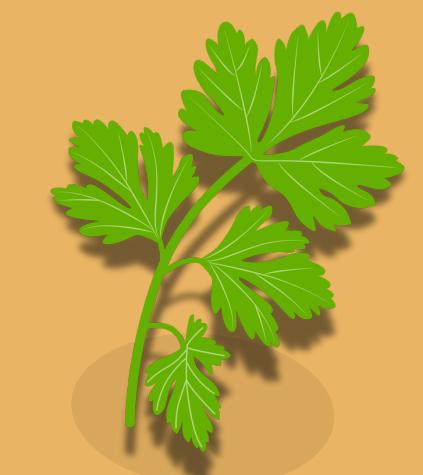
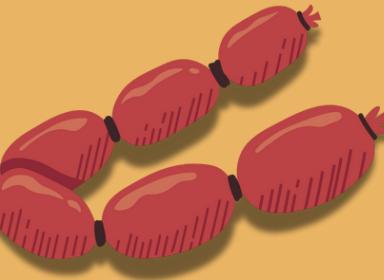


RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED

```
SELECT  
    COUNT(*) AS Total_order  
FROM  
    orders
```

	Total_order
▶	21350

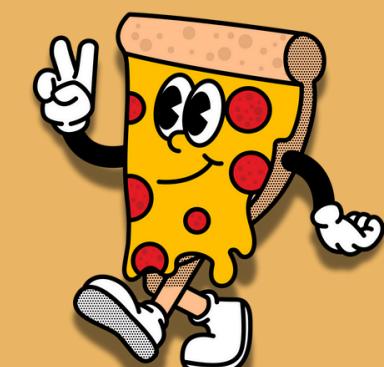




CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

```
SELECT  
    ROUND(SUM(od.quantity * p.price), 2) AS Total_revenue  
FROM  
    pizzas AS p  
    JOIN  
    order_details AS od ON od.pizza_id = p.pizza_id
```

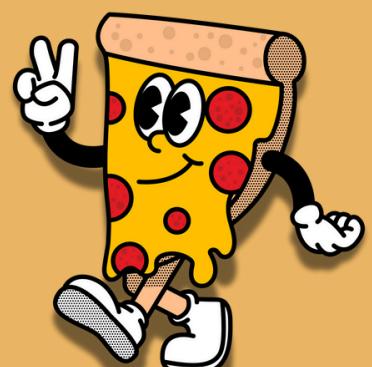
	Total_revenue
▶	817860.05

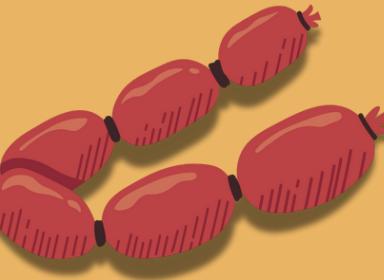


IDENTIFY THE HIGHEST-PRICED PIZZA.

```
SELECT
    pt.name, p.price
FROM
    pizza_types AS pt
    JOIN
    pizzas AS p ON pt.pizza_type_id = p.pizza_type_id
ORDER BY p.price DESC
LIMIT 1
```

	name	price
▶	The Greek Pizza	35.95

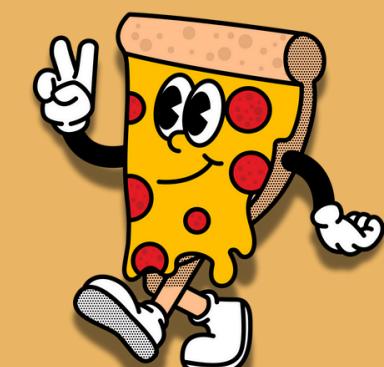




IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

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

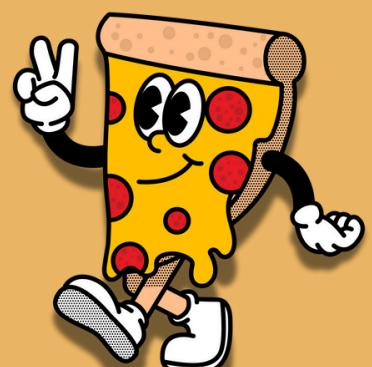
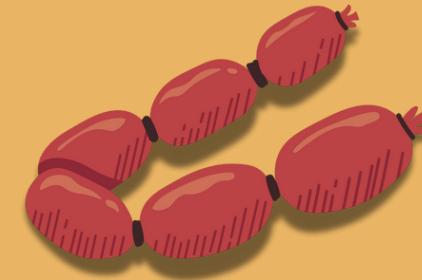
	size	order_count
▶	L	18526
	M	15385
	S	14137
	XL	544
	XXL	28

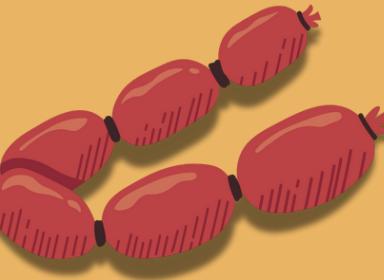


LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES.

```
SELECT
    pt.name, SUM(od.quantity) AS Qnty
FROM
    pizza_types AS pt
        JOIN
    pizzas AS p ON pt.pizza_type_id = p.pizza_type_id
        JOIN
    order_details AS od ON od.pizza_id = p.pizza_id
GROUP BY pt.name
ORDER BY qnty DESC
LIMIT 5
```

	name	Qnty
▶	The Classic Deluxe Pizza	2453
	The Barbecue Chicken Pizza	2432
	The Hawaiian Pizza	2422
	The Pepperoni Pizza	2418
	The Thai Chicken Pizza	2371



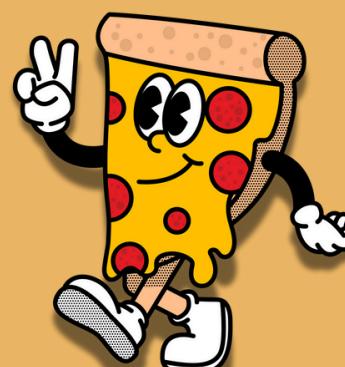


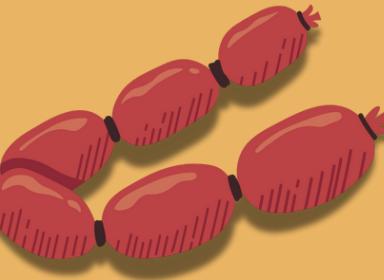
JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED.



```
SELECT  
    pt.category, SUM(od.quantity) AS Total_Quantity  
FROM  
    pizza_types AS pt  
        JOIN  
    pizzas AS p ON pt.pizza_type_id = p.pizza_type_id  
        JOIN  
    order_details AS od ON od.pizza_id = p.pizza_id  
GROUP BY pt.category
```

	category	Total_Quantity
▶	Classic	14888
	Veggie	11649
	Supreme	11987
	Chicken	11050





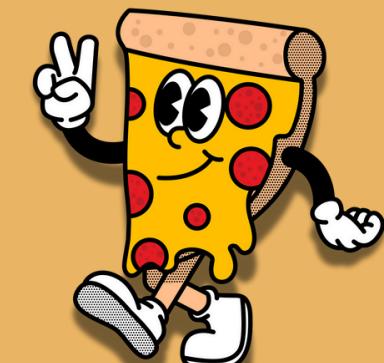
DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

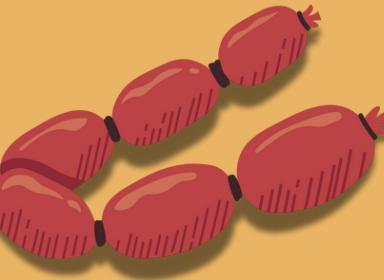


```
SELECT  
    HOUR(order_time), COUNT(order_id) AS order_count  
FROM  
    orders  
GROUP BY HOUR(order_time)  
ORDER BY order_count DESC
```



HOUR(order_time)	order_count
12	2520
13	2455
18	2399
17	2336
19	2009
16	1920
20	1642
14	1472
15	1468
11	1231



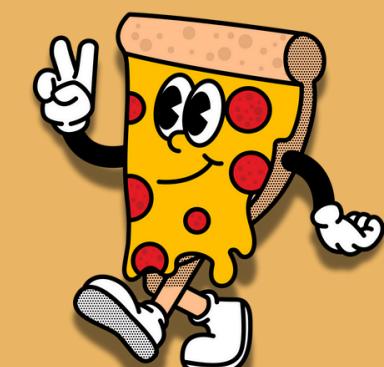


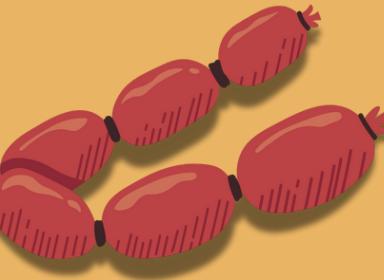
JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS.



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

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

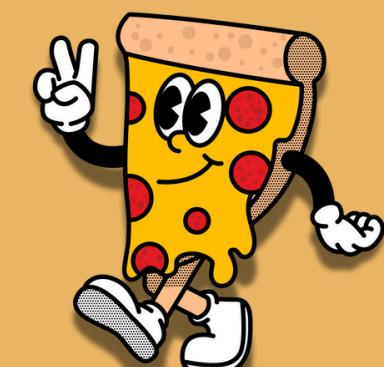


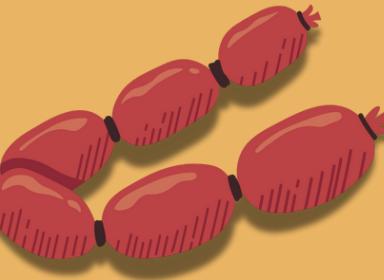


GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.

```
SELECT  
    ROUND(AVG(Quantity), 0) AS Average  
FROM  
    (SELECT  
        o.order_date, SUM(od.quantity) AS Quantity  
    FROM  
        orders AS o  
    JOIN order_details AS od ON o.order_id = od.order_id  
    GROUP BY o.order_date) AS ord_qty
```

	Average
▶	138



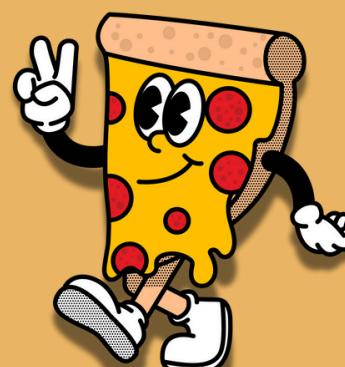


DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.



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

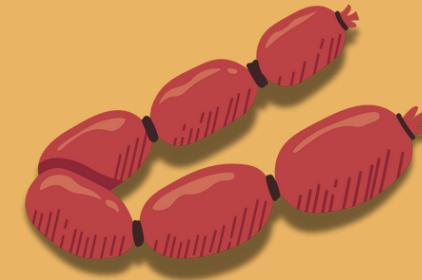
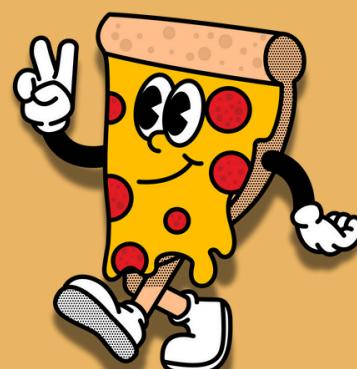
	name	revenue
▶	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5



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

```
SELECT
    pt.category,
    ROUND(SUM(od.quantity * p.price) / (SELECT
        SUM(od.quantity * p.price) AS total_sale
    FROM
        order_details AS od
        JOIN
            pizzas AS p ON od.pizza_id = p.pizza_id) * 100,
    2) AS revenue_percentage
FROM
    pizza_types AS pt
    JOIN
        pizzas AS p ON p.pizza_type_id = pt.pizza_type_id
        JOIN
            order_details AS od ON od.pizza_id = p.pizza_id
GROUP BY pt.category
```

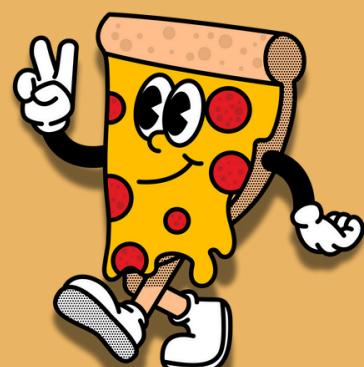
	category	revenue_percentage
▶	Classic	26.91
	Veggie	23.68
	Supreme	25.46
	Chicken	23.96

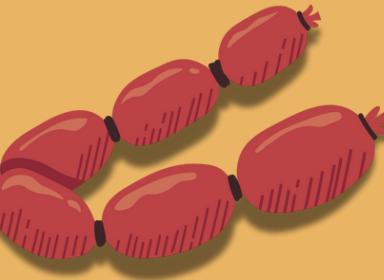


ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```
select order_date , sum(revenue) over (order by order_date) as cumulative_revenue
from
(select o.order_date, sum(od.quantity * p.price) as revenue
from orders as o
join order_details as od on od.order_id = o.order_id
join pizzas as p on p.pizza_id = od.pizza_id
group by o.order_date) as sales
```

	order_date	cumulative_revenue
▶	2015-01-01	2713.8500000000004
	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	23990.350000000002



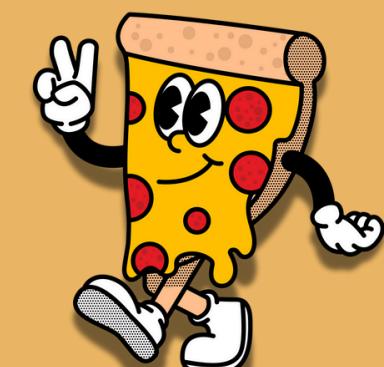


DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY.



```
select category , name , revenue
from
(select category , name , revenue,
rank() over (partition by category order by revenue) as rn
from
(select pt.category,pt.name , sum(od.quantity * p.price) as revenue
from pizza_types as pt
join pizzas as p on pt.pizza_type_id = p.pizza_type_id
join order_details as od on od.pizza_id = p.pizza_id
group by pt.category,pt.name) as a) as b
where rn<=3;
```

	category	name	revenue
▶	Chicken	The Chicken Pesto Pizza	16701.75
	Chicken	The Chicken Alfredo Pizza	16900.25
	Chicken	The Southwest Chicken Pizza	34705.75
	Classic	The Pepperoni, Mushroom, and Peppers Pizza	18834.5
	Classic	The Big Meat Pizza	22968
	Classic	The Napolitana Pizza	24087
	Supreme	The Brie Carre Pizza	11588.49999999999
	Supreme	The Spinach Supreme Pizza	15277.75
	Supreme	The Calabrese Pizza	15934.25
	Veggie	The Green Garden Pizza	13955.75
	Veggie	The Mediterranean Pizza	15360.5
	Veggie	The Spinach Pesto Pizza	15596



THANKS !!

