

@ MINTU MONDAL

PIZZA SALES ANALYSIS



Data Analysis

MySQL
Report



HELLO !!

I AM MINTU MONDAL, AND IN THIS
PROJECT, I AM USING SQL FOR
COMPREHENSIVE ANALYSIS OF PIZZA
SALES.

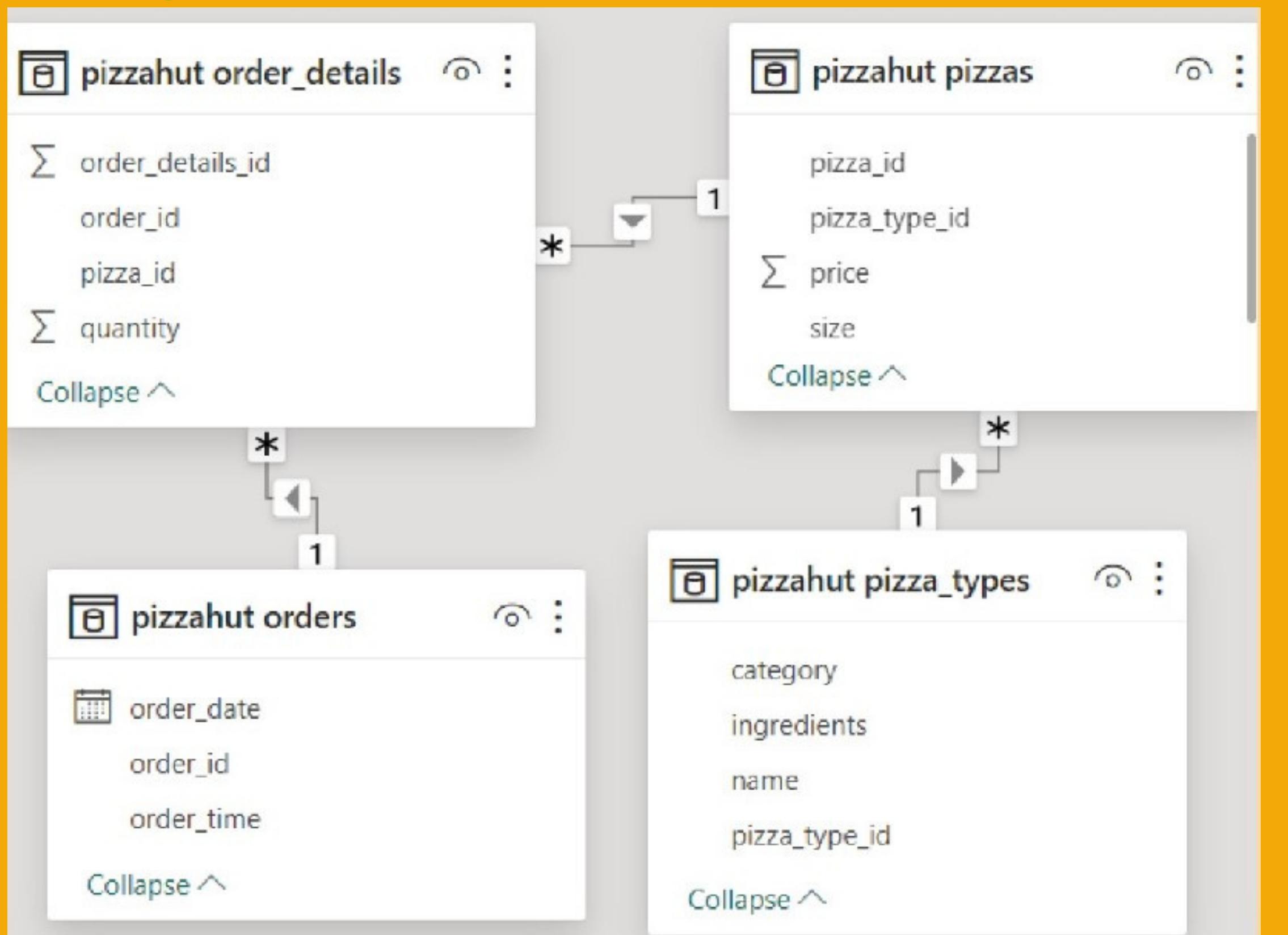




OBJECTIVE

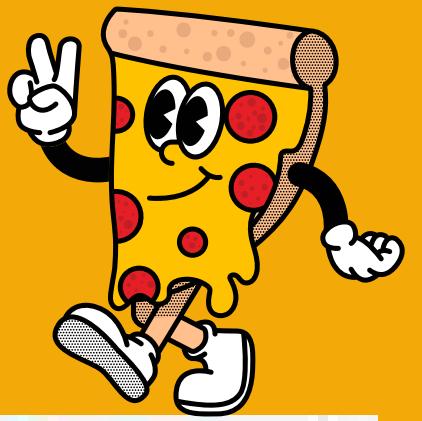
This project aims to analyze pizza sales data, revealing performance and trends within a restaurant. By examining the data, it seeks to uncover valuable insights for informed decision-making and strategic planning.

DATA MODEL OVERVIEW

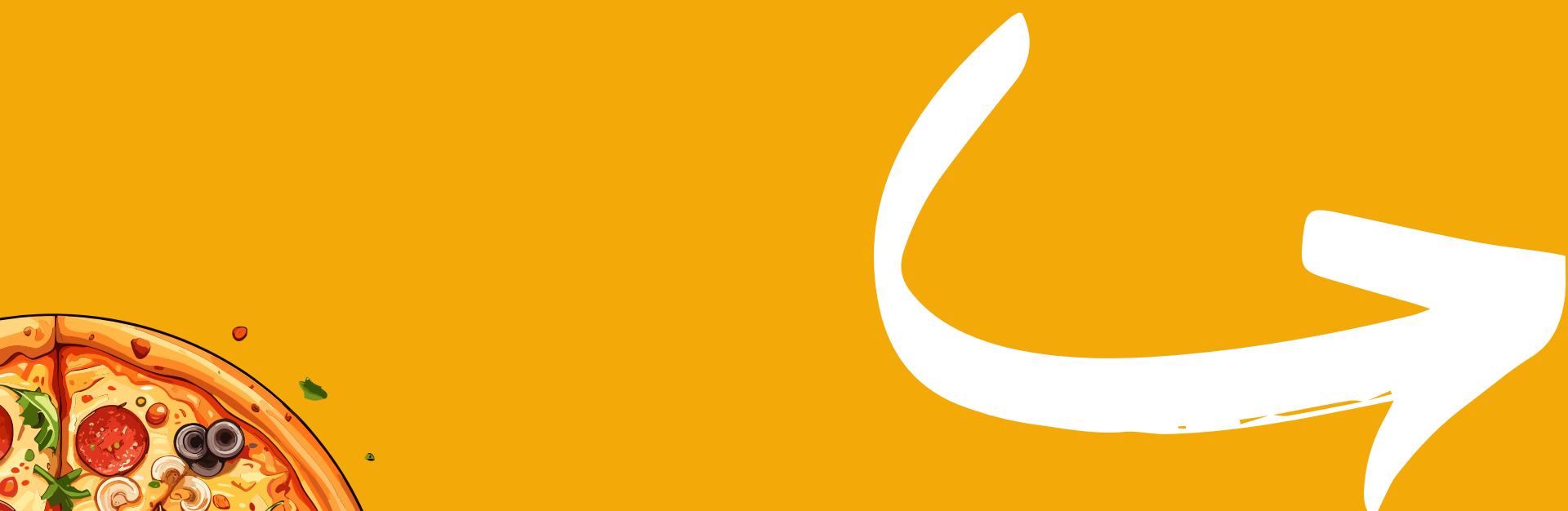


RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

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



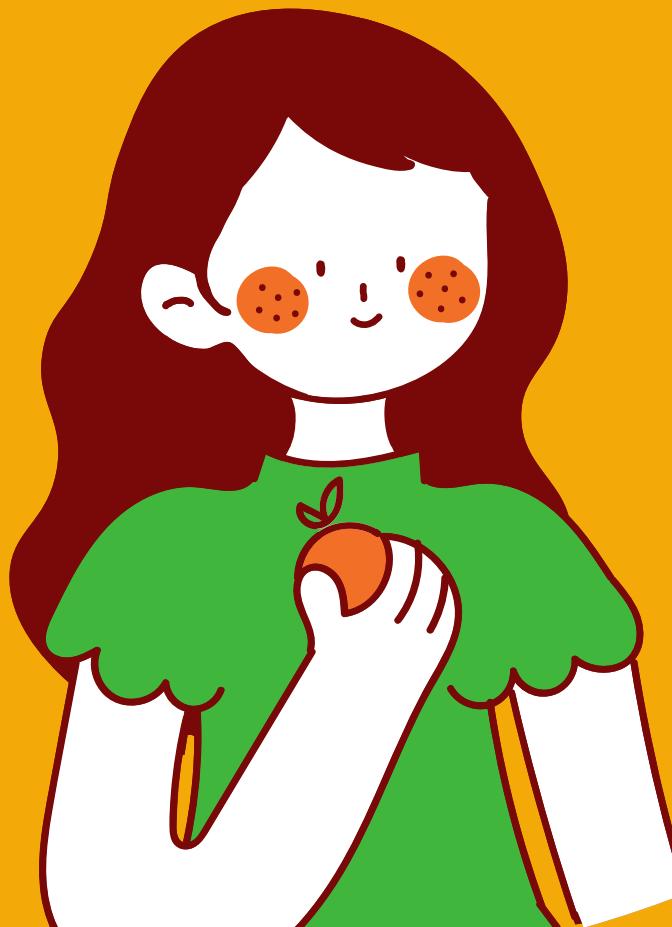
Total_Orders
21350



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;
```



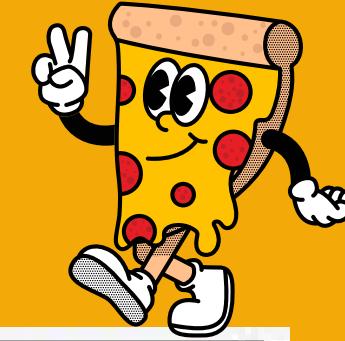
	Total_Revenue
▶	817860.05



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;
```

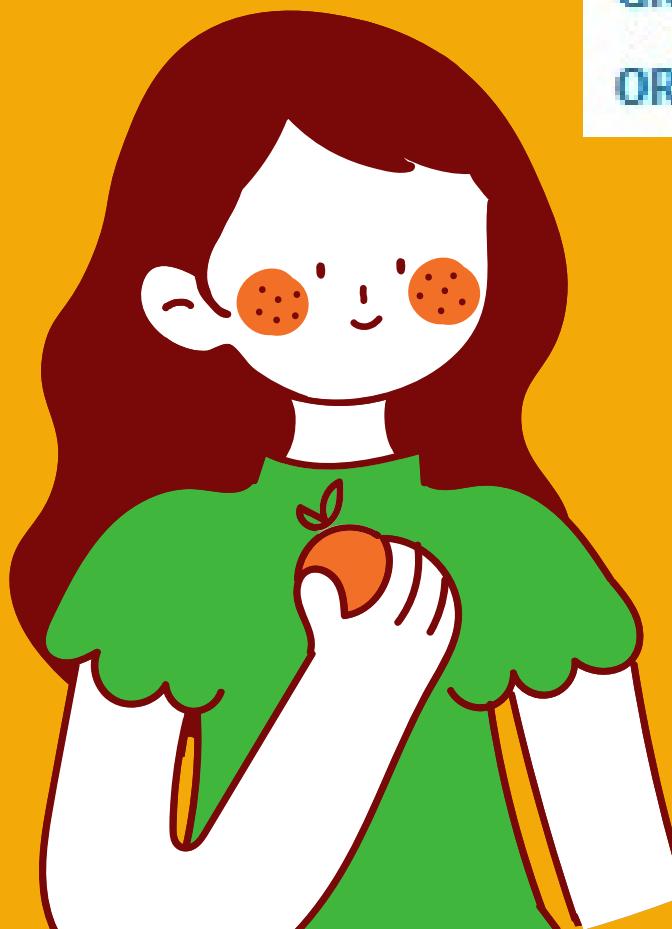
	name	price
▶	The Greek Pizza	35.95



IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

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

	size	Common_Order
▶	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(orders_details.quantity) AS 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 Quantity DESC
LIMIT 5;
```

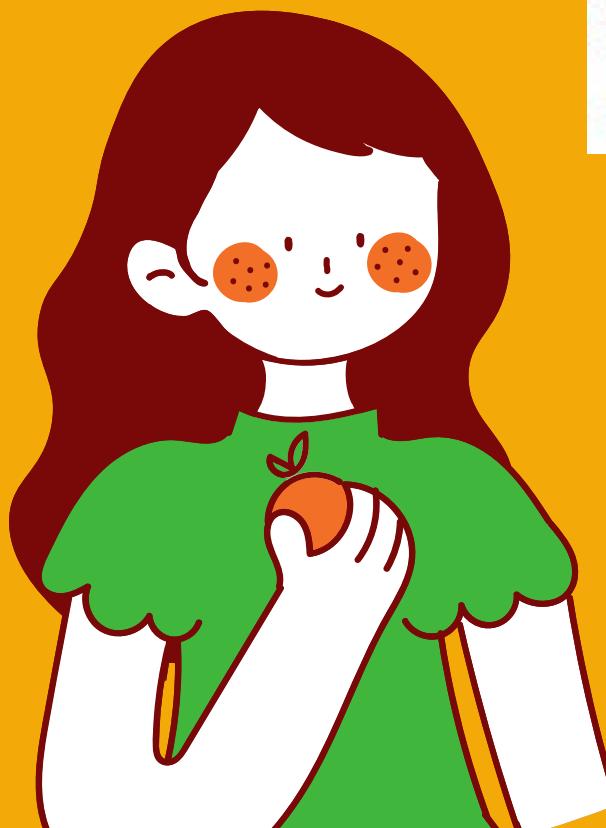


	name	Quantity
▶	The Classic Deluxe Pizza	2453
	The Barbecue Chicken Pizza	2432
	The Hawaiian Pizza	2422
	The Pepperoni Pizza	2418
	The Thai Chicken Pizza	2371



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

```
SELECT  
    pizza_types.category,  
    SUM(orders_details.quantity) AS 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 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 Cout_Order  
FROM  
    orders  
GROUP BY HOUR(order_time);
```



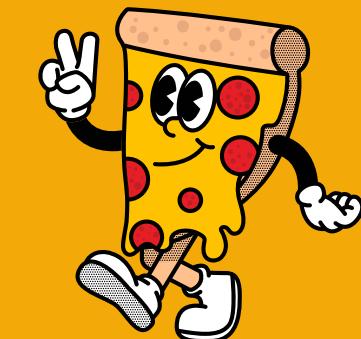
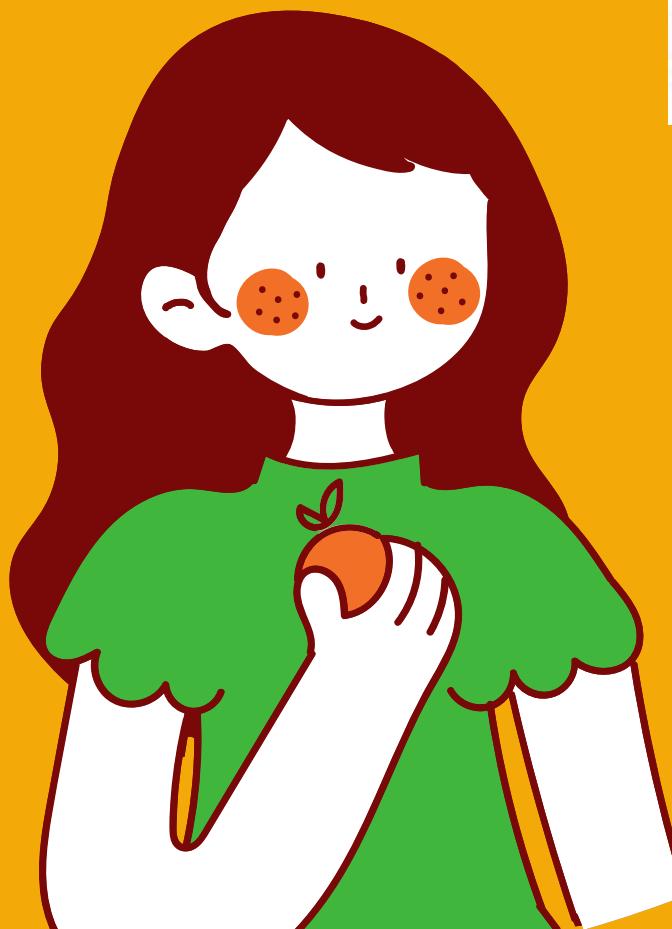
	Hour	Cout_Order
▶	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920



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 avg_pizza_ordered_per_day
```

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;
```



	avg_pizza_ordered_per_day
▶	138



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

SELECT

```
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.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



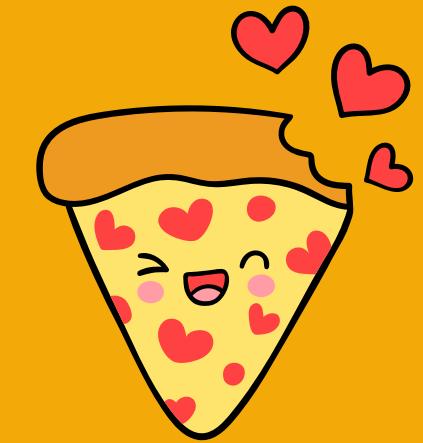
CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE ?

SELECT

```
    pizza_types.category,  
    ROUND(SUM(orders_details.quantity * pizzas.price) / (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) * 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;
```



	category	revenue
▶	Classic	26.91
	Veggie	23.68
	Supreme	25.46
	Chicken	23.96

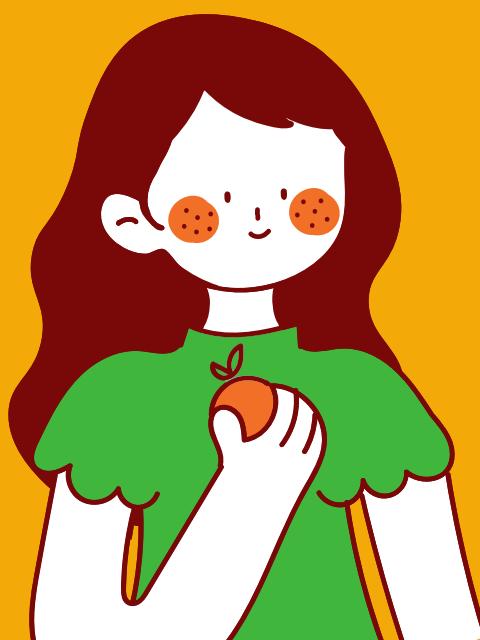


ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME ?

```
select order_date,  
round(sum(revenue) over(order by order_date),2) as cum_revenue  
from  
(select orders.order_date,  
sum(orders_details.quantity * pizzas.price) as revenue  
from orders_details join pizzas  
on orders_details.pizza_id = pizzas.pizza_id  
join orders  
on orders.order_id = orders_details.order_id  
group by orders.order_date) as sales;
```



	order_date	cum_revenue
▶	2015-01-01	2713.85
	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	23990.35
	2015-01-11	25862.65
	2015-01-12	27781.7
	2015-01-13	29831.3
	2015-01-14	32358.7



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((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;
```



	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	32265.70000000065
	The Mexicana Pizza	26780.75
	The Five Cheese Pizza	26066.5

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THANK YOU !!!

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Pizza Sales Report