

SQL PROJECT ON PIZZA SALES





HELLO I AM SONU

In this project i have utilise queries to solve a questions that were related to pizza sales





RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

SELECT

COUNT(order_id) AS total_order

FROM

orders;

	total_order
▶	21350

CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

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
```

	total_sales
▶	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 order_count
FROM
    pizzas
    JOIN
    orders_details ON pizzas.pizza_id = orders_details.pizza_id
GROUP BY pizzas.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(orders_details.quantity) AS quantity  
FROM  
    pizza_types  
        JOIN  
    pizzas ON pizza_types.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 quantity DESC  
LIMIT 5;
```



	name	quantity
▶	The Barbecue Chicken Pizza	49574
▶	The California Chicken Pizza	49574
▶	The Chicken Alfredo Pizza	49574
▶	The Chicken Pesto Pizza	49574
▶	The Southwest Chicken Pizza	49574

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
```

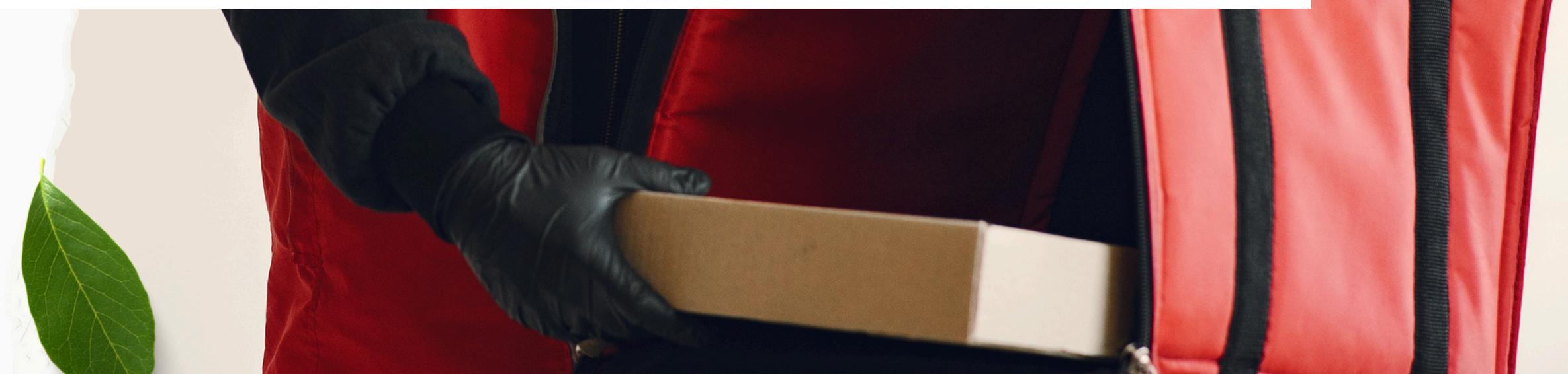
JOIN

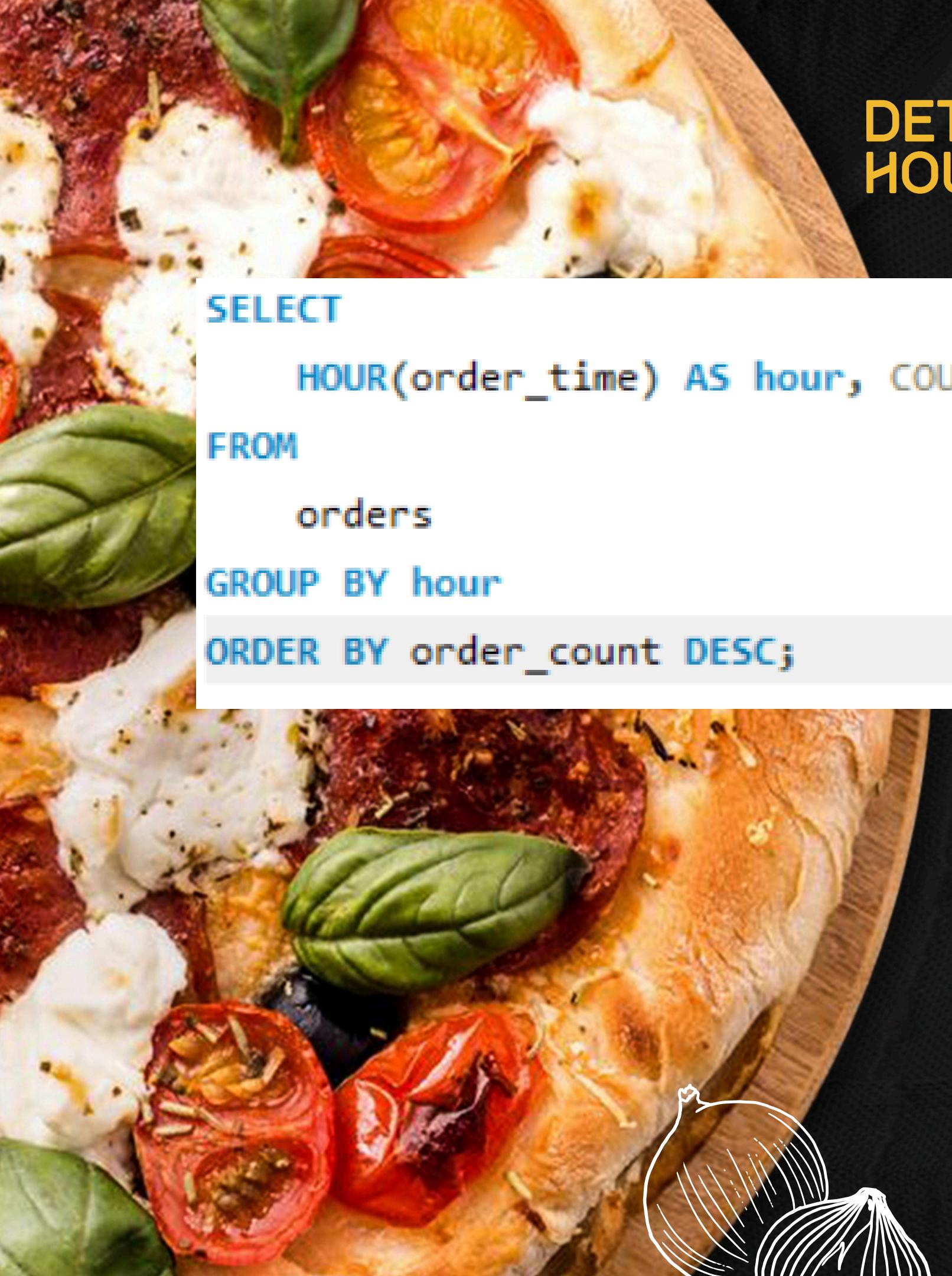
```
orders_details ON orders_details.pizza_id = pizzas.pizza_id
```

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 order_count

FROM

orders

GROUP BY hour

ORDER BY order_count DESC;

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



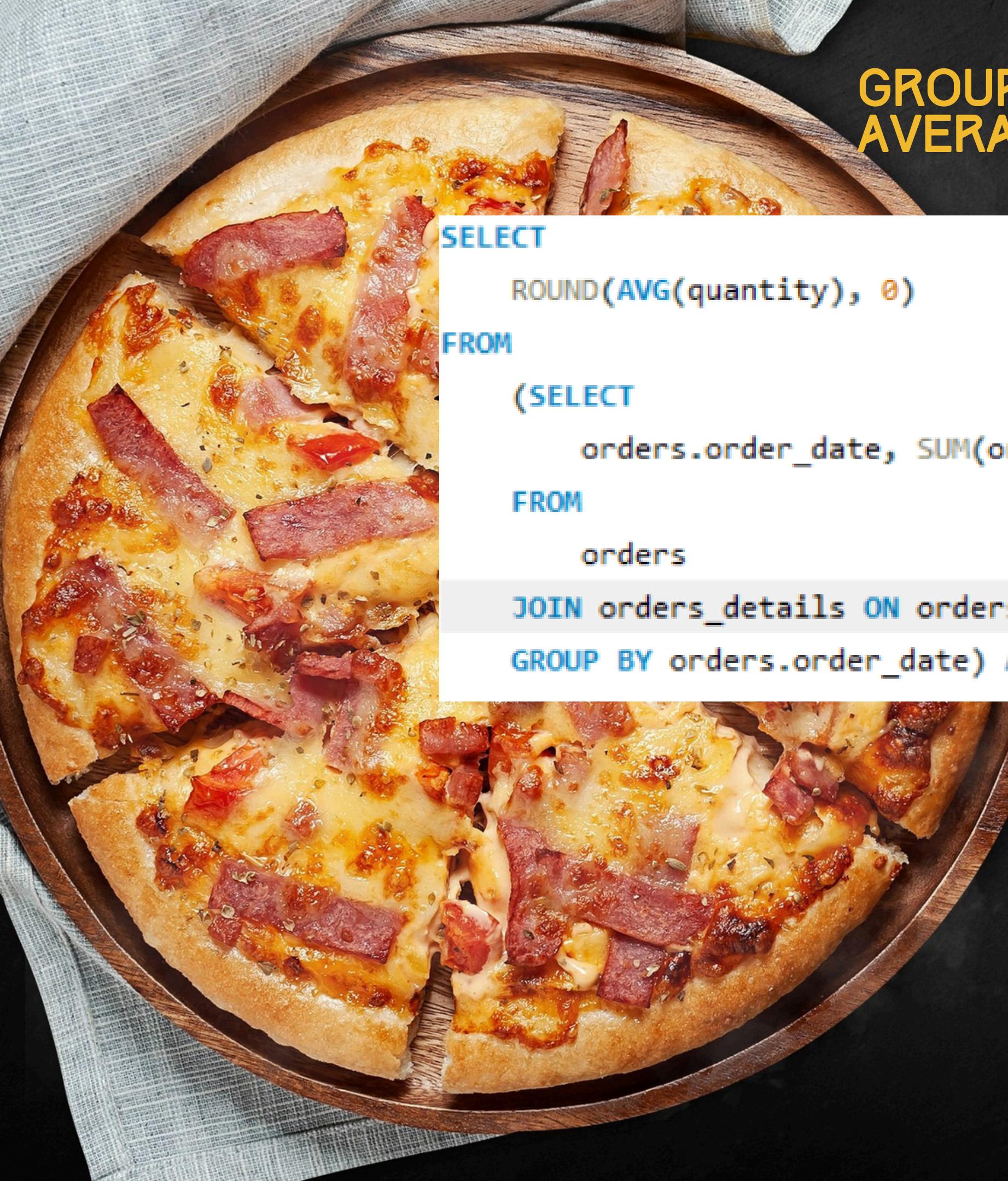
JOIN RELEVANT TABLES TO FIND THE
CATEGORY-WISE DISTRIBUTION OF PIZZAS.

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



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





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

SELECT

ROUND(AVG(quantity), 0)

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
138

DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE

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

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;
```



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;
```

	Category	revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68



ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

order_date	cum_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	23990.35000000002
2015-01-11	25862.65
2015-01-12	27781.7
2015-01-13	29831.30000000003
2015-01-14	32358.70000000004
2015-01-15	34343.50000000001
2015-01-16	36937.65000000001

```
select order_date,  
sum(revenue) over(order by order_date) 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;
```

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	32265.7000000065
	The Mexicana Pizza	26780.75
	The Five Cheese Pizza	26066.5