



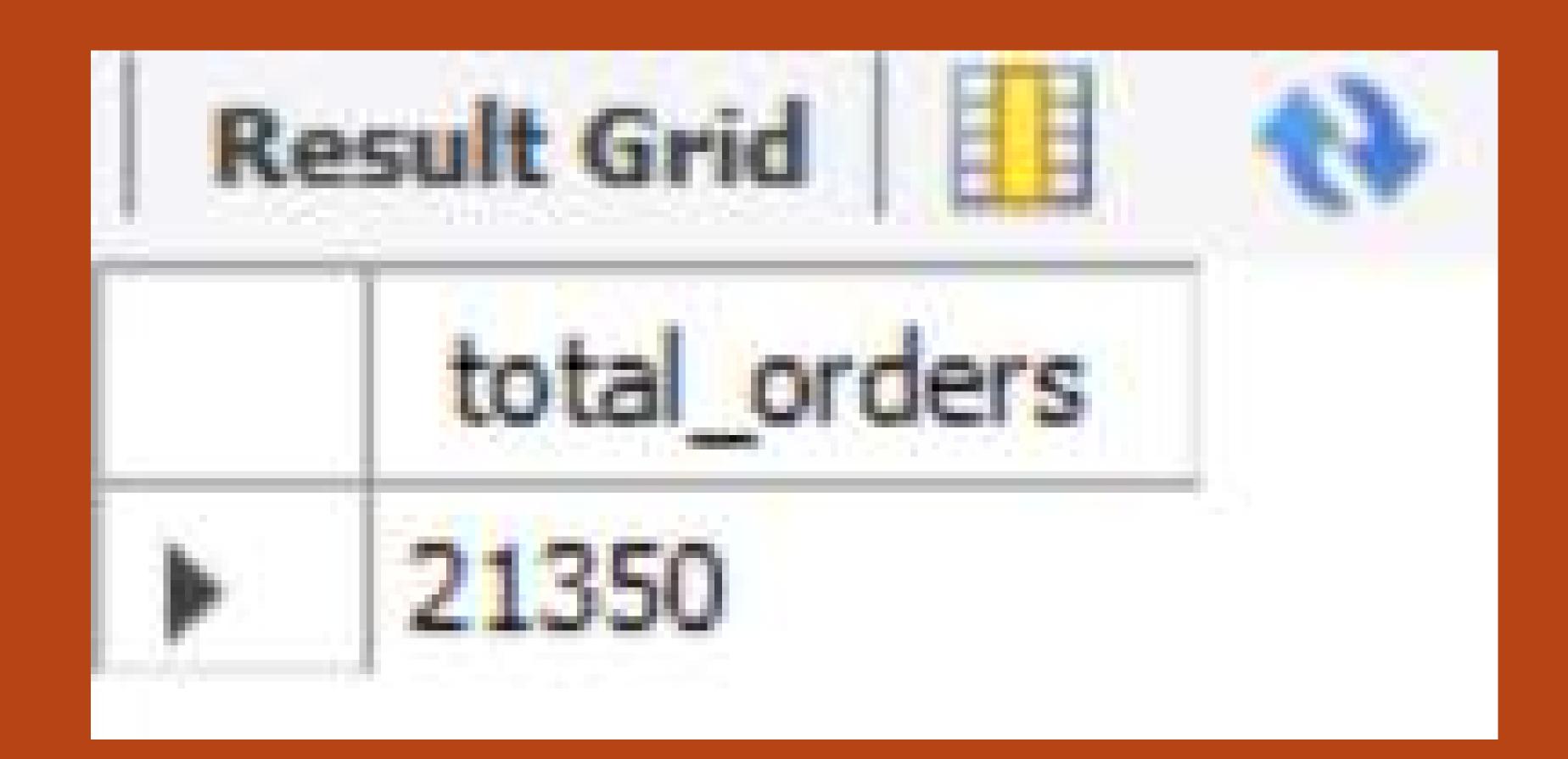
RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

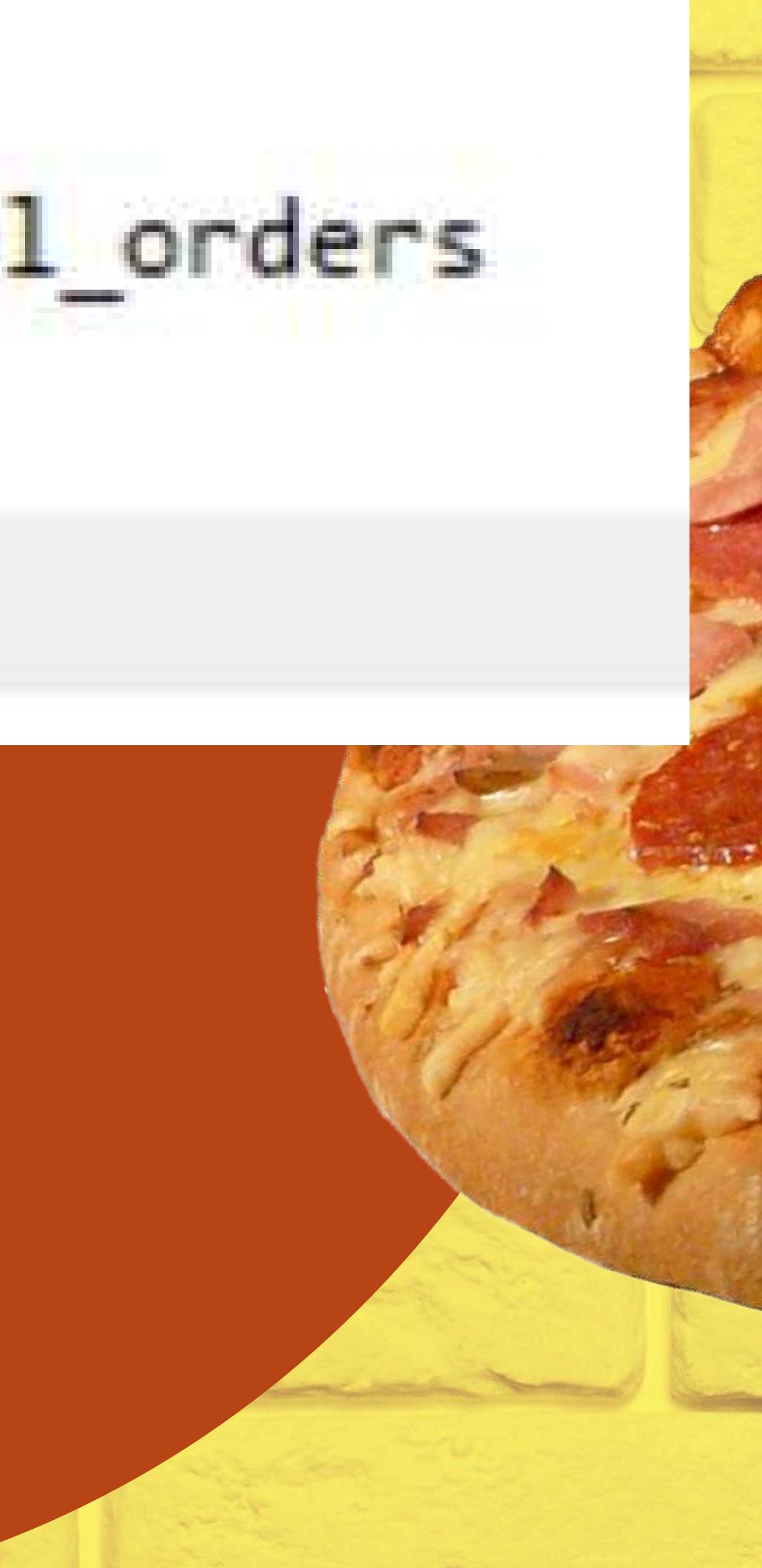


COUNT(order_id) A5 total orders

FROM

orders;







CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

ROUND(SUM(order_details.quantity * pizzas.price), 2) AS total_sales FROM order_details JOIN pizzas ON pizzas.pizza_id = order_details.pizza_id



total_sales

817860.05

IDENTIFY THE HIGHEST-PRICED PIZZA.

```
SELECT
   pizza_types.name, pizzas.price
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
ORDER BY pizzas.price DESC
LIMIT 1;
```

R	esult Grid	Filter Row
	name	price
•	The Greek Pizza	35.95





IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

R	esult Grid	H the
	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) A5 quantity
    pizza_types
    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;
```

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;
```

category	quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050



DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.



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) A5 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) A5 order_quantity;
                    avg_pizza_ordered_per_day
```



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

```
SELECT
   pizza_types.name,
    SUM(order_details.quantity * pizzas.price) AS revenue
   pizza_types
        JOIN
    pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
        JOIN
    order_details ON order_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(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;
```

category	revenue
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68

ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```
select order date,
sum(revenue) over(order by order_date) as cum_revenue
from
(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) as sales;
```

order_date	cum_revenue
2015-01-01	2713.850000000004
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
2015-01-11	25862.65
2015-01-12	27781.7
2015-01-13	29831.30000000003
2015-01-14	32358.700000000004
2015-01-15	34343.50000000001
2015-01-16	36937.65000000001

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
trom
(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
The California Chicken Pizza	41409.5
The Classic Deluxe Pizza	38180.5
The Hawaiian Pizza	32273.25
The Pepperoni Pizza	30151.75
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