

# **SQL PROJECT**

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&

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2 0 2 4

**pizza sales analysis**

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Hello,

# I'm Dhrubajyoti Banerjee

## *Data analyst*

Welcome to our SQL project on pizza sales. This presentation explores key insights such as total orders, revenue, popular pizzas, and peak order times. By analyzing this data, we aim to optimize business strategies, enhance customer satisfaction, and drive growth. Let's dive into the fascinating world of pizza sales analytics!

# Retrieve The Total Number of Orders Placed

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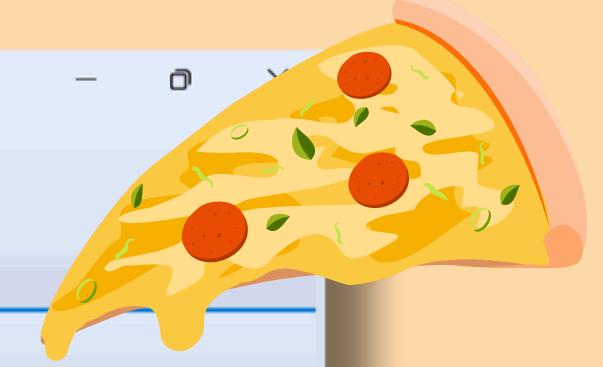
```
SELECT  
    COUNT(order_id) AS total_orders  
FROM  
    orders;
```

	total_orders
▶	21350



# The Total Revenue Generated From Pizza Sales

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MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator: local instance3 ×

Query 1 SQL File 4\* SQL File 5\* × order\_details pizzas pizzahut.orders\_details

SCHEMAS

Filter objects

order\_id pizza\_id quantity

Indexes Foreign Keys Triggers

orders Columns Indexes Foreign Keys Triggers

orders\_details Columns Indexes

Administration Schemas

Information

Column: order\_id

Definition: order\_id int

-- Calculate the total revenue generated from pizza sales.

```
1 -- Calculate the total revenue generated from pizza sales.
2 select
3 round(sum(order_details.quantity * pizzas.price),3) as total_price
4 from order_details join pizzas
5 on pizzas.pizza_id=order_details.pizza_id
```

Result Grid | Filter Rows: Export: Wrap Cell Content: Result Grid Form Editor

total_price
910026.4

Action Output

#	Time	Action	Message	Duration / Fetch
19	15:29:30	select round(sum(order_details.quantity * pizzas.price),2) as total_price from order_d...	1 row(s) returned	0.125 sec / 0.000 sec
20	15:30:09	select sum(order_details.quantity * pizzas.price) as total_price from order_details join...	1 row(s) returned	0.109 sec / 0.000 sec
21	15:30:37	select round(sum(order_details.quantity * pizzas.price),2) as total_price from order_d...	1 row(s) returned	0.110 sec / 0.000 sec
22	15:30:55	select round(sum(order_details.quantity * pizzas.price),3) as total_price from order_d...	1 row(s) returned	0.125 sec / 0.000 sec
23	15:35:03	ANALYZE TABLE 'pizzahut'.orders_details	OK	0.000 sec
24	15:37:21	select round(sum(order_details.quantity * pizzas.price),3) as total_price from order_d...	1 row(s) returned	0.125 sec / 0.000 sec

Object Info Session

1 35°C Sunny Search ENG IN 15:37 14-05-2024 PRE

# List the Top 5 Most Ordered Pizza

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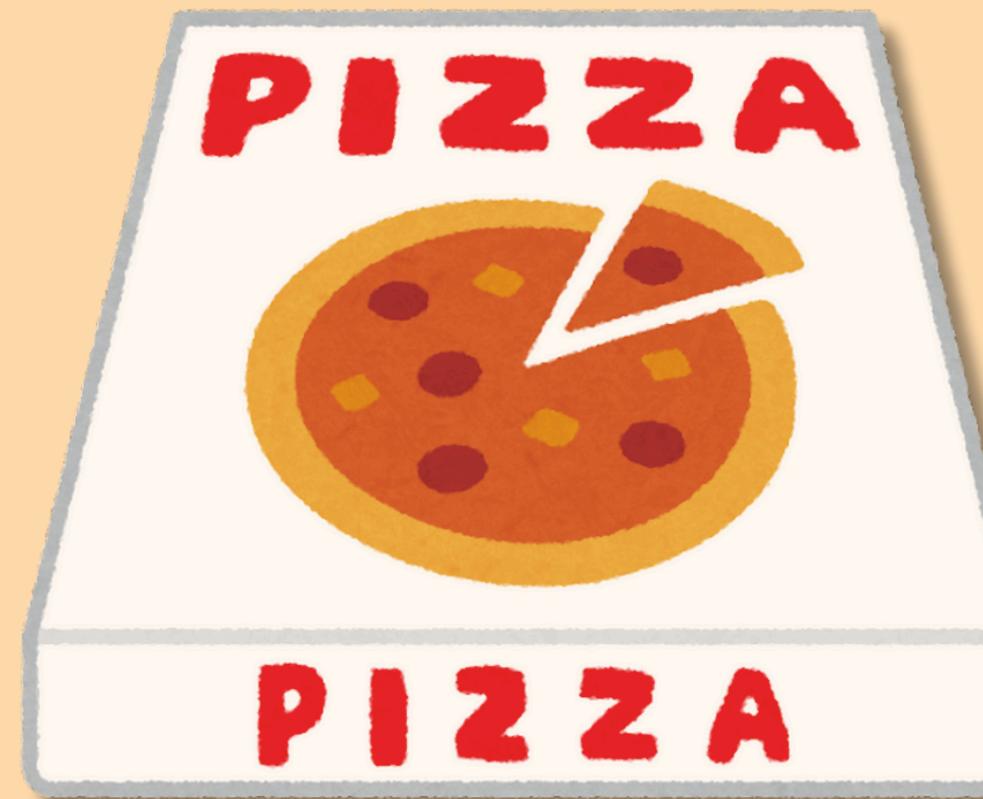
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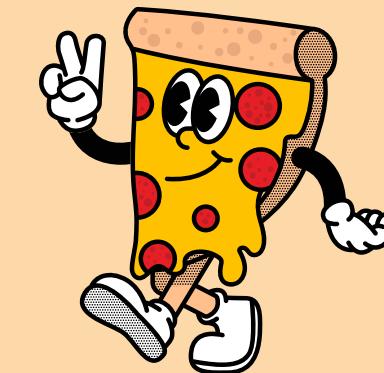
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```
select pizza_types.name,  
       sum(order_details.quantity) as quantity  
  from pizza_types join pizzas  
  on pizza_types.pizza_type_id=pizzas.pizza_type_id  
 join order_details  
 on order_details.pizza_id=pizzas.pizza_id  
 group by pizza_types.name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



Result Grid | Filter Rows:

	name	quantity
▶	The Pepperoni Pizza	2724
	The Barbecue Chicken Pizza	2712
	The Classic Deluxe Pizza	2701
	The Hawaiian Pizza	2672
	The California Chicken Pizza	2643



# Determine The Distribution Of Orders By Hour

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```
SELECT HOUR(order_time) AS hour, COUNT(order_id) AS order_count  
FROM orders  
GROUP BY HOUR(order_time);
```



Result Grid | Filter Rows: Export: Wrap Cell C

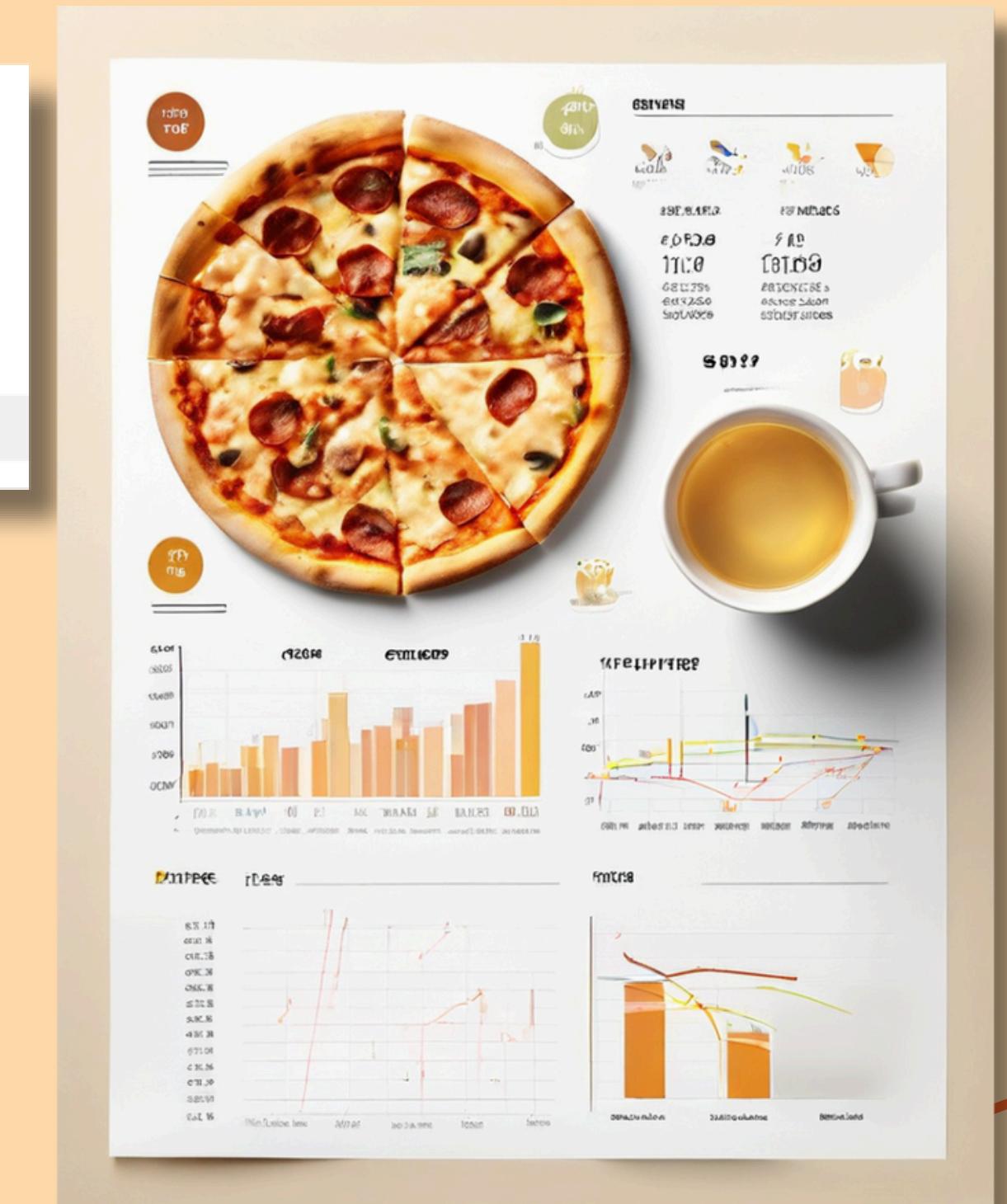
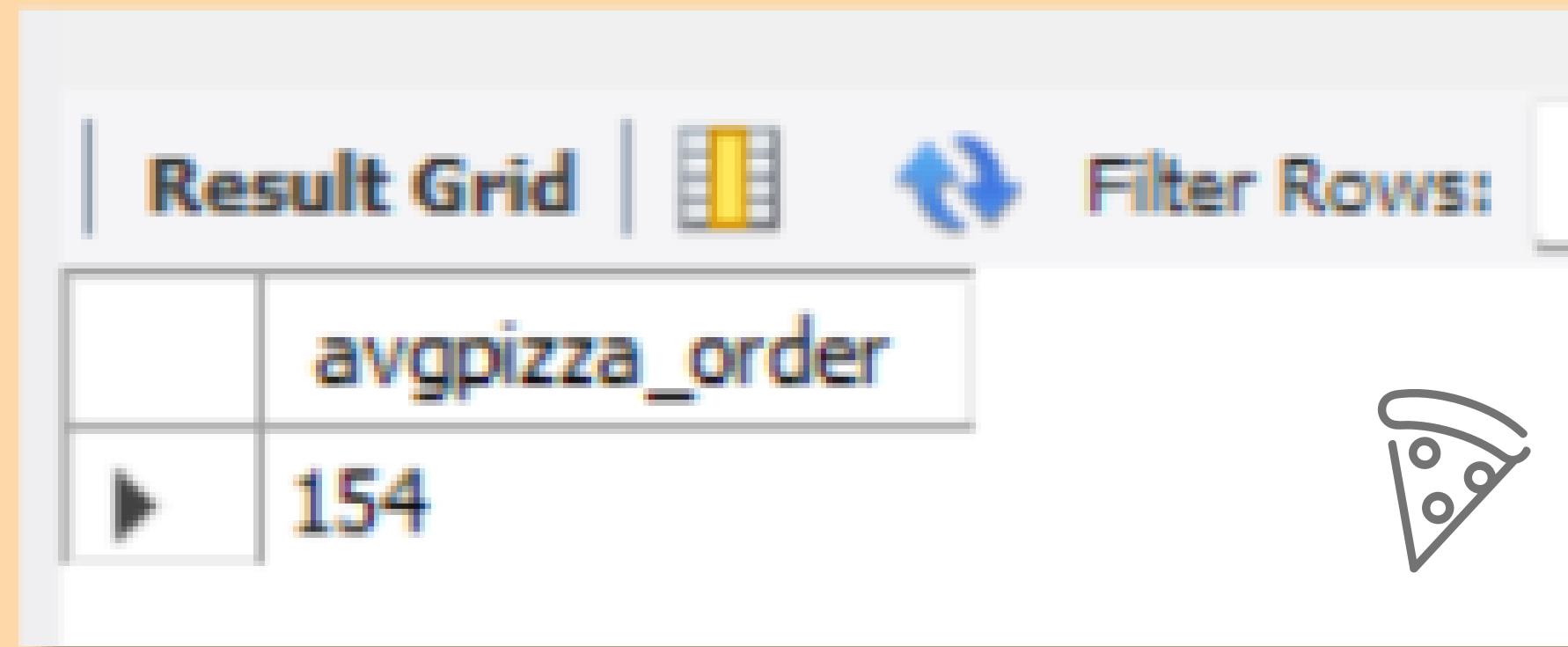
	hour	order_count
▶	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336
	18	2399
	19	2009
	20	1642
	21	1198
	22	663

Result 2 ×

An illustration of a magnifying glass with a black frame and handle, focused on a single slice of the pizza shown in the table above.

# Group The Orders By Date & Calculate The Average Number Of Pizzas Ordered Per Day

```
select round(avg(quantity),0) as avgpizza_order  
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;
```



# Identify The Most Common Pizza Size Ordered

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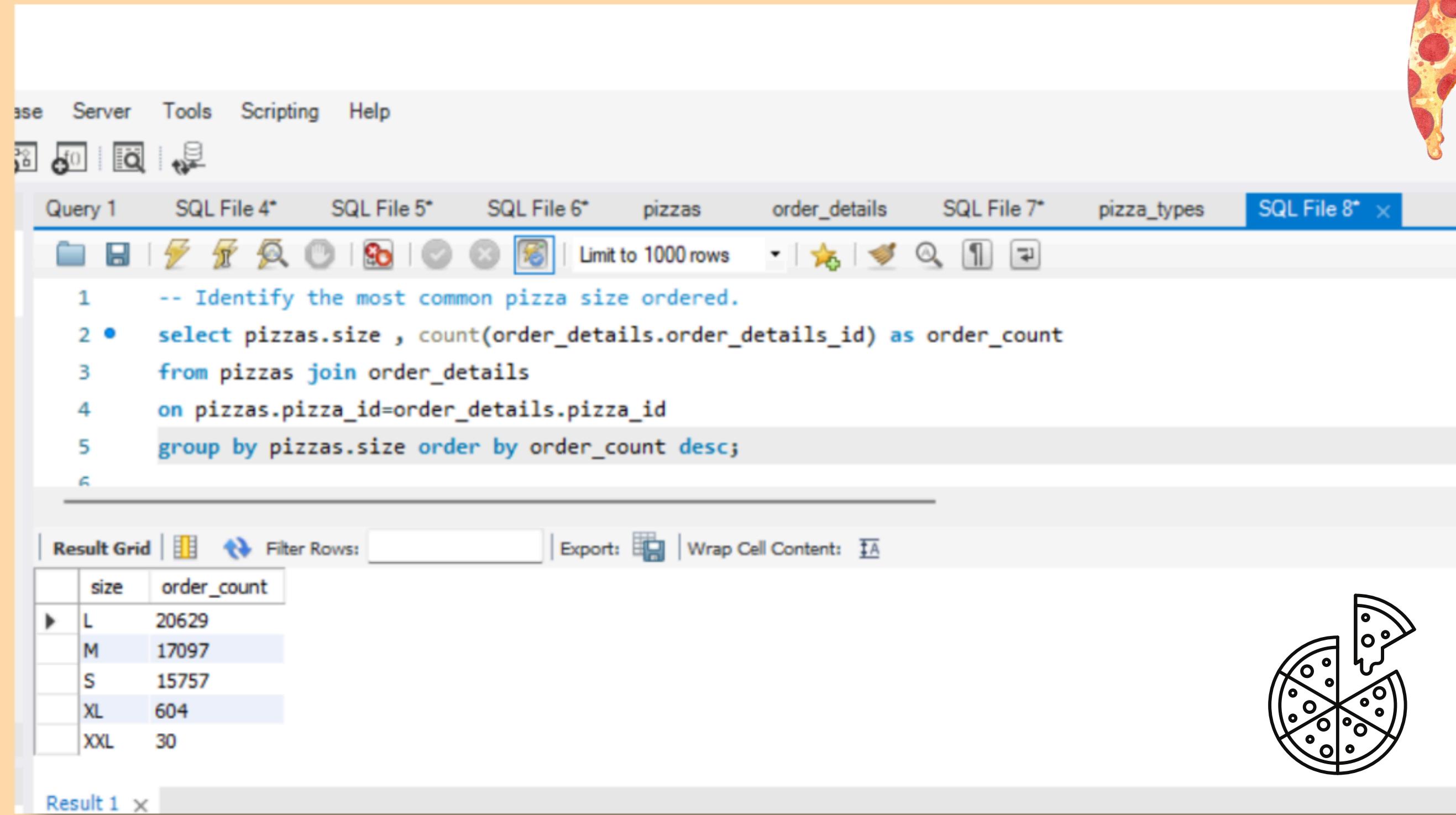
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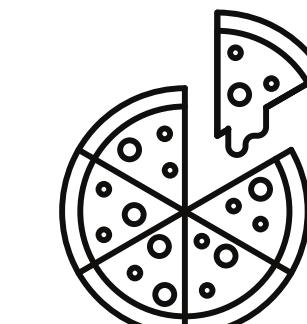
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```
-- Identify the most common pizza size ordered.  
• select pizzas.size , count(order_details.order_details_id) as order_count  
  from pizzas join order_details  
    on pizzas.pizza_id=order_details.pizza_id  
  group by pizzas.size order by order_count desc;
```

size	order_count
L	20629
M	17097
S	15757
XL	604
XXL	30



# Analyze The Cumulative Revenue Generated Over Time

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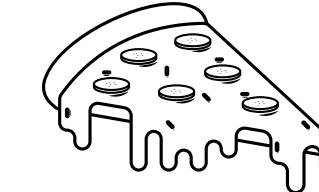
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```
select order_date,  
       sum(revenue) over (order by order_date) as cum_revenue  
  from  
    (select orders.order_date,  
           sum(order_details.quantity * pizzas.price) as revenue  
      from order_details join pizzas  
        on 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	5427.7
	2015-01-02	10891.5
	2015-01-03	16216.3
	2015-01-04	19727.2
	2015-01-05	23859.1
	2015-01-06	28717
	2015-01-07	33121.4
	2015-01-08	38798.1
	2015-01-09	43052.799999999996
	2015-01-10	47980.7
	2015-01-11	51725.299999999996
	2015-01-12	55563.399999999994

# Determine The Top 3 Most Ordered Pizza Types Based On Revenue For Each Pizza Category

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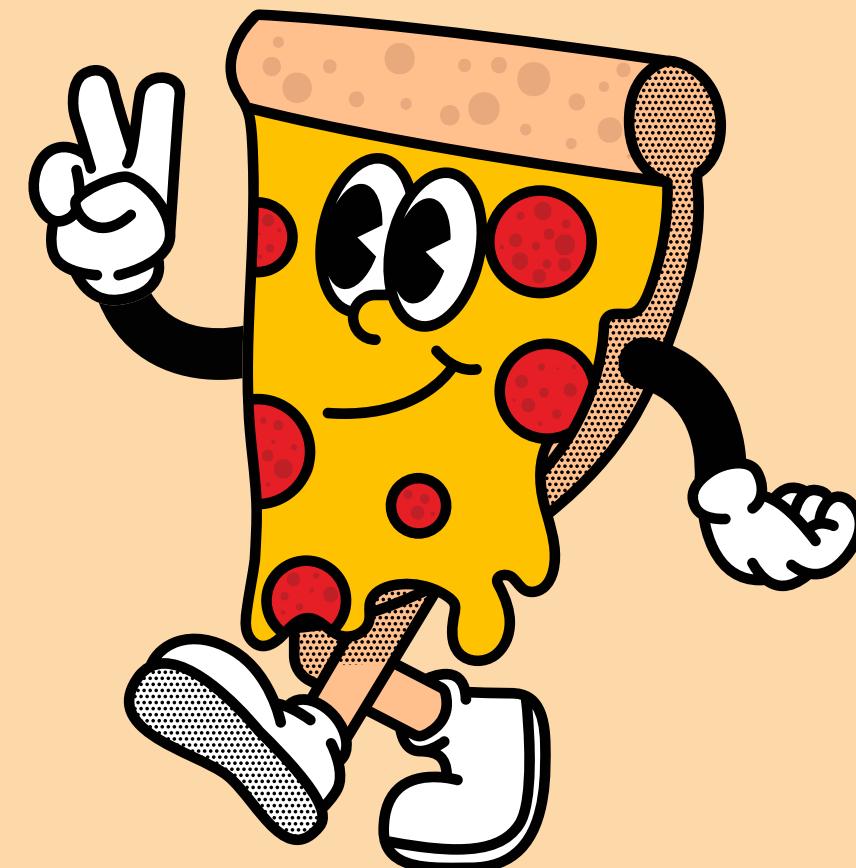
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```
select name, revenue
from
(select category , name , revenue ,
rank () over(partition by category order by revenue desc) as rn
from
(select pizza_types.category,pizza_types.name ,
sum((order_details.quantity) * pizzas.price) as revenue
from pizza_types 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 orderpizza) as b
where rn<=3;
```



Result Grid		Filter Rows:	Export:
			Wrap C
	name	revenue	
▶	The Thai Chicken Pizza	47993	
	The Barbecue Chicken Pizza	47746	
	The California Chicken Pizza	46114.25	
	The Classic Deluxe Pizza	42006.5	
	The Hawaiian Pizza	35560.25	
	The Pepperoni Pizza	34003.25	
	The Spicy Italian Pizza	38729.75	
	The Italian Supreme Pizza	37483.25	
	The Sicilian Pizza	34720.75	
	The Four Cheese Pizza	35804.80000000032	
	The Mexicana Pizza	29743	
	The Five Cheese Pizza	29341	

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**Thank  
you**

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