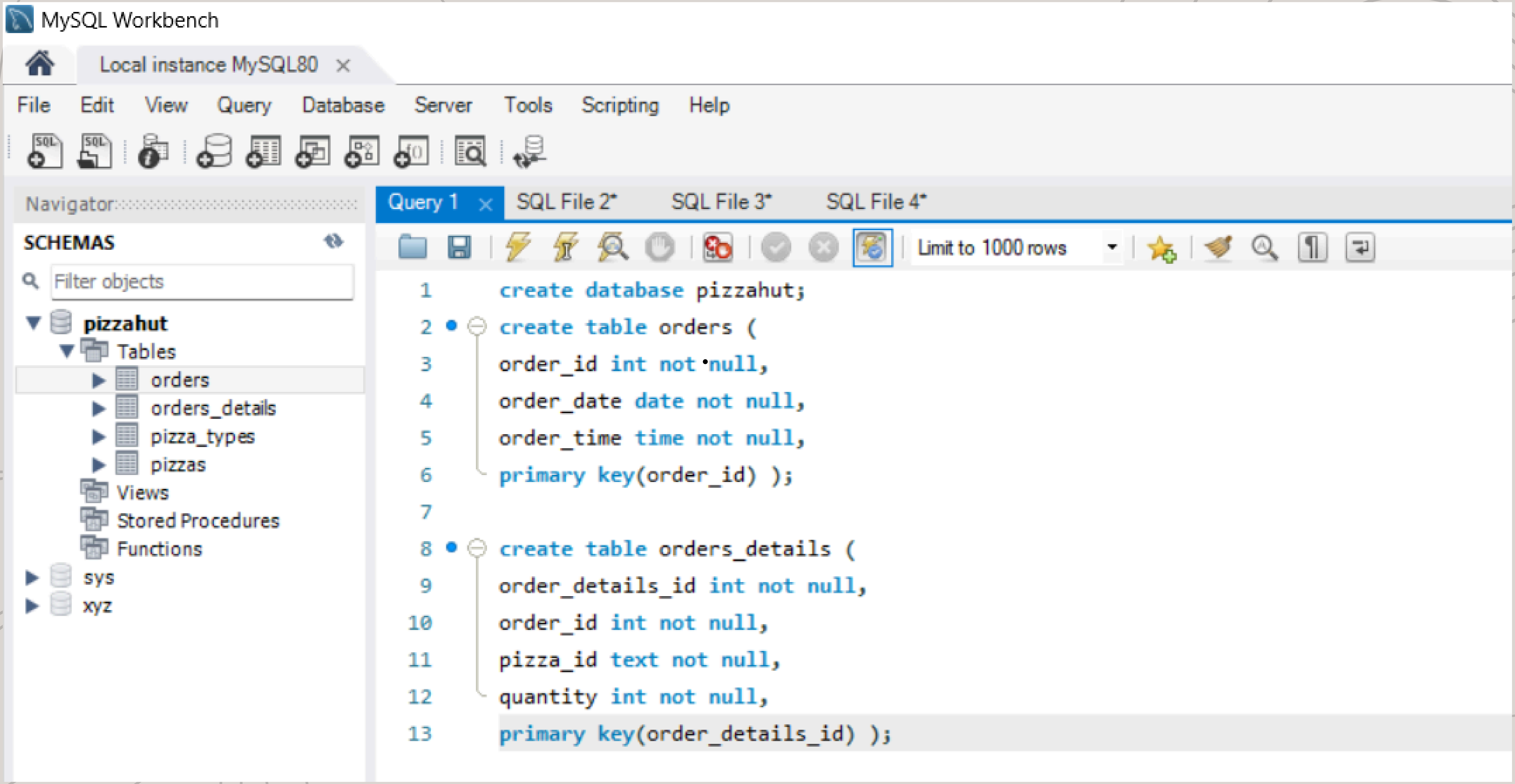
sql project on pizza sales

By smile

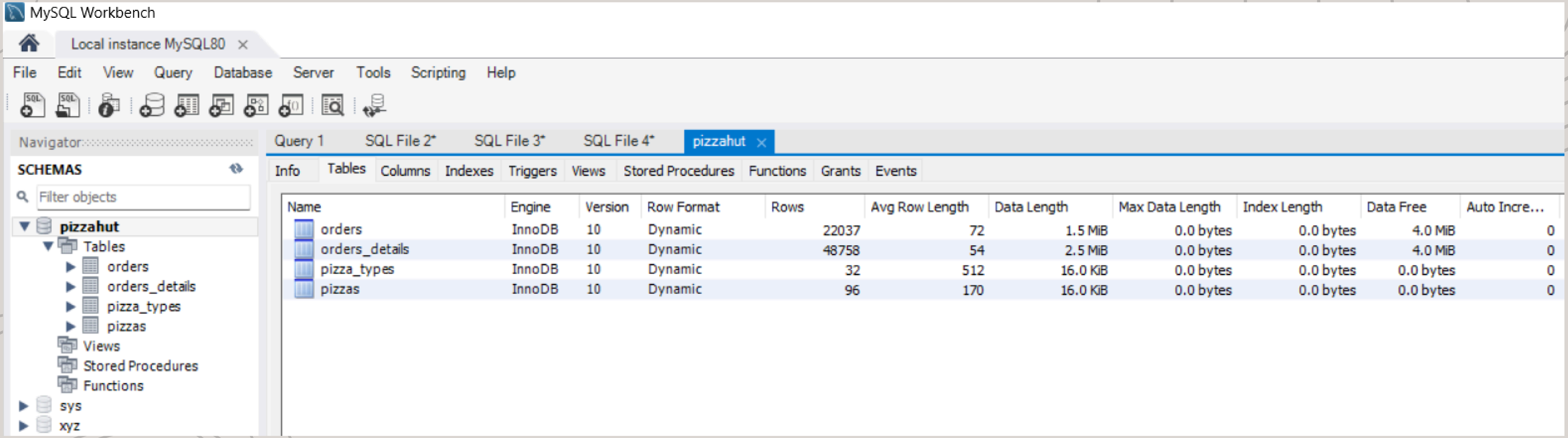
Introduction

Hello, my name is smile and in this project I utilize SQL queries to solve questions that were related to pizza sales.



```sql
create database pizzahut;
create table orders (
order_id int not null,
order_date date not null,
order_time time not null,
primary key(order_id) );

create table orders_details (
order_details_id int not null,
order_id int not null,
pizza_id text not null,
quantity int not null,
primary key(order_details_id) );
```



Name	Engine	Version	Row Format	Rows	Avg Row Length	Data Length	Max Data Length	Index Length	Data Free	Auto Incre...
orders	InnoDB	10	Dynamic	22037	72	1.5 MiB	0.0 bytes	0.0 bytes	4.0 MiB	0
orders_details	InnoDB	10	Dynamic	48758	54	2.5 MiB	0.0 bytes	0.0 bytes	4.0 MiB	0
pizza_types	InnoDB	10	Dynamic	32	512	16.0 KiB	0.0 bytes	0.0 bytes	0.0 bytes	0
pizzas	InnoDB	10	Dynamic	96	170	16.0 KiB	0.0 bytes	0.0 bytes	0.0 bytes	0

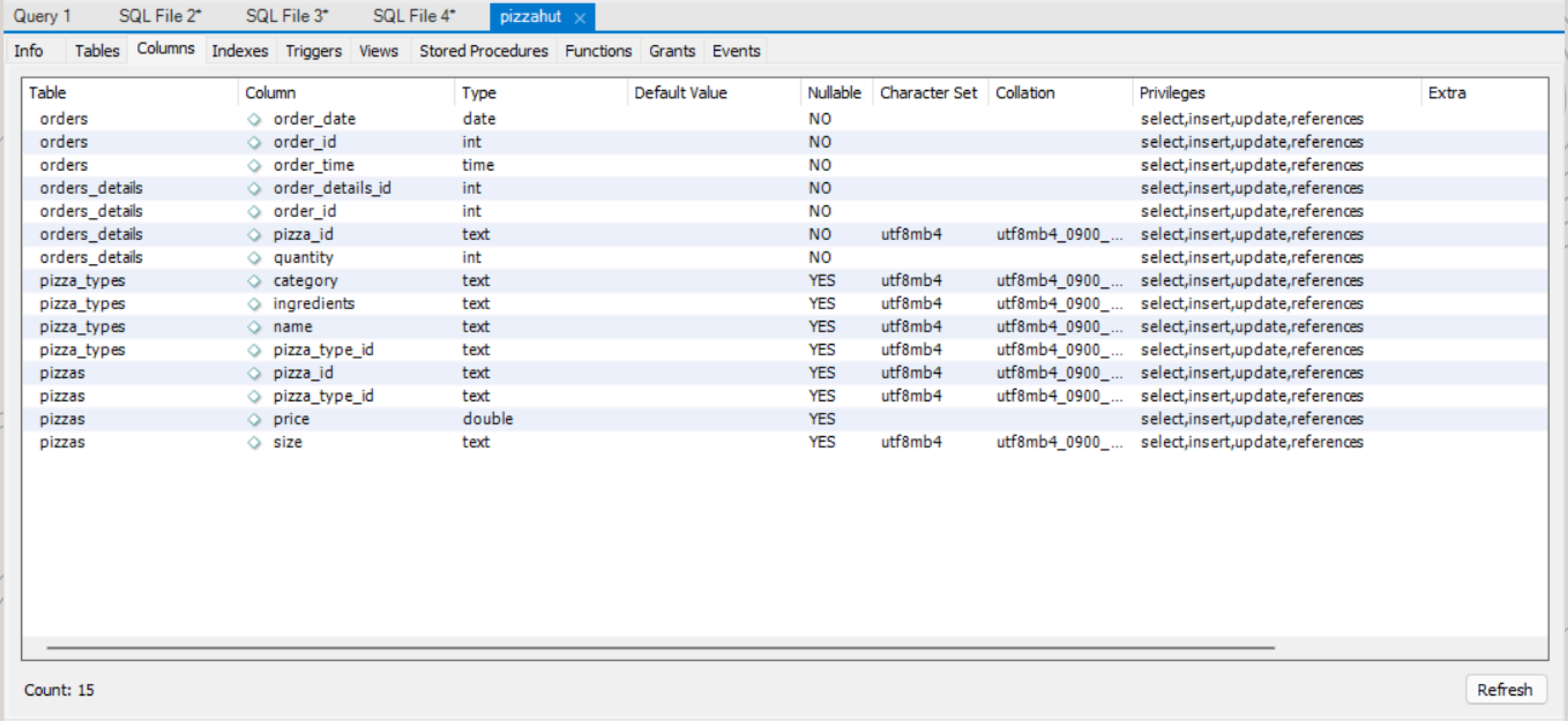


Table	Column	Type	Default Value	Nullable	Character Set	Collation	Privileges	Extra
orders	◇ order_date	date		NO			select,insert,update,references	
orders	◇ order_id	int		NO			select,insert,update,references	
orders	◇ order_time	time		NO			select,insert,update,references	
orders_details	◇ order_details_id	int		NO			select,insert,update,references	
orders_details	◇ order_id	int		NO			select,insert,update,references	
orders_details	◇ pizza_id	text		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references	
orders_details	◇ quantity	int		NO			select,insert,update,references	
pizza_types	◇ category	text		YES	utf8mb4	utf8mb4_0900_...	select,insert,update,references	
pizza_types	◇ ingredients	text		YES	utf8mb4	utf8mb4_0900_...	select,insert,update,references	
pizza_types	◇ name	text		YES	utf8mb4	utf8mb4_0900_...	select,insert,update,references	
pizza_types	◇ pizza_type_id	text		YES	utf8mb4	utf8mb4_0900_...	select,insert,update,references	
pizzas	◇ pizza_id	text		YES	utf8mb4	utf8mb4_0900_...	select,insert,update,references	
pizzas	◇ pizza_type_id	text		YES	utf8mb4	utf8mb4_0900_...	select,insert,update,references	
pizzas	◇ price	double		YES			select,insert,update,references	
pizzas	◇ size	text		YES	utf8mb4	utf8mb4_0900_...	select,insert,update,references	

Count: 15

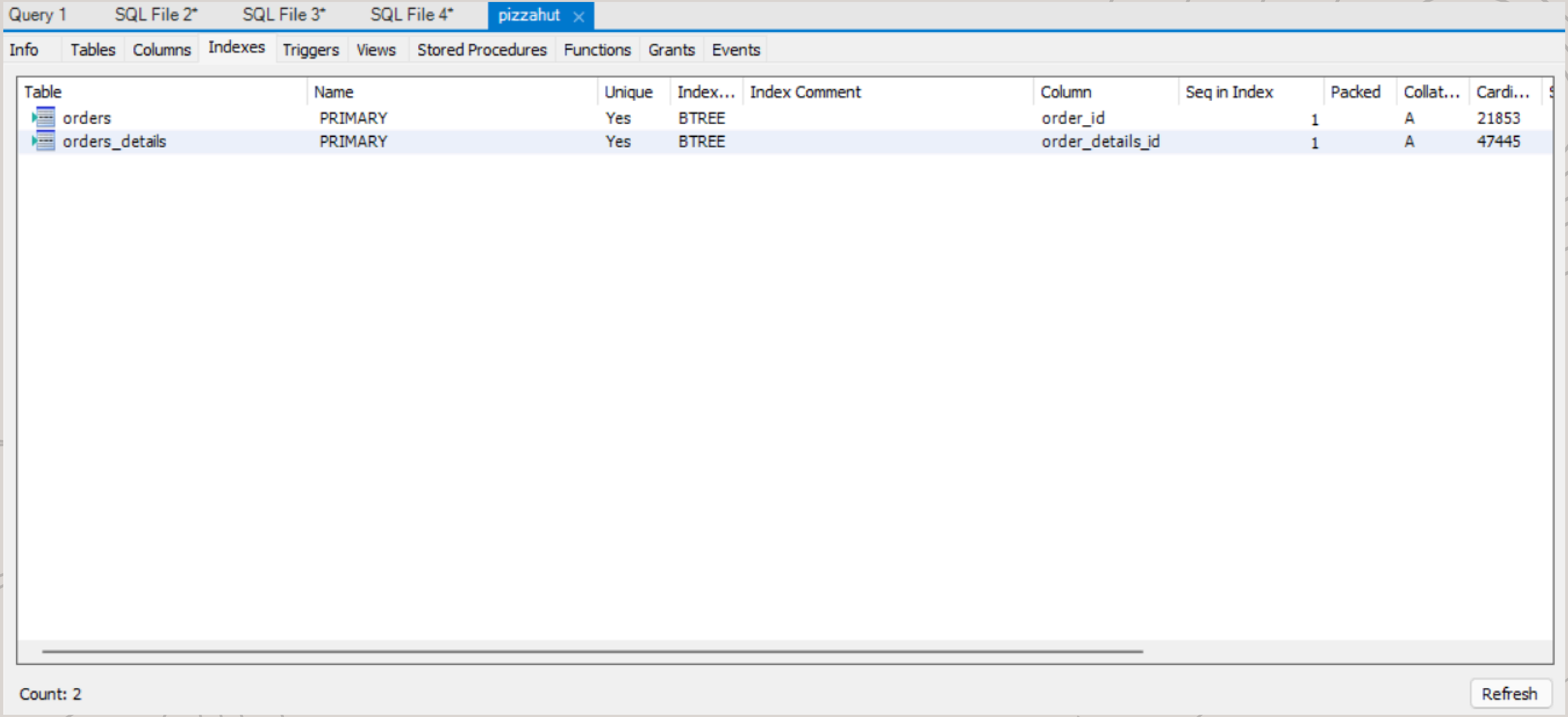


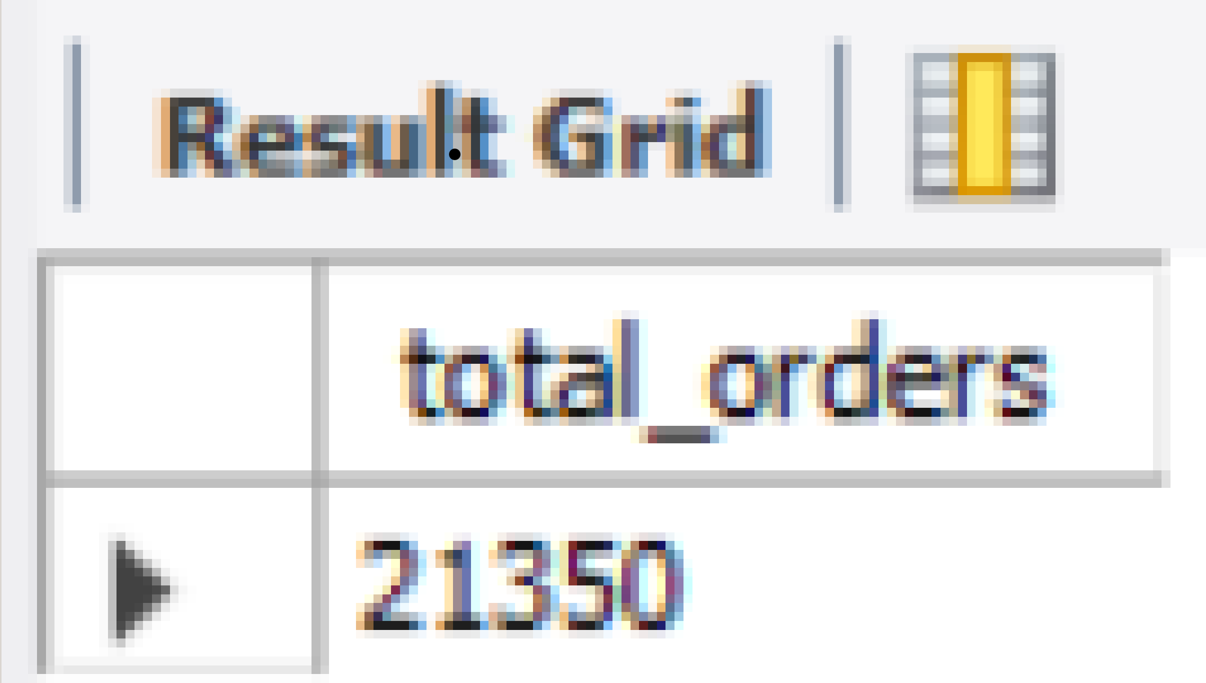
Table	Name	Unique	Index...	Index Comment	Column	Seq in Index	Packed	Collat...	Cardi...
orders	PRIMARY	Yes	BTREE		order_id	1		A	21853
orders_details	PRIMARY	Yes	BTREE		order_details_id	1		A	47445

Count: 2

Questions

-- Retrieve the total number of orders placed.

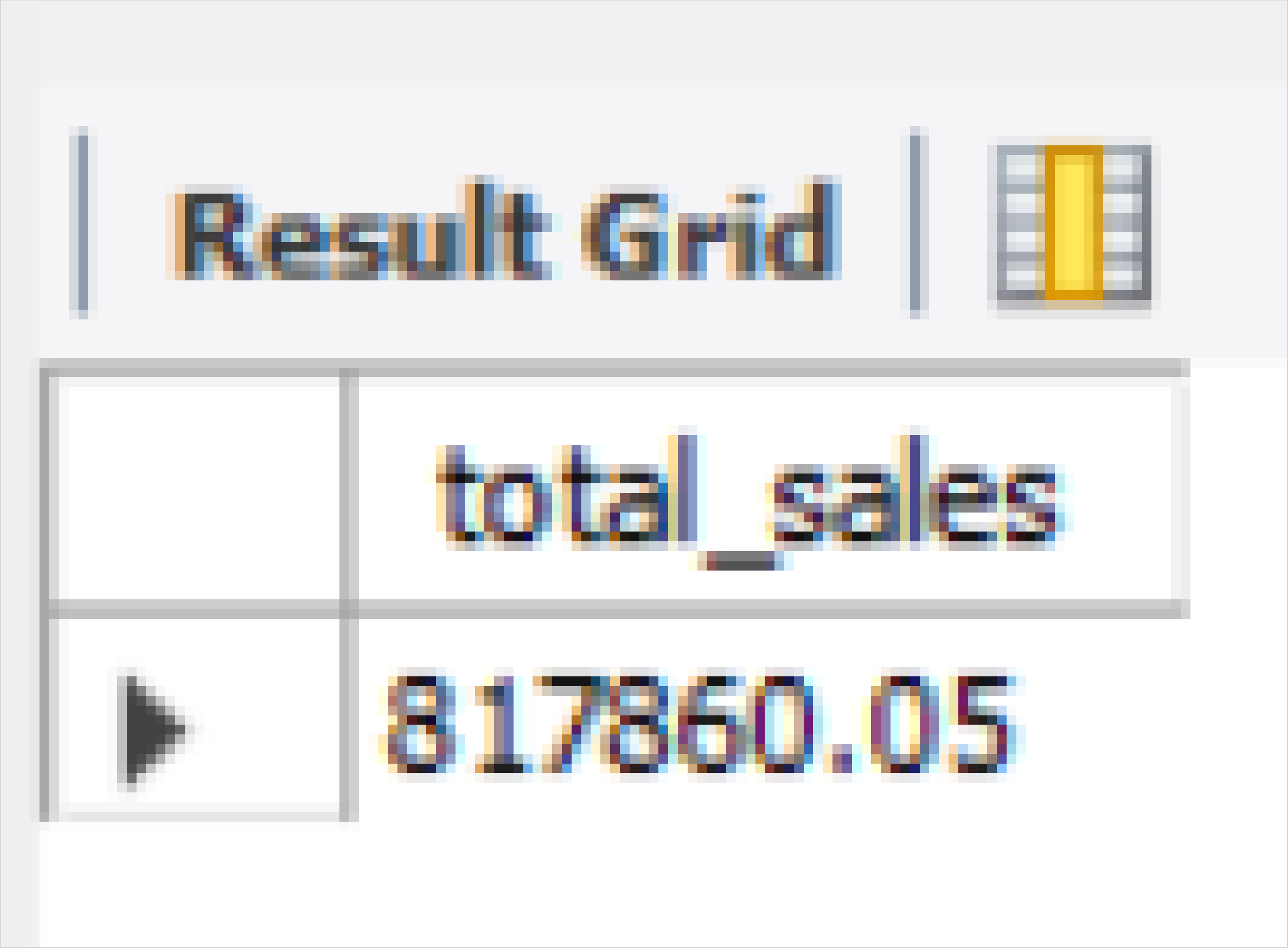
```
select count(order_id) as total_orders from orders;
```



	total_orders
▶	21350

-- Calculate the total revenue generated from pizza sales.

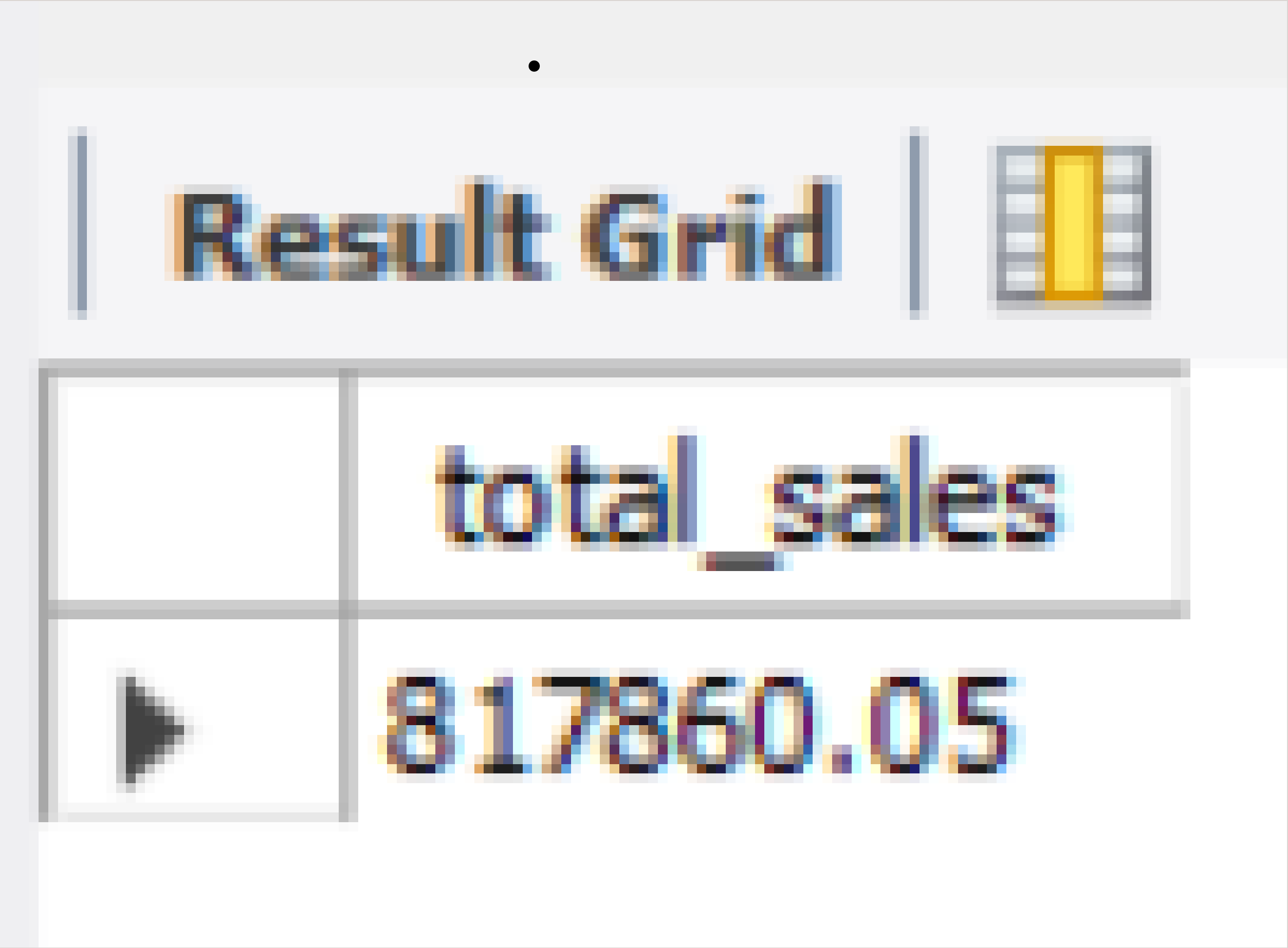
```
SELECT
ROUND(SUM(orders_details.quantity * pizzas.price),
2) AS total_sales
FROM
orders_details
JOIN
pizzas ON pizzas.pizza_id = orders_details.pizza_id;
```



```
total_sales
817860.05
```

-- Identify the highest-priced pizza.

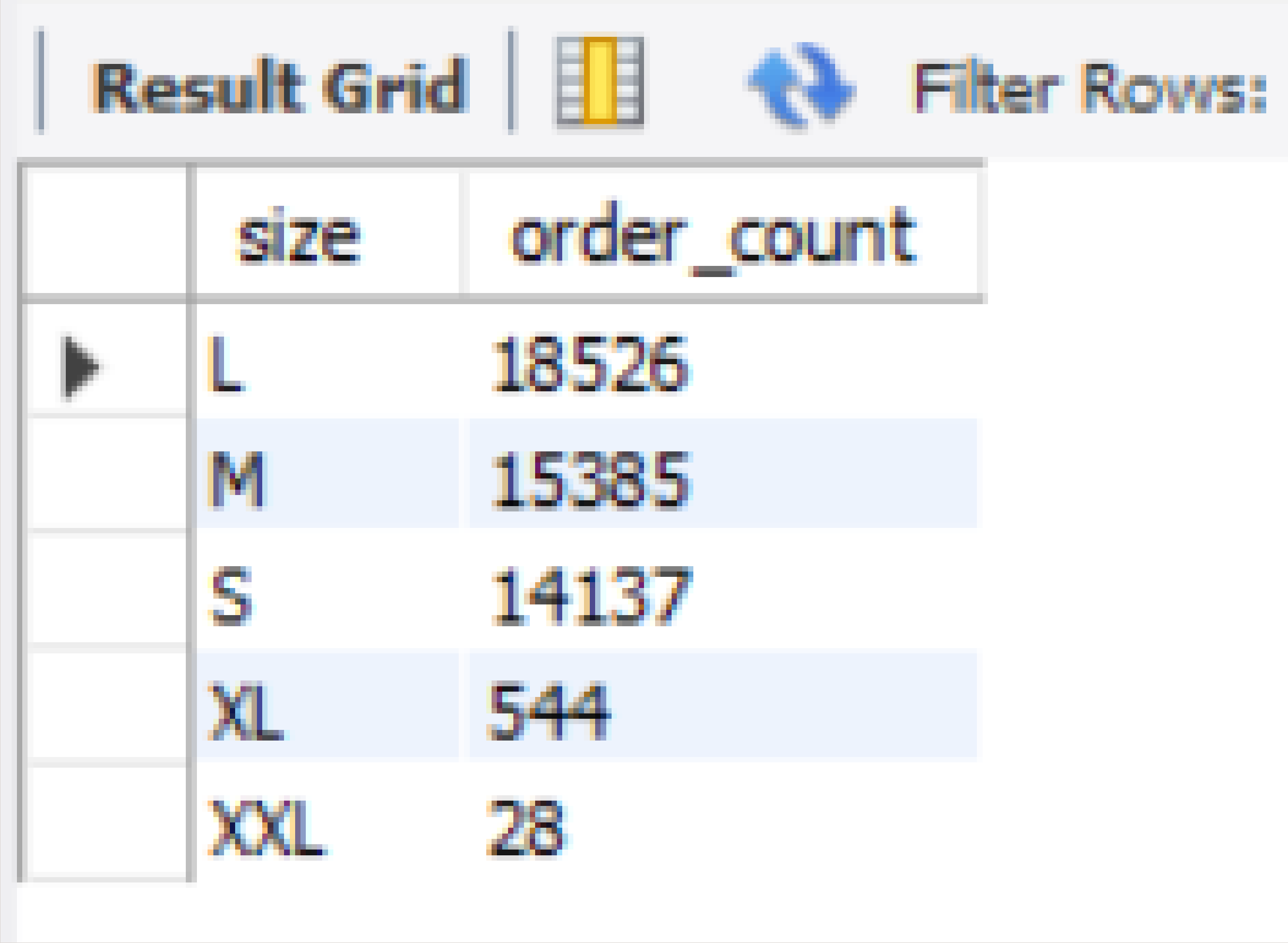
```
select pizzas_types.name, pizza.price
from pizza_types join pizzas
on pizza_types.pizza_type_id=pizza.pizza_type_id
order by pizzas.price desc;
```



	total_sales
▶	817860.05

-- List the most ordered pizza types along with their quantities.

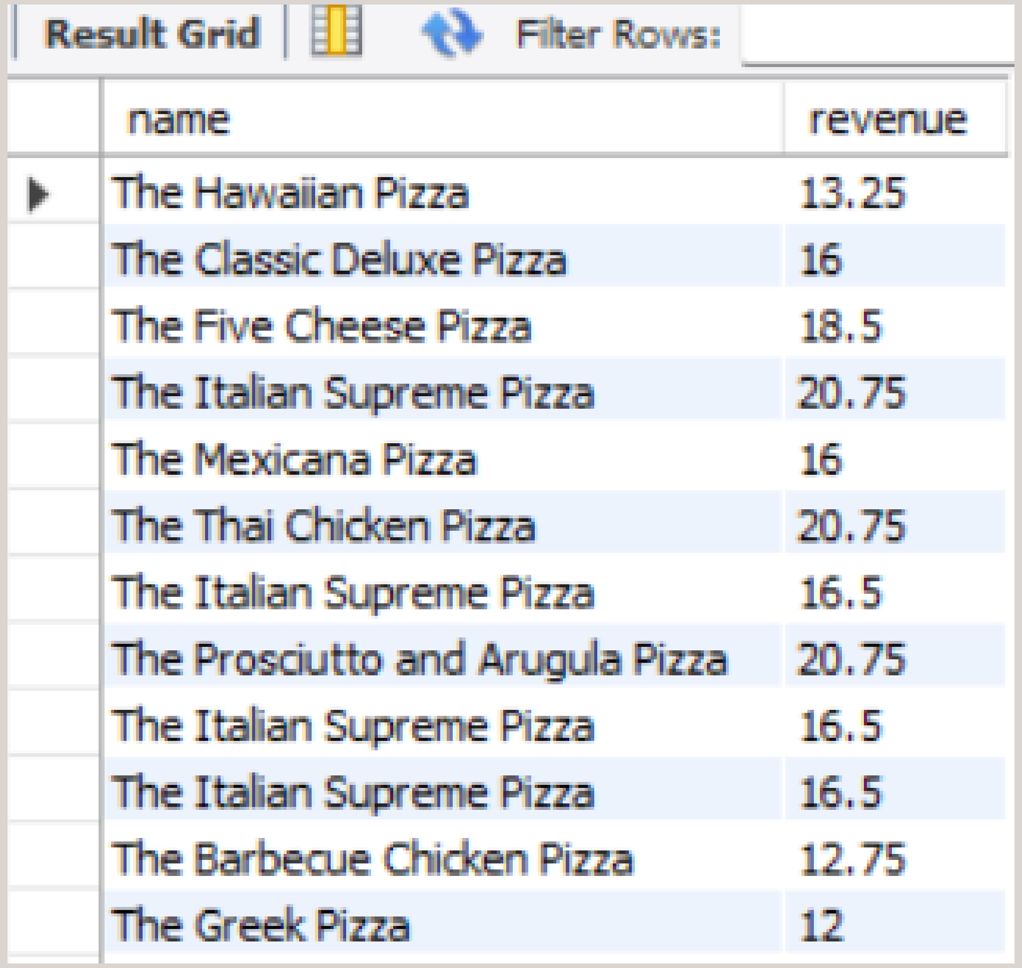
```
select pizza_types.name,
sum( orders_details.quantity)
from pizza_types join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
join orders_details
on orders_details.pizza_id = pizzas.pizza_id
group by pizza_types.name
order by pizza_types.name
;
```



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

-- Determine the most ordered pizza types based on revenue.

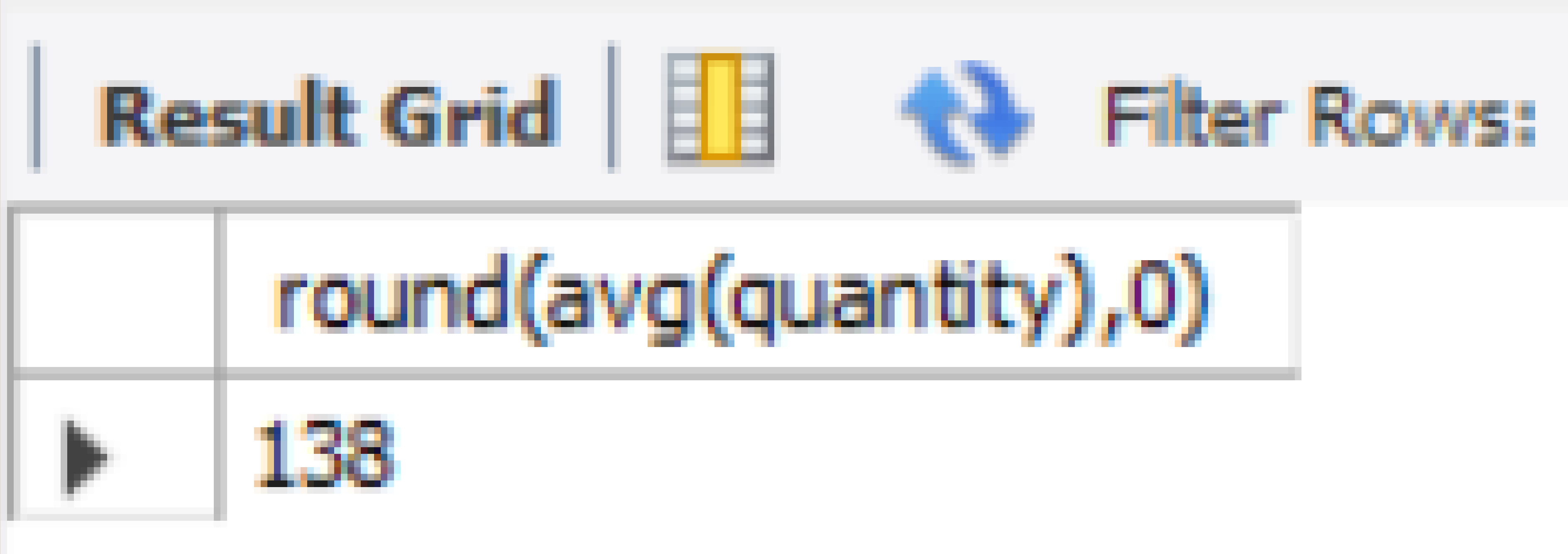
```
select pizza_types.name,
orders_details.quantity * pizzas.price as revenue
from pizza_types join pizzas
on pizzas.pizza_type_id = pizza_types.pizza_type_id
join orders_details
on orders_details.pizza_id = pizzas.pizza_id;
```



name	revenue
The Hawaiian Pizza	13.25
The Classic Deluxe Pizza	16
The Five Cheese Pizza	18.5
The Italian Supreme Pizza	20.75
The Mexicana Pizza	16
The Thai Chicken Pizza	20.75
The Italian Supreme Pizza	16.5
The Prosciutto and Arugula Pizza	20.75
The Italian Supreme Pizza	16.5
The Italian Supreme Pizza	16.5
The Barbecue Chicken Pizza	12.75
The Greek Pizza	12

-- Group the orders by date and calculate the average number of pizzas ordered per day.

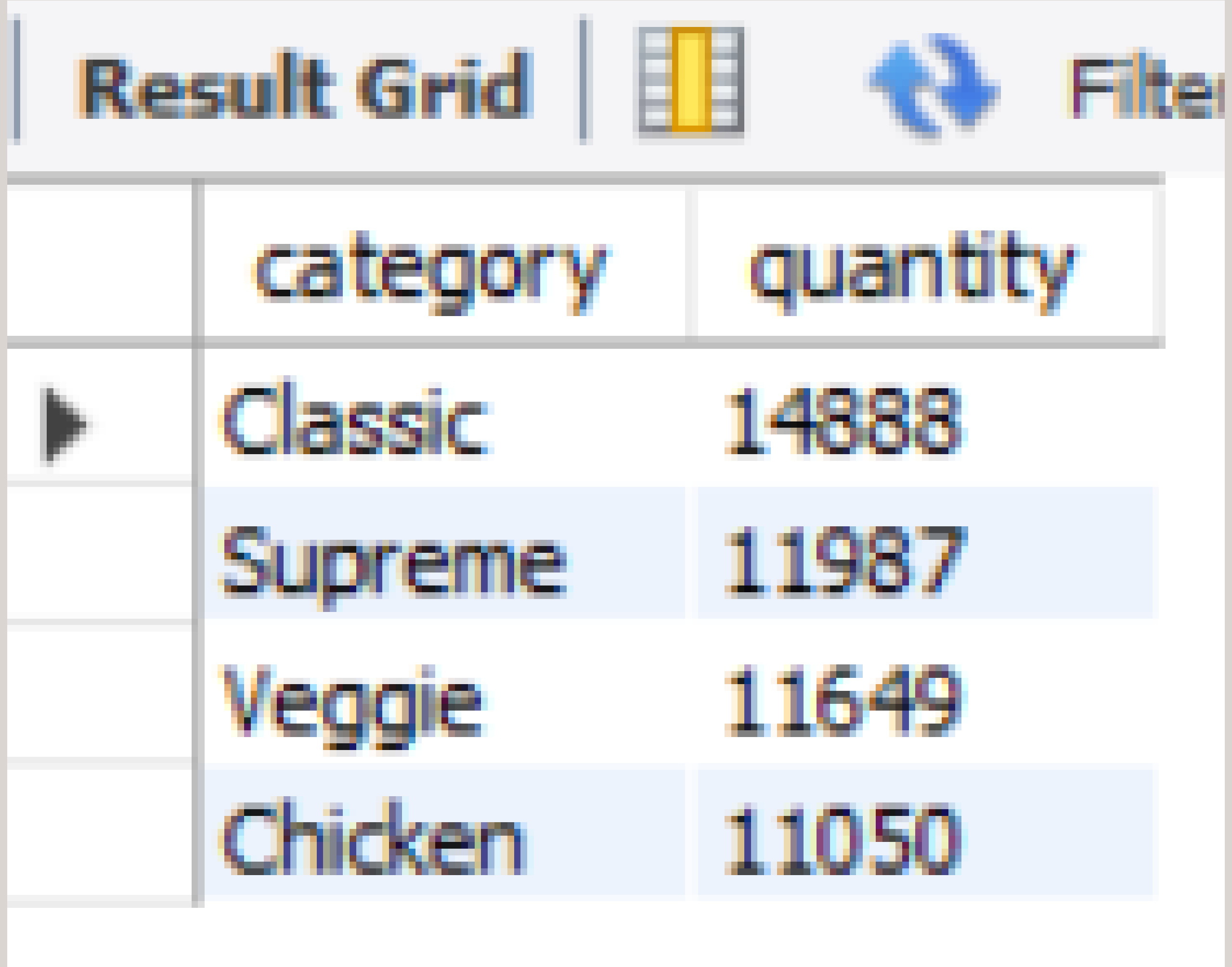
```
select round(avg(quantity),0) from
(select orders.order_date, sum(orders_details.quantity) as quantity
from orders join orders_details
on orders.order_id=orders_details.order_id
group by orders.order_date) AS order_quantity;
```



	round(avg(quantity),0)
▶	138

-- Join the necessary tables to find the total quantity of each pizza category ordered.

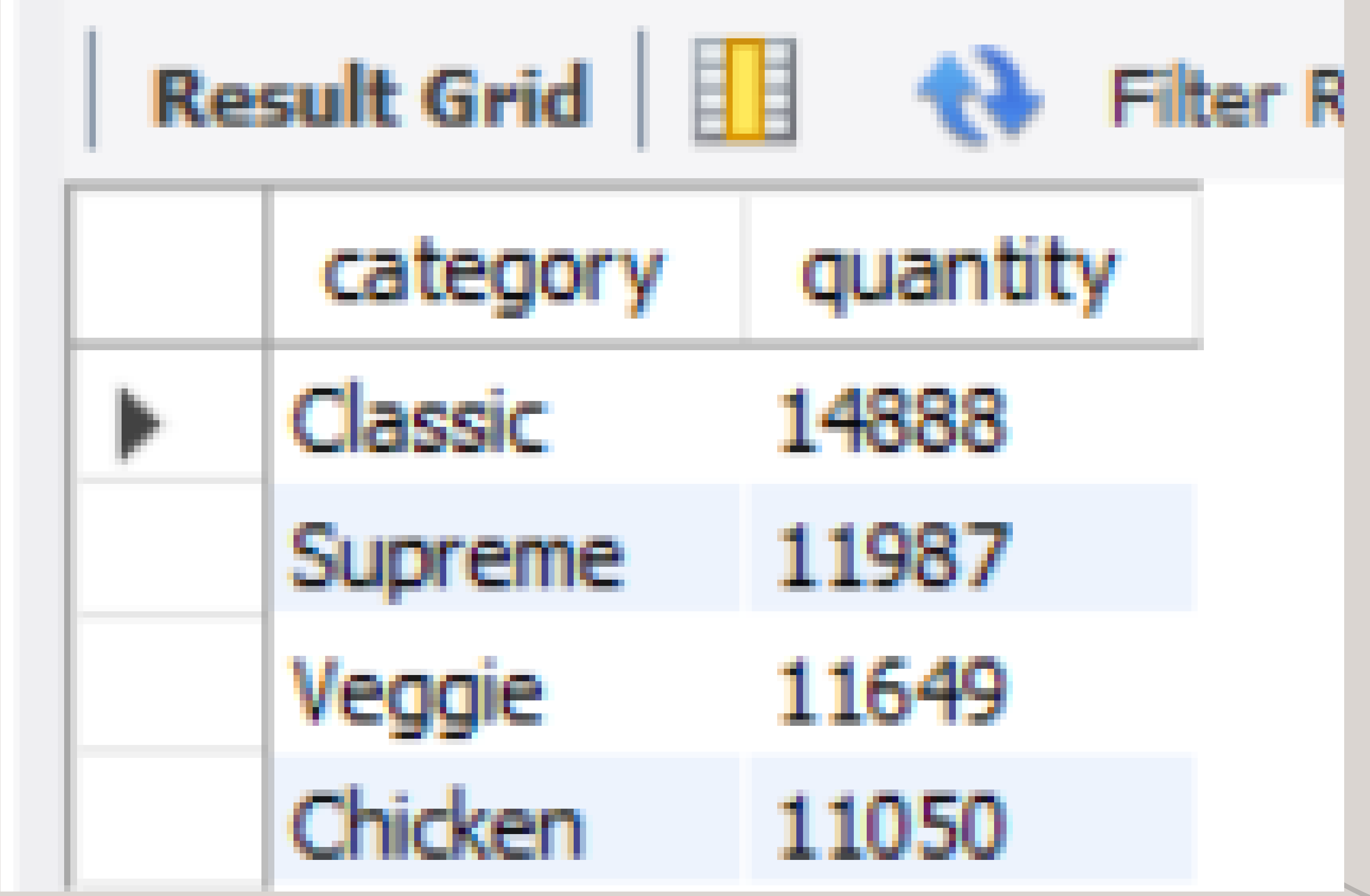
```
select pizza_types.category,
sum(orders_details.quantity) as quantity
from pizza_types join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
join orders_details
on orders_details.pizza_id = pizzas.pizza_id
group by pizza_types.category order by quantity desc;
```



category	quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

-- Determine the distribution of orders by hour of the day.

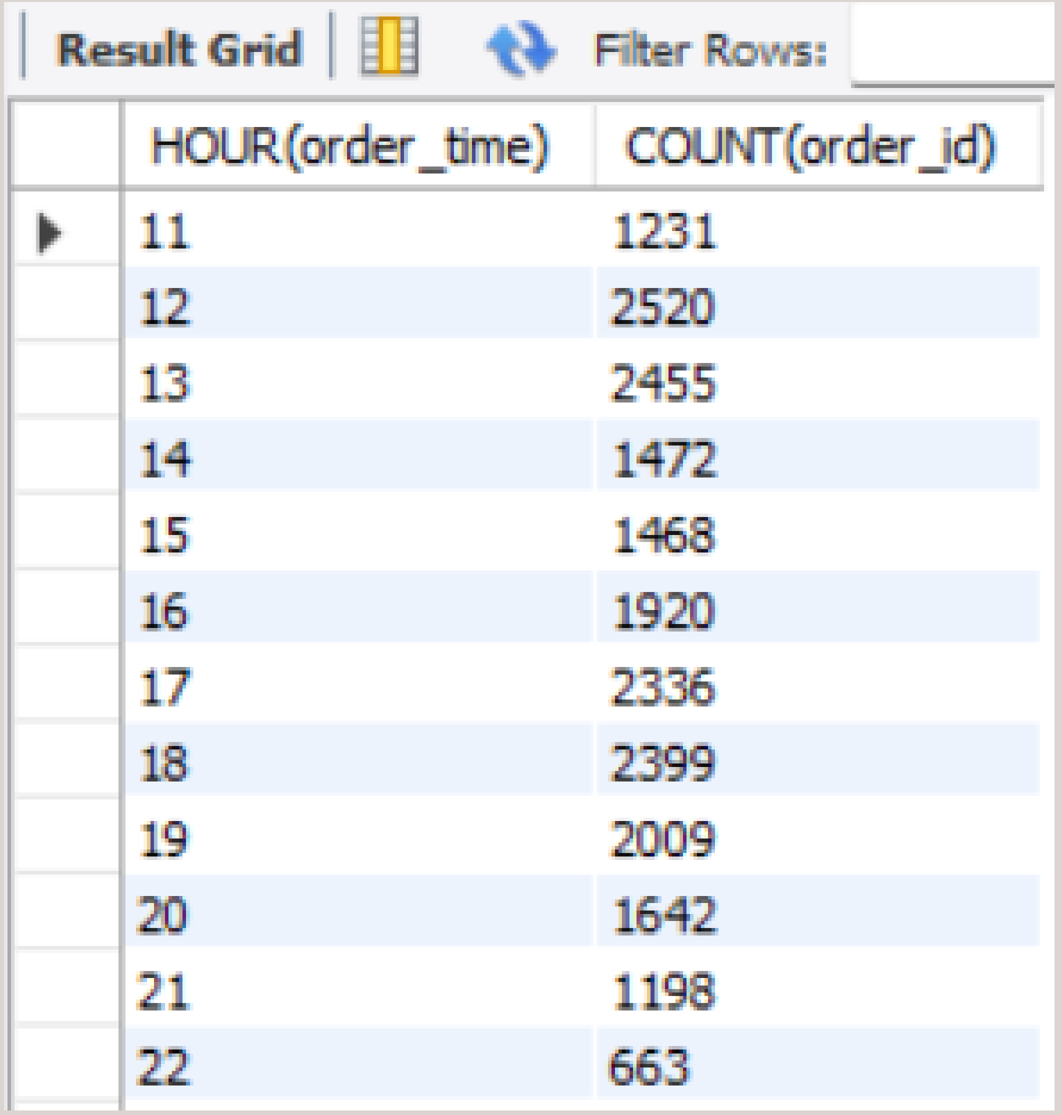
```
SELECT
HOUR(order_time), COUNT(order_id)
FROM
 orders
GROUP BY HOUR(order_time);
```



category	quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

-- Join relevant tables to find the category-wise distribution of pizzas.

```
select category, count(name) from pizza_types
group by category;
```



HOUR(order_time)	COUNT(order_id)
11	1231
12	2520
13	2455
14	1472
15	1468
16	1920
17	2336
18	2399
19	2009
20	1642
21	1198
22	663

Thank You

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