

Analyzing
Pizza
Sales Through
Sql



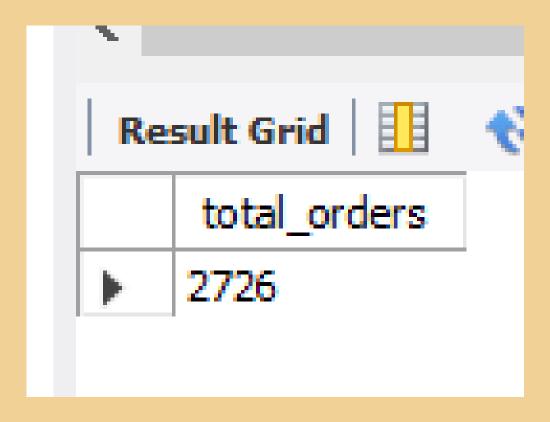
#### Schema

```
create database pizzajunction;
create table orders (
order id integer not null,
order date date not null,
order time time not null,
constraint pk id primary key(order id) );
create table order details (
order details id integer not null,
order id integer not null,
pizza id text not null,
quantity integer not null,
constraint pk_details primary key(order_details_id) );
```

# Retrieve the total number of orders placed.

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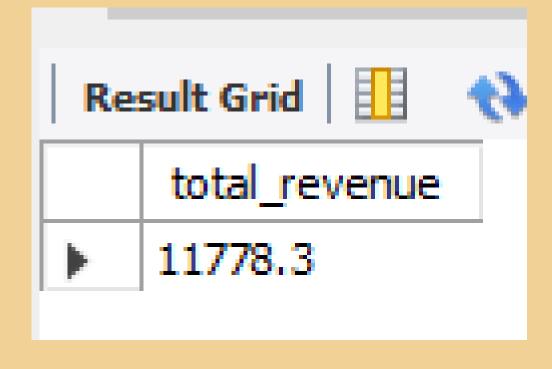
select count(order_id) as total_orders from orders;
```



# Calculate the total revenue generated from pizza sales.

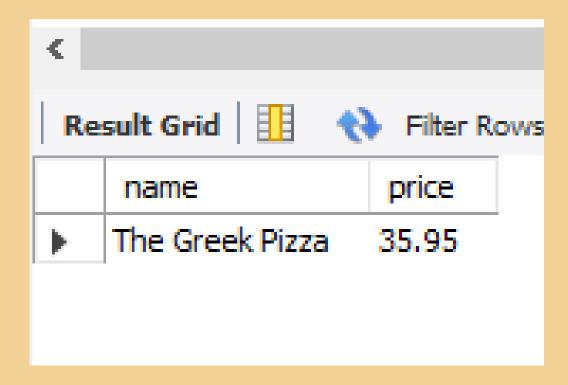
```
-- Calculate the total revenue generated from pizza sales.

select
sum(order_details.quantity*pizzas.price) as total_revenue
from order_details join pizzas
on pizzas.pizza_id = order_details.pizza_id
```



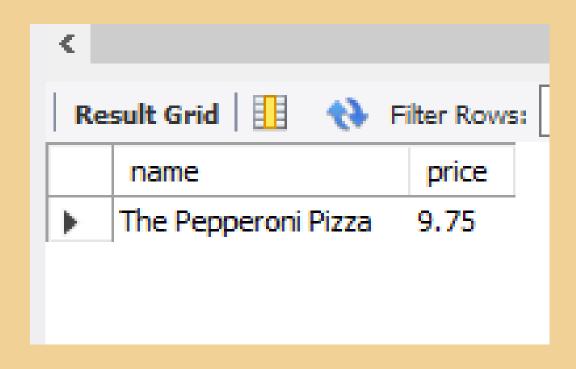
# Identify the highest-priced pizza along with its price.

```
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;
```



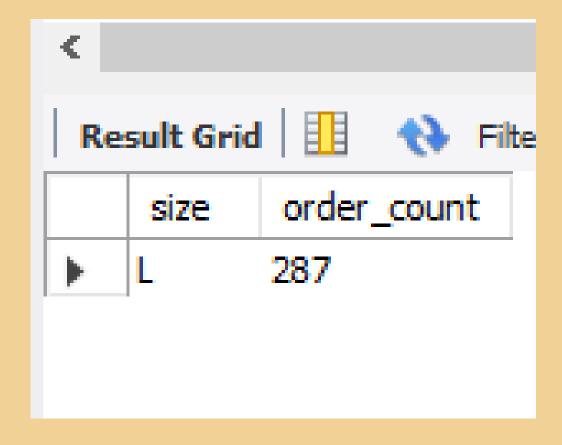
# Identify the lowest-priced pizza along with its price.

```
select pizza_types.name,pizzas.price
from pizza_types join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
WHERE price = (SELECT MIN(price) FROM pizzas);
```



#### 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 limit 1;
```



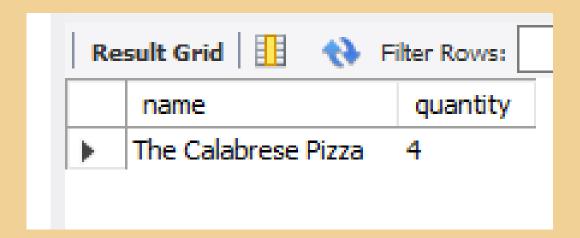
# List the top 5 most ordered pizza types along with their quantities.

```
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			
	name	quantity	
<b>)</b>	The Barbecue Chicken Pizza	40	
	The Italian Supreme Pizza	38	
	The Thai Chicken Pizza	36	
	The Pepperoni Pizza	36	
	The California Chicken Pizza	34	

# Identify the least ordered pizza types along with its quantity.

```
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 asc limit 1;
```



# 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;
```

Result Grid 🔢 🙌 Filt		
	category	quantity
•	Classic	207
	Supreme	170
	Chicken	167
	Veggie	162

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

```
count(order_time) as hours,count(order_id) as orders from orders
```

group by hour(order\_time);

Result Grid		
	hours	orders
•	11	159
	12	304
	13	291
	14	238
	15	187
	16	234
	17	302
	18	301
	19	250
	20	223

	21	152
	22	84
	23	1
Query Output		

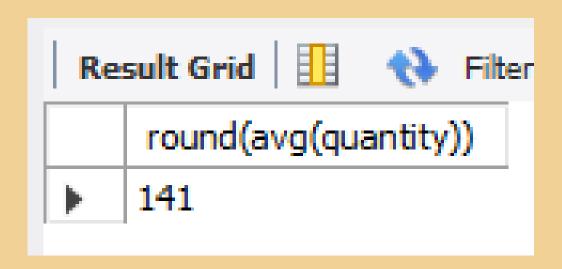
# Join relevant tables to find the category-wise distribution of pizzas.

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

Result Grid		
	category	pizza_count
•	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)) 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;
```



#### Determine the top 3 most ordered pizza types based on revenue.

```
select pizza_types.name,
sum(order_details.quantity*pizzas.price) as revenue
from 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;
```

Result Grid			
	name	re	evenue
<b>)</b>	The Barbecue Chicken Pizza 726		
	The Italian Supreme Pizza		79
	The Thai Chicken Pizza		57
	-		

# 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))
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;
```

Result Grid 🔢 🙌 Filt			
	category	revenue	
•	Classic	25.77	
	Chicken	25.55	
	Supreme	25.32	
	Veggie	23.36	

# Analyze the cumulative revenue generated over time.

```
select order_date,round(sum(revenue) over(order by order_date),1)
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;
```

Re	sult Grid   🏢	Note: Filter Rows
	order_date	cum_revenue
•	2015-01-01	2713.9
	2015-01-02	5445.8
	2015-01-03	8108.2
	2015-01-04	9863.6
	2015-01-05	11778.3