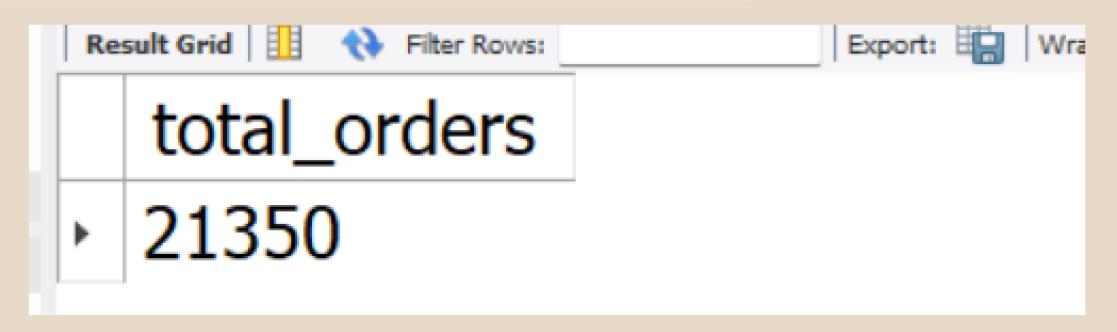
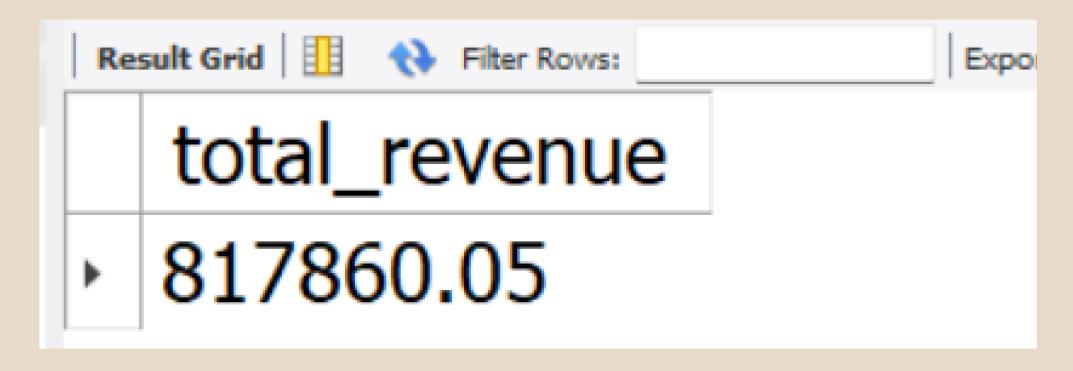
# Pizza Sales Analysis

#### 1.Retrieve the total number of orders placed.

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



#### 2. Calculate the total revenue generated from pizza sales



### 3.Identify the highest-priced pizza.

	name	price
Þ	The Greek Pizza	35.95

### 4. Identify the most common pizza size ordered

```
SELECT
    pizzas.size,
    COUNT(order_details.order_details_id) AS total_orders
FROM
    pizzas
        JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY 1
ORDER BY 2 DESC
LIMIT 1;
```

```
size total_orders
L 18526
```

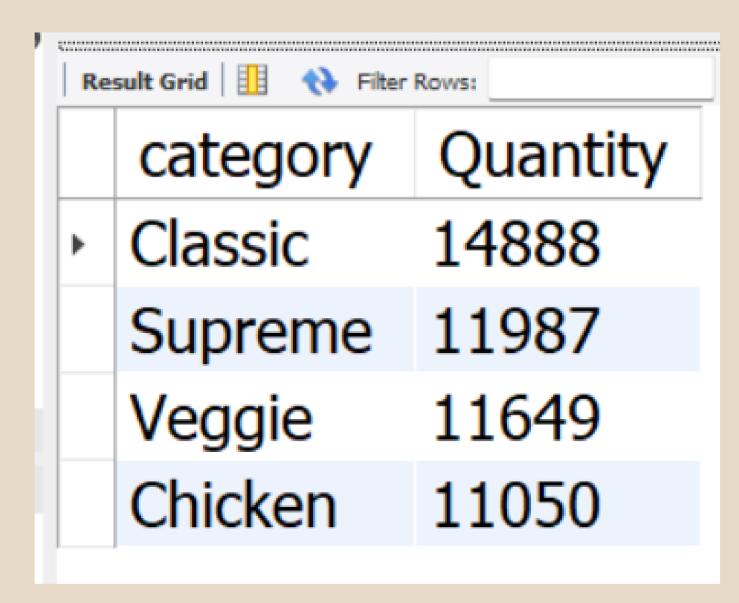
## 5.List the top 5 most ordered pizza types along with their quantities.

```
SELECT
    pizza types.name,
    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 1 , 2
ORDER BY 3 DESC
```

Result Grid   1			
	name	category	Quantity
•	The Classic Delux	Classic	2453
	The Barbecue Chi	Chicken	2432
	The Hawaiian Pizza	Classic	2422
	The Pepperoni Pi	Classic	2418
	The Thai Chicken	Chicken	2371
	The Hawaiian Pizza The Pepperoni Pi	Classic Classic	2422 2418

## 6.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 1
ORDER BY 2 DESC;
```



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

```
SELECT
   HOUR(order_time), COUNT(order_id) AS total_orders
FROM
   orders
GROUP BY 1;
```

Result Grid   H		Export: 📳   Wrap Cell Co
	hour(order_time)	total_orders
•	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336
	18	2399
	19	2009

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

```
SELECT

AVG(total_quantity) AS avg_quantity_per_day

FROM

(SELECT

orders.order_date,

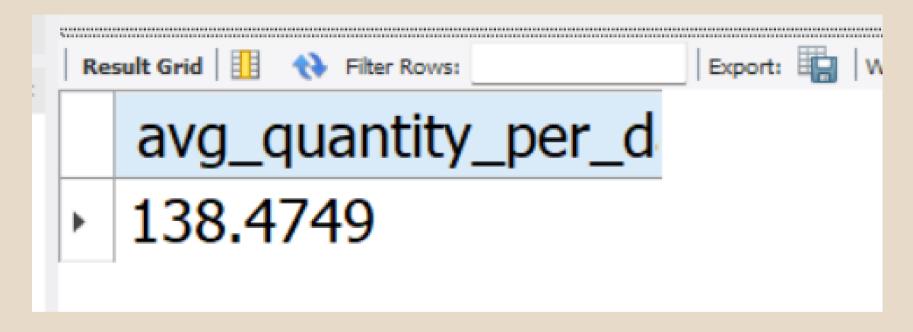
SUM(order_details.quantity) AS total_quantity

FROM

orders

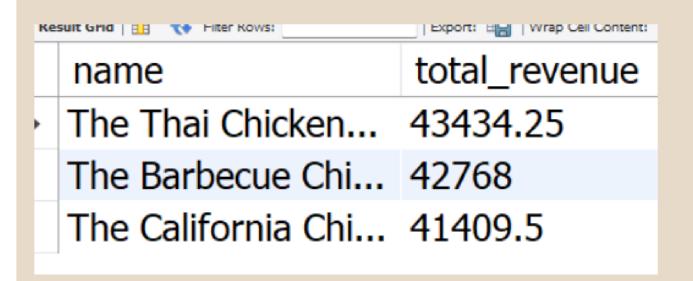
JOIN order_details ON orders.order_id = order_details.order_id

GROUP BY 1) AS quantity
```



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

```
SELECT
    pizza_types.name,
    ROUND(SUM(order_details.quantity * pizzas.price),
            2) AS total_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 1
ORDER BY 2 DESC
LIMIT 3;
```



#### 10. Analyze the cumulative revenue generated over time.

```
Select order date,
round(sum(total_revenue) over(order by order_date),2)
 as cumulative_revenue from
(SELECT
    orders.order_date,
    ROUND(SUM(order_details.quantity * pizzas.price),
            2) AS total 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 1) as sales;
```

ı	Result Grid 🔠 🙌 Filter Rows:	Export: Wrap Cell Content:
	order_date	cumulative_revenue
,	2015-01-01	2713.85
	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

### 11.Determine the top 3 most ordered pizza types based on revenue for each pizza category.

```
Select name, category, total_revenue, rn
from
(select name, category, total_revenue,
rank()over(partition by category order by total_revenue desc) as rn
from
(SELECT
    pizza_types.name, pizza_types.category,
    ROUND(SUM(order_details.quantity * pizzas.price),
            2) AS total_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 1,2) as a) as b
where rn <= 3;
```

	name	category	total_revenue	rn
Þ	The Thai Chicken	Chicken	43434.25	1
	The Barbecue Chi	Chicken	42768	2
	The California Chi	Chicken	41409.5	3
	The Classic Delux	Classic	38180.5	1
	The Hawaiian Pizza	Classic	32273.25	2
	The Pepperoni Pi	Classic	30161.75	3
	The Spicy Italian	Supreme	34831.25	1
	The Italian Supre	Supreme	33476.75	2
	The Sicilian Pizza	Supreme	30940.5	3
	The Four Cheese	Veggie	32265.7	1
	The Mexicana Pizza	Veggie	26780.75	2
	The Five Cheese	Vennie	26066.5	3