

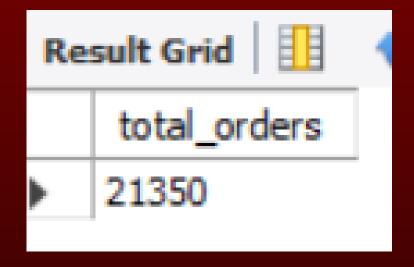
### RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED

```
SELECT

COUNT(order_id) AS total_orders

FROM

orders;
```



#### CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

```
SELECT

ROUND(SUM(order_details.quantity * pizzas.price),

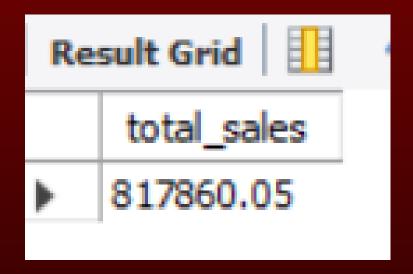
2) AS total_sales

FROM

order_details

JOIN

pizzas ON pizzas.pizza_id = order_details.pizza_id;
```



### IDENTIFY THE HIGHEST-PRICED PIZZA

```
SELECT

name, price

FROM

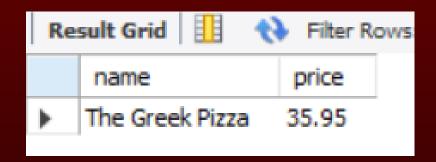
pizza_types

JOIN

pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id

ORDER BY price DESC

LIMIT 1;
```



#### 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;
```

Res	sult Grid		<b>()</b> F
	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
   name, SUM(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 name
ORDER BY quantity DESC
LIMIT 5;
```

Res	Result Grid			
	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
    category, SUM(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 category
ORDER BY quantity DESC;
```

Result Grid 1			
	category	quantity	
*	Classic	14888	
	Supreme	11987	
	Veggie	11649	
	Chicken	11050	

### DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY

```
SELECT

HOUR(order_time) AS hour, COUNT(order_id) AS order_count

FROM

orders

GROUP BY HOUR(order_time);
```

Re	sult Grid	🔢 🙌 Fi
	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
	10	8
	9	1

## JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS

```
SELECT
    category, COUNT(name)
FROM
    pizza_types
GROUP BY category;
```

Result Grid 1			
	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) AS avg_pizza_ordered_per_day

FROM

(SELECT

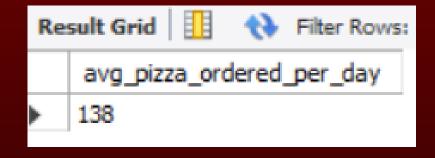
order_date, SUM(quantity) AS quantity

FROM

orders

JOIN order_details ON orders.order_id = order_details.order_id

GROUP BY order_date) AS order_quantity;
```



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

```
SELECT

name, SUM(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 name

ORDER BY revenue DESC

LIMIT 3;
```

Result Grid Filter Rows:			
	name	revenue	
٨	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
   category,
   ROUND(SUM(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
   order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY category
ORDER BY revenue DESC;
```

Re	Result Grid			
	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 order_date, sum(quantity * 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 order_date) as sales;
```

Re	sult Grid	National Property of the Prope
	order_date	cum_revenue
	2015-01-01	2713.8500000000004
	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	29831.300000000003
	2015-01-14	32358.700000000004
	2015-01-15	34343.50000000001
	2015-01-16	36937.65000000001
	2015-01-17	39001.75000000001
	2015-01-18	40978.600000000006
	2015-01-19	43365.75000000001
	2015-01-20	45763.65000000001
	2015-01-21	47804.20000000001
	2015-01-22	50300.90000000001
	2015-01-23	52724.600000000006
	2015-01-24	55013.850000000006
	2015-01-25	56631.40000000001
	2015-01-26	58515.80000000001

## 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
from
(select category, name, sum(quantity * 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 category, name) as a) as b
where rn <=3;</pre>
```

Result Grid			
	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	30161.75	
	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	