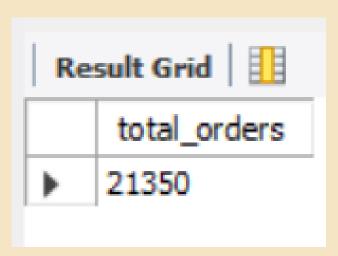
## PIZZA SALES SQL ANALYSIS:)

```
-- Q1. Retrieve the total number of orders placed.

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



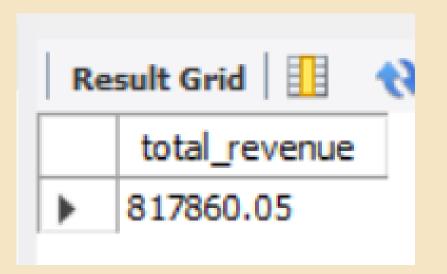
```
-- Q2. Calculate the total revenue generated from pizza sales.

SELECT ROUND(SUM(b.quantity*a.price), 2) AS 'total_revenue'

FROM pizzas a

JOIN order_details b

ON a.pizza_id = b.pizza_id;
```



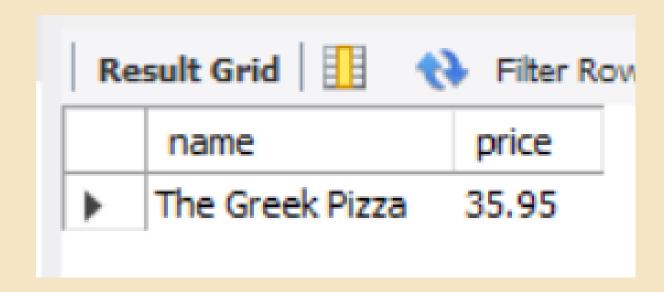
```
-- Q3. Identify the highest-priced pizza.

SELECT b.name, a.price

FROM pizzas a

JOIN pizza_types b ON a.pizza_type_id = b.pizza_type_id

WHERE price = (SELECT MAX(price) FROM pizzas);
```



```
-- Q4. Identify the most common pizza size ordered.

SELECT c.size, COUNT(a.order_id)

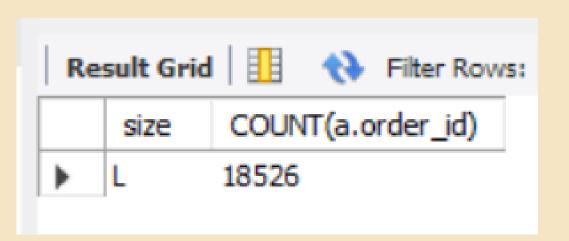
FROM orders a

JOIN order_details b ON a.order_id = b.order_id

JOIN pizzas c ON b.pizza_id = c.pizza_id

GROUP BY size

ORDER BY COUNT(a.order_id) DESC LIMIT 1;
```



```
-- Q5. List the top 5 most ordered pizza types along with their quantities.

SELECT c.name, SUM(a.quantity)

FROM order_details a

JOIN pizzas b ON a.pizza_id = b.pizza_id

JOIN pizza_types c ON b.pizza_type_id = c.pizza_type_id

GROUP BY c.name

ORDER BY SUM(a.quantity) DESC LIMIT 5;
```

Result Grid 🔢 \infty Filter Rows:			
	name	SUM(a.quantity)	
•	The Classic Deluxe Pizza	2453	
	The Barbecue Chicken Pizza	2432	
	The Hawaiian Pizza	2422	
	The Pepperoni Pizza	2418	
	The Thai Chicken Pizza	2371	

```
-- Q1. Join the necessary tables to find the total quantity of each pizza category ordered.

SELECT c.category, SUM(a.quantity)

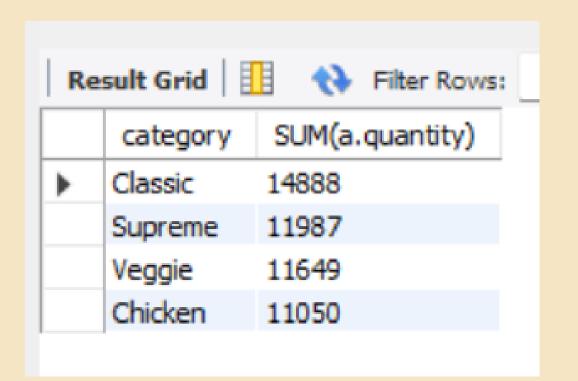
FROM order_details a

JOIN pizzas b on a.pizza_id = b.pizza_id

JOIN pizza_types c ON b.pizza_type_id = c.pizza_type_id

GROUP BY c.category

ORDER BY SUM(a.quantity) DESC;
```



```
-- Q2. Determine the distribution of orders by hour of the day.

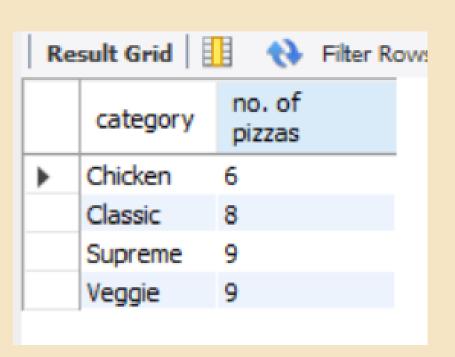
SELECT HOUR(order_time) AS 'Hour', COUNT(order_id) AS 'Order Count' FROM orders

GROUP BY HOUR(order_time)

ORDER BY COUNT(order_id) DESC;
```

Result Grid   1		
	Hour	Order Count
•	12	2520
	13	2455
	18	2399
	17	2336
	19	2009
	16	1920
	20	1642
	14	1472
	15	1468
	11	1231
	21	1198
	22	663
	23	28
	10	8
	9	1

-- Q3. Join relevant tables to find the category-wise distribution of pizzas.
SELECT category, COUNT(name) AS 'no. of pizzas' FROM pizza\_types
GROUP BY category;



```
-- Q4. Group the orders by date and calculate the average number of pizzas ordered per day.

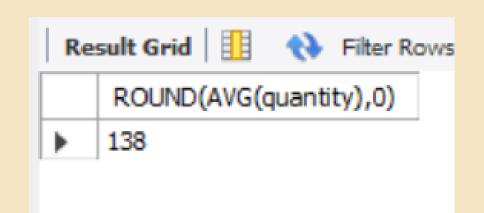
SELECT ROUND(AVG(quantity),0)

FROM (SELECT a.order_date, SUM(b.quantity) AS 'quantity'

FROM orders a

JOIN order_details b ON a.order_id = b.order_id

GROUP BY a.order_date) AS quantity;
```



```
-- Q5. Determine the top 3 most ordered pizza types based on revenue.

SELECT d.name, SUM(c.price*b.quantity) AS 'Revenue'

FROM orders a

JOIN order_details b ON a.order_id = b.order_id

JOIN pizzas c ON b.pizza_id = c.pizza_id

JOIN pizza_types d ON c.pizza_type_id = d.pizza_type_id

GROUP BY d.name

ORDER BY Revenue DESC LIMIT 3;
```

Result Grid   1			
	name	Revenue	
•	The Thai Chicken Pizza	43434.25	
	The Barbecue Chicken Pizza	42768	
	The California Chicken Pizza	41409.5	

```
-- Q1. Calculate the percentage contribution of each pizza type to total revenue.

SELECT c.category, ROUND((SUM(a.quantity* b.price) / (SELECT SUM(a.quantity* b.price)

FROM order_details a

JOIN pizzas b ON a.pizza_id = b.pizza_id)) * 100, 2) AS '% of each category'

FROM order_details a

JOIN pizzas b ON a.pizza_id = b.pizza_id

JOIN pizzas b ON b.pizza_type_id = c.pizza_type_id

GROUP BY c.category

ORDER BY '% of each category' DESC;
```

Result Grid			
	category	% of each category	
•	Classic	26.91	
	Veggie	23.68	
	Supreme	25.46	
	Chicken	23.96	

```
-- Q2. Analyze the cumulative revenue generated over time.

SELECT order_date, SUM(revenue) OVER(ORDER BY order_date) AS 'Cumulative Sum'

FROM(

SELECT a.order_date, ROUND(SUM(b.quantity*c.price),2) AS 'revenue'

FROM orders a

JOIN order_details b ON a.order_id = b.order_id

JOIN pizzas c ON b.pizza_id = c.pizza_id

GROUP BY a.order_date) AS t;
```

Re	sult Grid	National Company of the Printer Rows:
	order_date	Cumulative Sum
•	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
	2015-01-09	21526.399999999998
	2015-01-10	23990.35
	2015-01-11	25862.649999999998
	2015-01-12	27781.699999999997
	2015-01-13	29831.299999999996
	2015-01-14	32358.699999999997
	2015-01-15	34343.5
	2015-01-16	36937.65

```
-- Q3. Determine the top 3 most ordered pizza types based on revenue for each pizza category.

SELECT category, name, revenue,

RANK() OVER(PARTITION BY category ORDER BY revenue DESC) AS 'rn'

FROM

(SELECT c.name, c.category, SUM(a.quantity*b.price) AS 'revenue'

FROM order_details a

JOIN pizzas b ON a.pizza_id = b.pizza_id

JOIN pizza_types c ON b.pizza_type_id = c.pizza_type_id

GROUP BY c.category, c.name) AS t1) AS t2

WHERE rn<=3;
```

Result Grid 1				
	category	name	revenue	
<b>&gt;</b>	Chicken	The Thai Chicken Pizza	43434.25	
	Chicken	The Barbecue Chicken Pizza	42768	
	Chicken	The California Chicken Pizza	41409.5	
	Classic	The Classic Deluxe Pizza	38180.5	
	Classic	The Hawaiian Pizza	32273.25	
	Classic	The Pepperoni Pizza	30161.75	
	Supreme	The Spicy Italian Pizza	34831.25	
	Supreme	The Italian Supreme Pizza	33476.75	
	Supreme	The Sicilian Pizza	30940.5	
	Veggie	The Four Cheese Pizza	32265.70000000065	
	Veggie	The Mexicana Pizza	26780.75	
	Veggie	The Five Cheese Pizza	26066.5	

