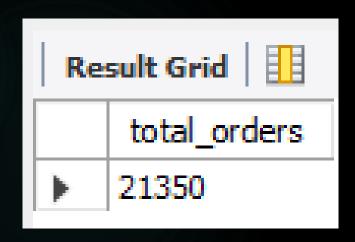
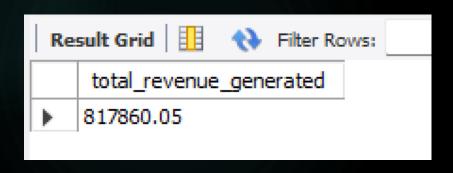
Comprehensive Pizza Sales Analysis

USING ADVANCED SQL QUERIES

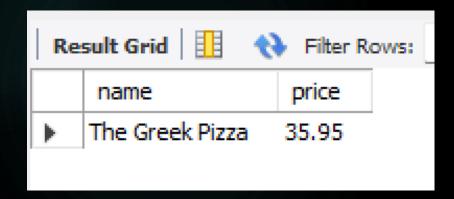
select count(order_id) as total_orders from orders;



1. Retrieve the Total
Number of Orders
Placed
This query calculates the total number of pizza orders placed by customers.



- 2. Calculate the Total Revenue Generated from Pizza Sales
- This query determines the total revenue generated from all pizza orders by multiplying the quantity ordered by the price.



- 3. Identify the Highest-Priced Pizza
- This query retrieves the most expensive pizza and its price.

```
SELECT
    pizzas.size,
    COUNT(orders_details.order_details_id) AS
FROM
    pizzas
        JOIN
   orders details ON pizzas.pizza id = order
GROUP BY pizzas.size
ORDER BY order count DESC;
```

Res	sult Grid	Filter Rows:
	size	order_count
•	L	18526
	M	15385
	S	14137
	XL	544
	XXL	28

4. Identify the Most Common Pizza Size Ordered This query finds out the most frequently

ordered pizza size.

```
SELECT
    pizza_types.name, 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.name
ORDER BY quantity DESC
LIMIT 5;
```

Re	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		

- 5. List the Top 5 Most
 Ordered Pizza Types with
 Quantities
- This query provides the top
 pizza types based on the
 total quantity 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;
```

Result Grid				
	category	quantity		
•	Classic	14888		
	Supreme	11987		
	Veggie	11649		
	Chicken	11050		
	_			

- 6. Total Quantity of Each Pizza Category Ordered
- This query summarizes the quantity of pizzas ordered by their category (e.g. Classic, Supreme, Veggie, Chicken).

Re	sult Grid		43	Filter
	hour	order_	coun	t
•	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		

```
SELECT

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

FROM

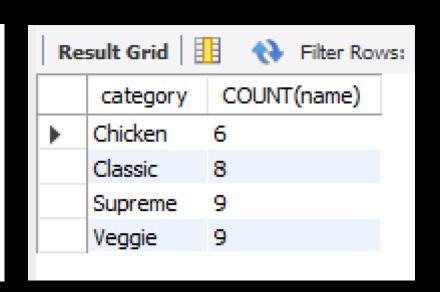
orders

GROUP BY HOUR(order_time);
```

7. Distribution of Orders by Hour of the Day

This query shows when most orders are placed, grouping by hour.

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



8. Categorywise Distribution of Pizza Orders

This query displays how pizza orders are distributed across different categories.

```
SELECT

ROUND(AVG(quantity), 0) as avg_pizza_ordered_per_day

FROM

(SELECT

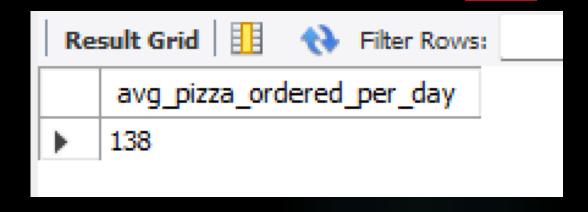
orders.order_date, SUM(orders_details.quantity) AS quantity

FROM

orders

JOIN orders_details ON orders.order_id = orders_details.order_id

GROUP BY orders.order_date) AS order_quantity;
```



9. Average Number of Pizzas Ordered Per Day This query calculates the average number of pizzas ordered daily.

```
SELECT
    pizza_types.name,
    SUM(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
GROUP BY pizza_types.name
ORDER BY revenue DESC
LIMIT 3;
```

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

10. Top 3 Most Ordered Pizza Types Based on Revenue

This query lists the top 3 pizza types that generated the highest revenue.

1 1

```
SELECT
    pizza_types.category,
    round(SUM(orders details.quantity * pizzas.price) / (SELECT
            ROUND(SUM(orders_details.quantity * pizzas.price),
        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) * 100, 2) AS revenue percentage
    pizza_types
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
    orders_details ON orders_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category
ORDER BY revenue percentage DESC;
```

Result Grid			
	category	revenue_percentage	
•	Classic	26.91	
	Supreme	25.46	
	Chicken	23.96	
	Veggie	23.68	

11. Percentage Contribution of Each Pizza Type to Total Revenue

This query shows the percentage of revenue each pizza category contributes to the total.

```
SELECT
   order_date,
    SUM(revenue) OVER (ORDER BY order_date) AS cum_revenue
FROM
    (SELECT
         orders.order_date,
         SUM(orders details.quantity * pizzas.price) AS revenue
     FROM
         orders_details
     JOIN
         pizzas ON orders_details.pizza_id = pizzas.pizza_id
     JOIN
         orders ON orders.order_id = orders_details.order_id
     GROUP BY
         orders.order date
    ) AS sales;
```

Re	sult Grid	Filter Rows:
	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

12. Cumulative Revenue Generated Over Time

This query shows the cumulative revenue generated as orders progress over time.

```
SELECT
    name,
    revenue
FROM
    (SELECT
         category,
         name,
         revenue,
         RANK() OVER (PARTITION BY category ORDER BY revenue DESC) AS rn
     FROM
         (SELECT
              pizza_types.category,
              pizza_types.name,
              SUM(orders_details.quantity * pizzas.price) AS revenue
          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, pizza_types.name
         ) AS a
    ) AS b
WHERE
    rn <= 3;
```

Res	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		

- 13. Top 3 Most Ordered Pizza Types Based on Revenue for Each Category
- This query determines the top 3 pizza types based on revenue for each pizza category.