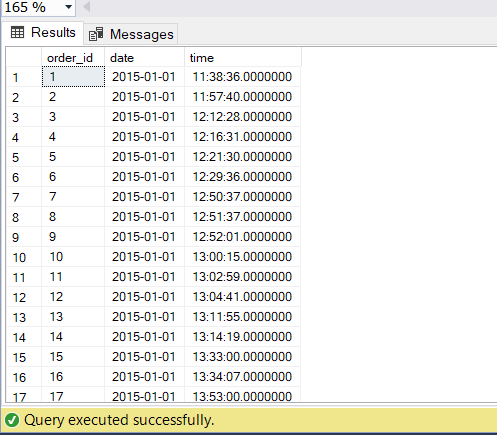
**Project\_On\_Pizzas\_Sales\_using\_SQL**

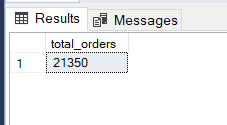
**Q1. Retrive the total number of orders placed**

**Select \* from orders**

****

**Select max(order\_id) AS total\_orders**

**from orders**

****

**Q2. Calculate the total revenue from the pizza sales**

**SELECT**

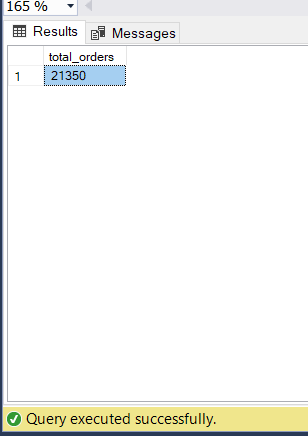
**SUM(order\_details.quantity \* CAST(pizzas.price AS DECIMAL(10, 2))) AS total\_sales**

**FROM**

**order\_details**

**JOIN**

**pizzas ON pizzas.pizza\_id = order\_details.pizza\_id;**

****

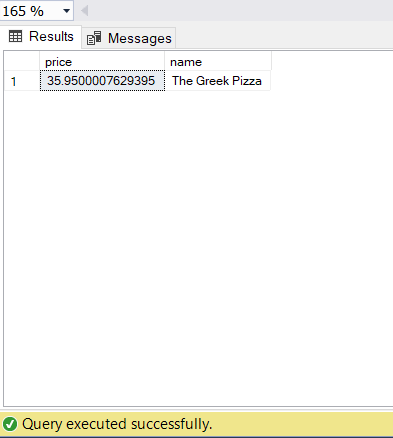
**Q3. Identify the higest-priced pizza**

**Select top 1 pizzas.price, pizza\_types.name**

**from pizza\_types**

**join pizzas on pizza\_types.pizza\_type\_id = pizzas.pizza\_type\_id**

**order by pizzas.price desc**

****

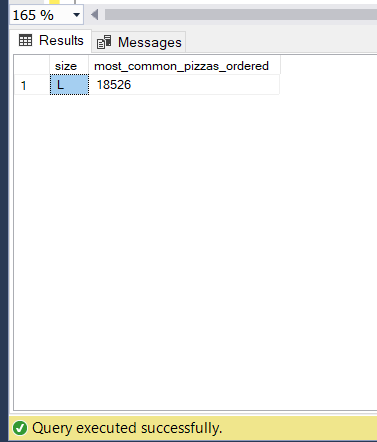
**Q4. Identify the most common pizza size ordered**

**Select top 1 pizzas.size, COUNT(order\_details.order\_details\_id) as most\_common\_pizzas\_ordered**

**from pizzas**

**join order\_details on order\_details.pizza\_id = pizzas.pizza\_id**

**group by pizzas.size**

****

**Q5. List the top 5 most ordered pizzas along with their quantity**

**Select top 5 pizza\_types.name,sum (order\_details.quantity) as quantity**

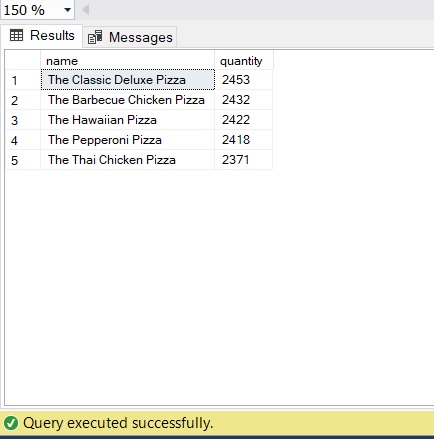
**from pizza\_types**

**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 quantity desc**

****

**Q6. Join the necessary tables to find the total quantity of each pizza category ordered.**

**Select top 5 pizza\_types.category,sum (order\_details.quantity) as quantity**

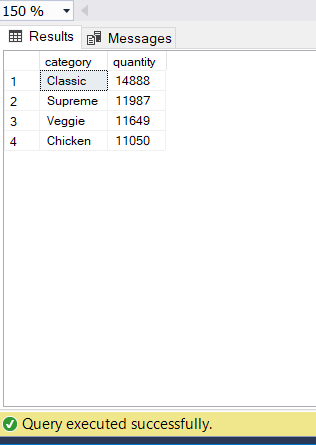
**from pizza\_types**

**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.category**

**order by quantity desc**

****

**Q7. Determine the distribution of orders by hour of the day.**

**SELECT**

**DATEPART(HOUR, time) AS Hour,**

**COUNT(order\_id) AS order\_count**

**FROM**

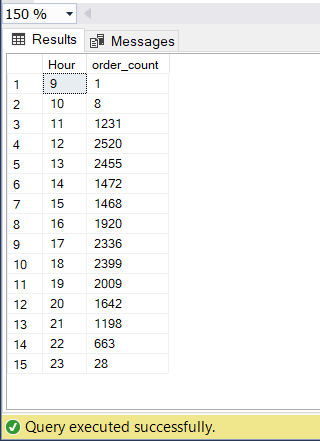
**orders**

**GROUP BY**

**DATEPART(HOUR, time)**

**ORDER BY**

**Hour;**

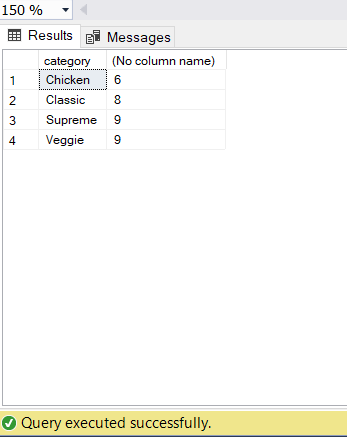
****

**Q8. Join relevant tables to find the category wise distribution of pizzas**

**Select category, count(name)**

**from pizza\_types**

**group by category**

****

**Q9. Group the orders by date and calculate the sum number of pizzas ordered per day**

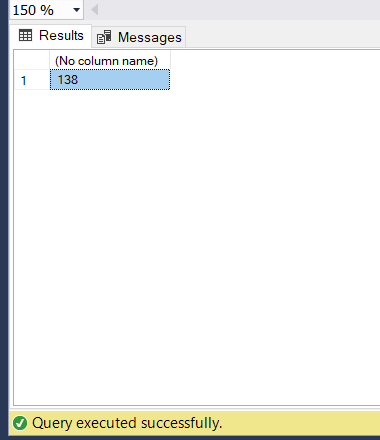
**Select avg(quantity) from**

**(Select orders.date, sum(order\_details.quantity) as Quantity**

**From orders**

**Join order\_details on order\_details.order\_id = orders.order\_id**

**group by orders.date) as ordered\_quantity**

****

**Q10. Determine the top 3 most ordered pizzas types based on revenue**

**Select top 3 pizza\_types.name,sum (order\_details.quantity \* pizzas.price) as total\_revenue**

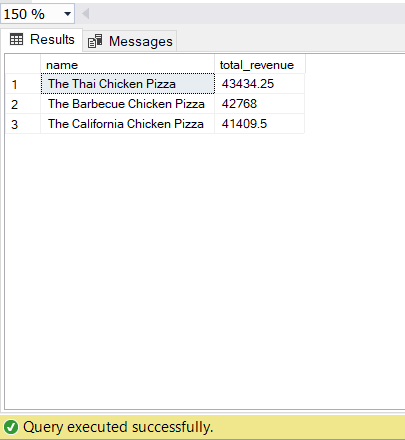
**from pizza\_types**

**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 total\_revenue desc**

****

**Q11. Calculate the percentage contribution of each pizza type to total revenue.**

**SELECT**

**pizza\_types.name,**

**ROUND((SUM(order\_details.quantity \* pizzas.price) /**

**(SELECT SUM(order\_details.quantity \* pizzas.price)**

**FROM pizzas**

**JOIN order\_details ON order\_details.pizza\_id = pizzas.pizza\_id)**

**) \* 100, 2) AS revenue\_percentage**

**FROM**

**pizza\_types**

**JOIN**

**pizzas ON pizza\_types.pizza\_type\_id = pizzas.pizza\_type\_id**

**JOIN**

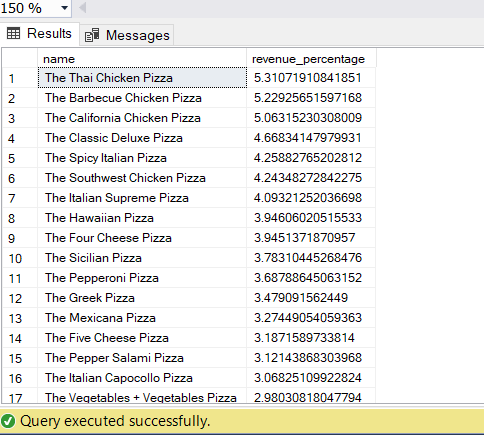
**order\_details ON order\_details.pizza\_id = pizzas.pizza\_id**

**GROUP BY**

**pizza\_types.name**

**ORDER BY**

**revenue\_percentage DESC;**

****

**Q12. Analyse the cumulative revenue generated over time.**

**SELECT**

**date,**

**ROUND(SUM(revenue) OVER (ORDER BY date), 2) AS cum\_revenue**

**FROM**

**(**

**SELECT**

**orders.date,**

**SUM(order\_details.quantity \* pizzas.price) AS revenue**

**FROM**

**orders**

**JOIN**

**order\_details ON orders.order\_id = order\_details.order\_id**

**JOIN**

**pizzas ON order\_details.pizza\_id = pizzas.pizza\_id**

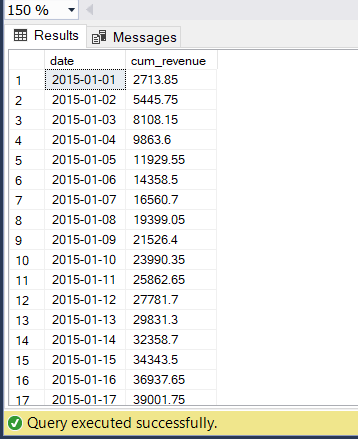
**GROUP BY**

**orders.date**

**) AS sales**

**ORDER BY**

**date;**

****