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Basic:

Retrieve the total number of orders placed.

Calculate the total revenue generated from pizza sales.

Identify the highest-priced pizza.

Identify the most common pizza size ordered.

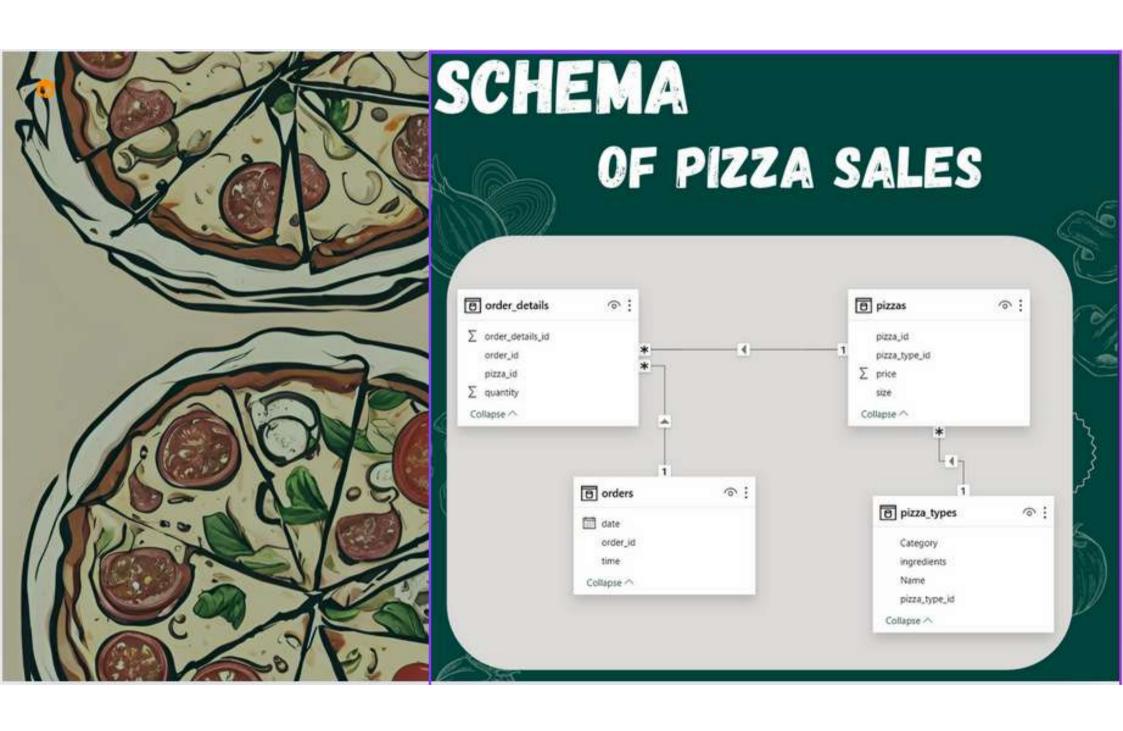
List the top 5 most ordered pizza types along with their quantities.

Intermediate:

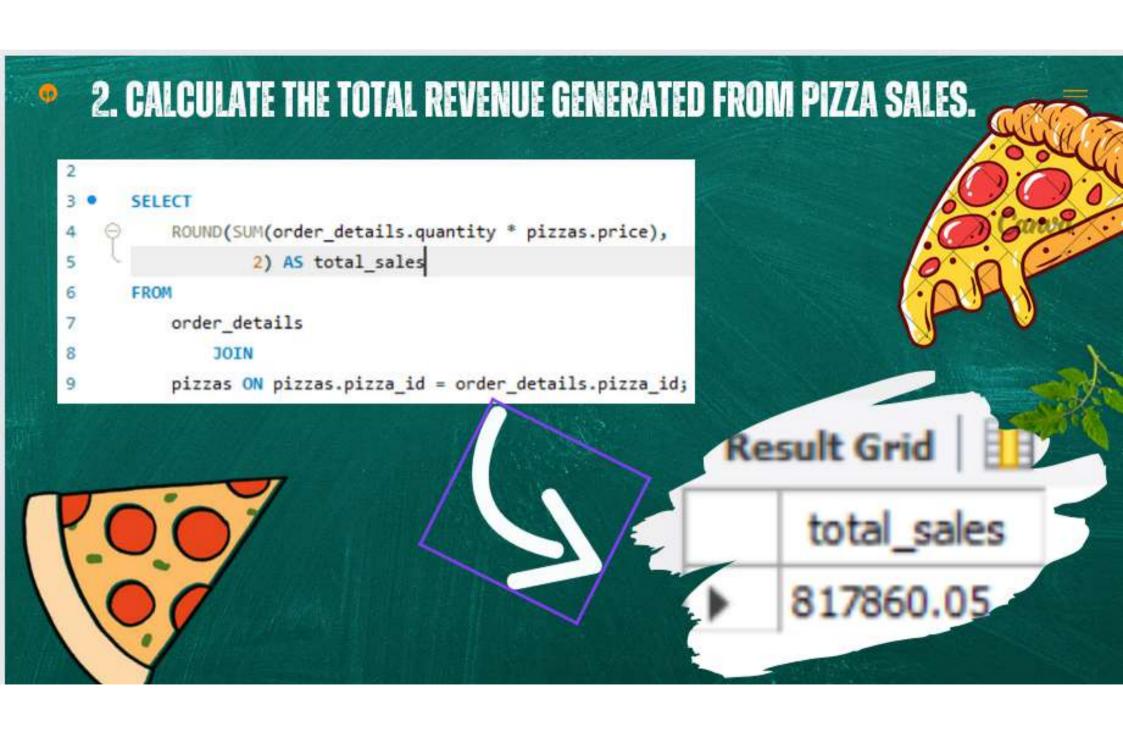
- Join the necessary tables to find the total quantity of each pizza category ordered.
- Determine the distribution of orders by hour of the day.
- ★ Join relevant tables to find the category-wise distribution of pizzas.
- ★ Group the orders by date and calculate the average number of
- pizzas ordered per day.
 Determine the top 3 most ordered pizza types based on revenue.

Advanced:

- ★ Calculate the percentage contribution of each pizza type to total revenue.
 - Analyze the cumulative revenue generated over time.
- ★ Determine the top 3 most ordered pizza types based on revenue for each pizza category.





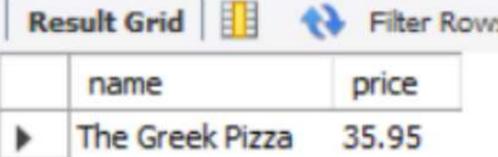


3. IDENTIFY THE HIGHEST-PRICED PIZZA.









4. IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.



5. LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES.

```
pizza_types.name, SUM(order_details.quantity) AS quantity

FROM

pizza_types

JOIN

pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id

JOIN

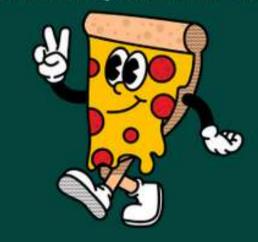
order_details ON pizzas.pizza_id = order_details.pizza_id

GROUP BY pizza_types.name

ORDER BY quantity DESC

LIMIT 5;
```





Filter Rows:

L			
	name	quanti	
	The Classic Deluxe Pizza	2453	
	The Barbecue Chicken Pizza	2432	
	The Hawaiian Pizza	2422	
	The Pepperoni Pizza	2418	
	The Thai Chicken Pizza	2371	



6. JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA

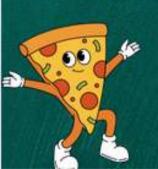
CATEGORY ORDERED.

```
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 pizza_types.category
ORDER BY quantity DESC;
```

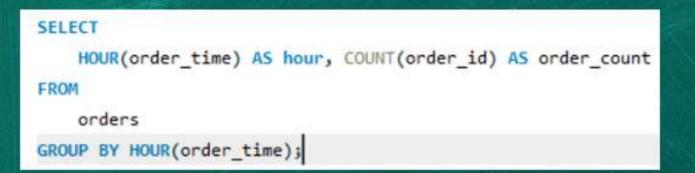




	category	quantity
١	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050



7. DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.





	hour	order_count
٠	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

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

select category, count(name) from pizza_types
group by category;



	category	count(name)
•	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9



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

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

FROM

orders

JOIN order_details ON orders.order_id = order_details.order_id

GROUP BY orders.order_date) AS order_quantity
```





avg_pizza_ordered_per_day

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10. DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.

```
SELECT

pizza_types.name,

SUM(order_details.quantity * pizzas.price) AS revenue

FROM

pizza_types

JOIN

pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id

JOIN

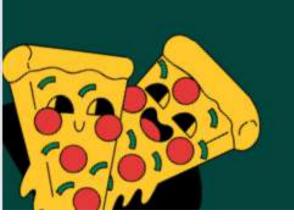
order_details ON order_details.pizza_id = pizzas.pizza_id

GROUP BY pizza_types.name

ORDER BY revenue DESC

LIMIT 3;
```







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

11. CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO

TOTAL REVENUE.

```
SELECT
   pizza types.category,
   ROUND(SUM(order details.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
       JOIN
   order details ON order details.pizza id = pizzas.pizza id
GROUP BY pizza types.category
ORDER BY revenue DESC
```



	category	revenue
١	Classic	26.91
	Supreme	25.46
	Chicken	23.96



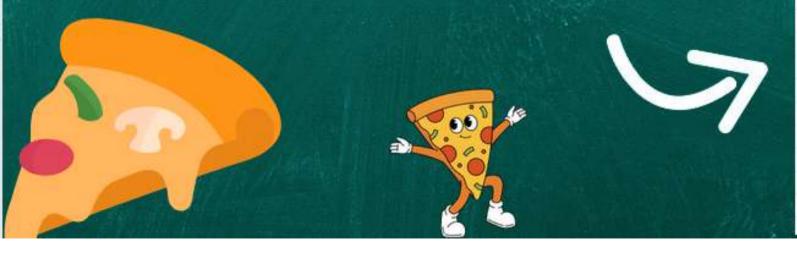
12. ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```
order_date,
sum(revenue) OVER(ORDER BY order_date) AS cum_revenue
FROM

(SELECT
orders.order_date, sum(order_details.quantity * pizzas.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 orders.order date) AS sales
```



	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

13. 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 pizza_types.category,pizza_types.name, sum(order_details.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 pizza_types.category,pizza_types.name) AS a) AS b

WHERE rn <= 3;
```







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

