

QUERIES SOLVED

- 1. Retrieve the total number of orders placed.
- 2. Calculate the total revenue generated from pizza sales.
- 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.
- 6. Join the necessary tables to find the total quantity of each pizza category ordered.
- 7. Determine the distribution of orders by hour of the day.
- 8. Join relevant tables to find the category-wise distribution of pizzas.
- 9. Group the orders by date and calculate the average number of pizzas ordered per day.
- 10. Determine the top 3 most ordered pizza types based on revenue.
- 11. Calculate the percentage contribution of each pizza type to total revenue.
- 12. Analyze the cumulative revenue generated over time.
- 13. Determine the top 3 most ordered pizza types based on revenue for each pizza category.

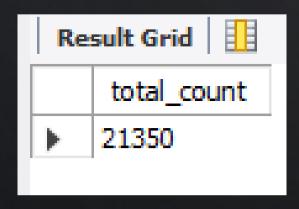
Retrieve the total number of orders placed.

```
SELECT

COUNT(order_id) AS total_count

FROM

orders;
```



Calculate the total revenue generated from pizza sales.

```
SELECT

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

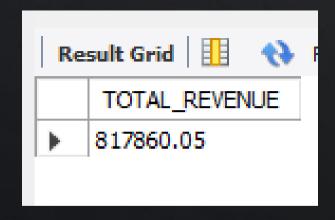
2) AS TOTAL_REVENUE

FROM

order_details

JOIN

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



Identify the highest-priced pizza.

Re	sult Grid	Filter Rows:
	price	name
>	35.95	The Greek Pizza
	25.5	The Greek Pizza
	23.65	The Brie Carre Pizza
	21	The Italian Vegetables Pizza
	20.75	The Barbecue Chicken Pizza

Identify the most common pizza size ordered.

Res	sult Grid		43	Filter
	size	order_	_coun	t
•	L	18526		
	M	15385		
	S	14137		
	XL	544		
	XXL	28		

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

```
SELECT
    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 order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY quantity DESC
LIMIT 5;
```

Re	sult Grid 🔢 🚷 Filter Row	s:
	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
    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;
```

Re	sult Grid	Filte
	category	quantity
•	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

Determine the distribution of orders by hour of the day.

```
SELECT

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

FROM

orders

GROUP BY HOUR(order_time)

ORDER BY count DESC;
```

Res	Result Grid				
	hour	count			
>	12	2520			
	13	2455			
	18	2399			
	17	2336			
	19	2009			
	16	1920			
	20	1642			
	14	1472			

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

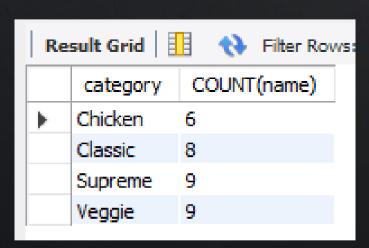
```
SELECT

category, COUNT(name)

FROM

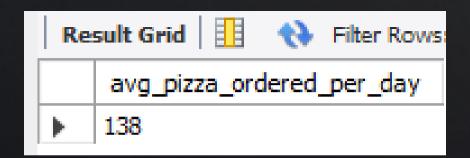
pizza_types

GROUP BY category;
```



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;
```



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 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 revenue DESC
LIMIT 5;
```

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 Spicy Italian Pizza	34831.25		

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

```
SELECT
    pizza types.category,
    (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 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;
```

Result Grid			
	category	revenue	
•	Classic	26.90596025566967	
	Supreme	25.45631126009862	
	Chicken	23.955137556847287	
	Veggie	23.682590927384577	

Analyze the cumulative revenue generated over time.

```
SELECT
     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;
```

Re	sult Grid	N 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

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

```
SELECT
     category, 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;
```

Result Grid Filter Rows:				
	category	name	revenue	
•	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	





THANK YOU

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