


Pizza Sales Analysis





1. Retrieve the total no of orders placed

```
select count(order_id) as total_orders from orders;
```

Result Grid   Filter R	
total_orders	
21350	



2. Calculate the “total revenue” generated from pizza sales

```
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;
```

Result Grid  	
total_sales	
817860.05	
Result 4	



3. Identify the highest priced pizza

```
SELECT
    pizza_types.name, pizzas.price
FROM
    pizza_types
    JOIN
        pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
ORDER BY pizzas.price DESC
LIMIT 1;
```

Result Grid   Filter		
	name	price
	The Greek Pizza	35.95
Result 5		



4. Identify the most common pizza size ordered

```
SELECT
    pizzas.size,
    COUNT(order_details.order_details_id) AS order_count
FROM
    pizzas
    JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizzas.size
ORDER BY order_count DESC;
```

Result Grid			 Filter R
	size	order_count	
<input type="checkbox"/>	L	18526	
<input type="checkbox"/>	M	15385	
<input type="checkbox"/>	S	14137	
<input type="checkbox"/>	XL	544	
<input type="checkbox"/>	XXL	28	



5. 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 limit 5;
```

Result Grid   Filter Rows: <input type="text"/>		
	name	quantity
	The Brie Carre Pizza	490
	The Mediterranean Pizza	934
	The Calabrese Pizza	937
	The Spinach Supreme Pizza	950
	The Soppressata Pizza	961



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;
```

Result Grid  		
	category	quantity
<input type="checkbox"/>	Classic	14888
<input type="checkbox"/>	Supreme	11987
<input type="checkbox"/>	Veggie	11649
<input type="checkbox"/>	Chicken	11050



7. Determine the distribution of orders by hour of the day

```
SELECT
    HOUR(time) AS hour, COUNT(order_id) AS order_count
FROM
    orders
GROUP BY HOUR(time);
```

Result Grid   Filter		
	hour	order_count
<input type="checkbox"/>	11	1231
<input type="checkbox"/>	12	2520
<input type="checkbox"/>	13	2455
<input type="checkbox"/>	14	1472
<input type="checkbox"/>	15	1468
<input type="checkbox"/>	16	1920
<input type="checkbox"/>	17	2336
<input type="checkbox"/>	18	2399
<input type="checkbox"/>	19	2009
<input type="checkbox"/>	20	1642
<input type="checkbox"/>	21	1198
<input type="checkbox"/>	22	822

8. Group the orders by date and calculate the average number of pizzas ordered per day

```
SELECT
    round(AVG(quantity),2) as avg_pizzas_ordered_perday
FROM
    (SELECT
        orders.date, SUM(order_details.quantity) AS quantity
    FROM
        orders
    JOIN order_details ON orders.order_id = order_details.order_id
    GROUP BY orders.date) AS order_quantity;
```

Result Grid   Filter Row	
avg_pizzas_ordered_perday	
138.51	
Result 2	



9. 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 3;
```

Result Grid		Filter Rows:
name	revenue	
NULL	191963.75	
Result 3		



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

```
SELECT
    pizza_types.category,
    ROUND(SUM(order_details.quantity * pizzas.price),
          2) / (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   Filter Rows: <input type="text" value="Search"/>		
	category	revenue
	NULL	0.0023471466787013252
Result 5		

11. Analyze the cumulative revenue generated over time

```
SELECT date, sum(revenue) over(ORDER BY date) as cum_revenue
from
(SELECT
    orders.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.date = order_details.order_id
GROUP BY orders.date) as sales;
```

Result Grid   Filter Rows: <input type="text" value="Search"/>		
	date	cum_revenue
	01-01-2023	914.25
	01-02-2023	2067
	01-03-2023	2716.25
	01-04-2023	3604
	01-05-2023	4597.75
	01-06-2023	5551.75
	01-07-2023	6426.25
	01-08-2023	7406.75
	01-09-2023	8215
	01-10-2023	9328
	01-11-2023	10056.75
	01-12-2023	10865
	02-01-2023	17029

12. 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 ;
```

Result Grid		Filter Rows:	Q	Sea
name	revenue			
NULL	191963.75			