

PIZZA SALES ANALYSIS USING SQL

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1. Calculate the total count of orders placed

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

	total_no_of_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;
```

	total_sales
▶	817860.05

3. Identify the highest-priced pizza.

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

Result Grid | Filter Rows:

	name	price
▶	The Greek Pizza	35.95

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
LIMIT 1;
```

	size	order_count
▶	L	18526

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

```
SELECT
    pizza_types.name,
    SUM(order_details.quantity) AS total_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 total_quantity DESC
LIMIT 5;
```

	name	total_quantity
▶	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 relevant tables to find the category-wise distribution of pizzas.

```
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
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

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

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

	category	count
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

8. 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;
```

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

9. 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
            order_details.pizza_id = pizzas.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
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

10. 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;
```

	order_date	cum_revenue
	2015-01-01	13.25
	2015-01-02	105.25
	2015-01-03	142.5
	2015-01-04	159
	2015-01-05	175.5
	2015-01-06	200.25

11. 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 California Chicken Pizza	41409.5
	The Southwest Chicken Pizza	34705.75
	The Chicken Alfredo Pizza	16900.25
	The Chicken Pesto Pizza	16701.75
	The Pepperoni Pizza	30161.75

Thank
you!