

INTRODUCTION

Hello, My name is Abhay Pratap Singh. In this Project I had utilized SQL query to solve Question that were related to Pizza Sales.



RETRIEVE THE TOTAL NUMBER OF ORDERS PALCED.

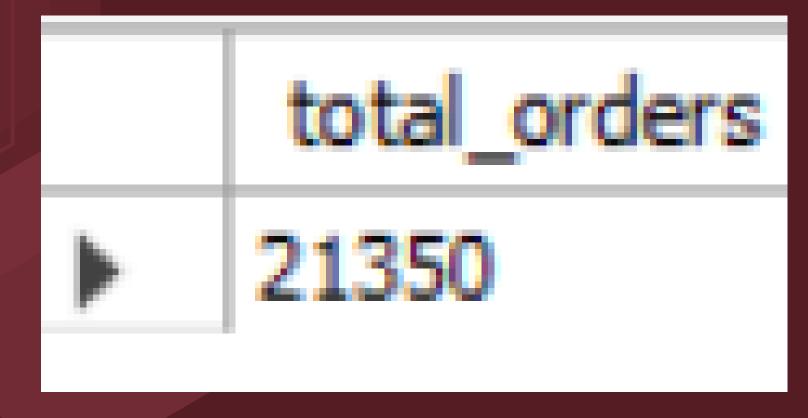
```
-- Retrieve the total number of orders palced.

SELECT

COUNT(order_id) AS total_orders

FROM

orders;
```





CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

```
-- 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;
```

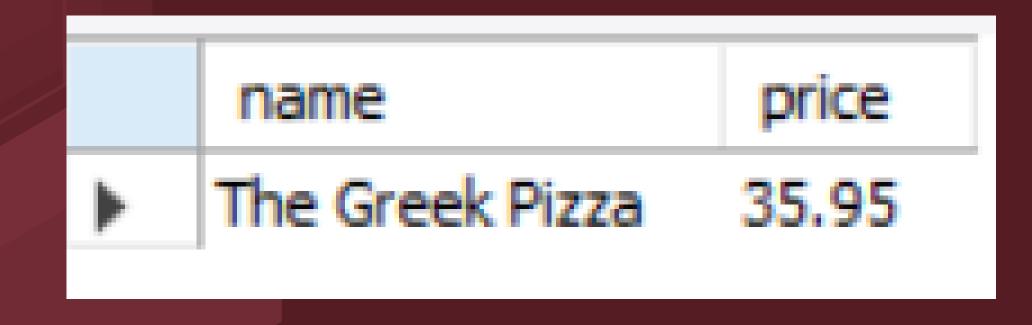




IDENTIFY THE HIGHEST-PRICED PIZZA.

```
-- 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;
```





IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```
-- 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;
```

	size	order_count
•	L	7893
	M	6827
	S	6507
	XL	115
	XXL	8



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

```
-- 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;

	name	quantity
•	The Barbecue Chicken Pizza	2329
	The California Chicken Pizza	1721
	The Big Meat Pizza	1695
	The Classic Deluxe Pizza	1506
	The Hawaiian Pizza	1166



ORDER BY total_quantity DESC;

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

```
-- Join the necessary tables to find the total quantity of each pizza category ordered.

SELECT

pizza_types.category,

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.category
```

	category	total_quantity
▶	Classic	6975
	Chicken	6238
	Veggie	4357
	Supreme	4134



DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

```
-- Determine the distribution_of_orders_by_hour_of_the_day.

SELECT

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

FROM

orders

GROUP BY HOUR(order_time);
```

	hour	order_count
•	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336
	18	2399
	19	2009
	20	1642
	21	1198



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

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

SELECT

category, COUNT(name) AS total_count

FROM

pizza_types

GROUP BY category;
```

	category	total_count
•	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9



GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.

```
-- 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;
```





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DETERMINE THETOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.

```
-- Determine thetop 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
                                                 name
                                                                                        revenue
LIMIT 3;
                                                The Barbecue Chicken Pizza
                                                                                       41230.75
                                                The California Chicken Pizza
                                                                                       30102.75
                                                The Classic Deluxe Pizza
                                                                                       23548
```



CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.

```
-- 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 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 revenue DESC;
```

	category	revenue
•	Chicken	30.8
	Classic	28.06
	Supreme	20.63
	Veggie	20.51



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 order by order_date)
as sales;
```

	order_date	cum_revenue
•	2015-01-01	1136.3500000000001
	2015-01-02	2245.8500000000004
	2015-01-03	3374.8500000000004
	2015-01-04	4260.150000000001
	2015-01-05	5159.1
	2015-01-06	6232.3
	2015-01-07	7195.25
	2015-01-08	8352.4
	2015-01-09	9386.85
	2015-01-10	10501.15
	2015-01-11	11341.949999999999



DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGROY.

```
-- Determine the top 3 most ordered pizza types based on revenue for each pizza categroy.
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 Barbecue Chicken Pizza	41230.75
	The California Chicken Pizza	30102.75
	The Chicken Alfredo Pizza	11606
	The Classic Deluxe Pizza	23548
	The Big Meat Pizza	20340
	The Hawaiian Pizza	15546.5
	The Italian Supreme Pizza	14359.75
	The Calabrese Pizza	12463.5
	The Brie Carre Pizza	9057.949999999937
	The Four Cheese Pizza	17526.550000000232
	The Five Cheese Pizza	15299.5
	The Mexicana Pizza	9428.5

THANK YOU