asty Spicy

SQL PROJECT ON

# PIZZA SALES





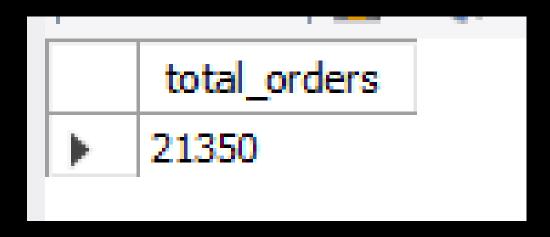
# HELLO MY NAME IS NIKITA MESHRAM.

IN THIS PROJECT I HAVE
UTILIZED SQL QUERIES TO
SOLVE QUESTIONS THAT WERE
RELATED TO PIZZA SALES

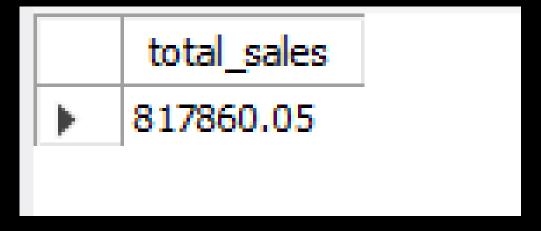
ORDER NOW

- -- 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.
- -- 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.
- -- 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

#### -- RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.



# -- CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.



#### -- 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;
```

	name	price
<b>&gt;</b>	The Greek Pizza	35.95

# -- IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

	size	order_count	
<b>&gt;</b>	L	18526	

## -- 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	
٨	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.

```
3 •
       SELECT
 4
            pizza types.category,
            SUM(order details.quantity) AS total quantity
 5
 6
        FROM
            pizza types
 7
                JOIN
 8
            pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
10
                JOIN
            order_details ON pizzas.pizza_id = order_details.pizza_id
11
       GROUP BY pizza types.category;
12
```

	category	total_quantity
*	Classic	14888
	Veggie	11649
	Supreme	11987
	Chicken	11050

### -- DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

```
SELECT
HOUR(order_time), COUNT(order_id)
FROM
orders
GROUP BY HOUR(order_time);
```

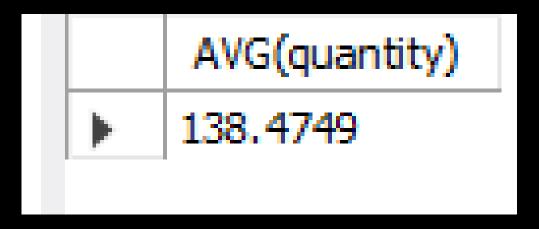
	HOUR(order_time)	COUNT(order_id)
•	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336
	18	2399
	19	2009

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

```
3 • SELECT
4          category, COUNT(name)
5      FROM
6          pizza_types
7      GROUP BY category;
```

	category	COUNT(name)
*	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

#### -- 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.

```
3 •
       SELECT
            pizza_types.name,
 4
            SUM(order details.quantity * pizzas.price) AS revenue
 5
 6
       FROM
            pizza_types
 7
                JOIN
 8
           pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
 9
10
                JOIN
            order_details ON order_details.pizza_id = pizzas.pizza_id
11
12
       GROUP BY pizza types.name
13
       ORDER BY revenue DESC
14
```

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

### -- 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),
                                AS total sales
                FROM
                    order details
                        JOIN
                    pizzas ON pizzas.pizza_id = order_details.pizza_id) * 100,
            AS revenue
FROM
    pizza types
        JOTN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOTN
    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

#### -- ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```
select order date,
3 •
       sum(revenue) over (order by order date) as cum revenue
       from
5
    (select orders.order date,
       sum(order details.quantity * pizzas.price) as revenue
7
       from order details join pizzas
8
       on order details.pizza id = pizzas.pizza id
       join orders
10
       on orders.order id = order details.order id
11
12
       group by orders.order date) as sales;
```

order_date	cum_revenue
2015-01-01	2713.85000000000004
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 3500000000002

#### -- DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY

```
3
       select name, revenue from
    5
       rank() over (partition by category order by revenue desc) as rn
      from
 6
    (select pizza types.category, pizza types.name,
7
       sum((order details.quantity) * pizzas.price) as revenue
 8
      from pizza types join pizzas
9
      on pizza types.pizza type id = pizzas.pizza type id
10
      join order details
11
      on order details.pizza id = pizzas.pizza id
12
      group by pizza types.category, pizza_types.name) as a) as b
13
      where rn <= 3;
14
```

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