Project

PIZZAHUT SALES
ANALYSIS USING



### Summary

Hello,my name is Deepak Kushwaha. In this project, I have utilised SQL query to solve various problems and questions that were related to Pizza Sales.

### Questions

#### Basic:

- Q.1 Retrieve the total number of orders placed.
- Q.2 Calculate the total revenue generated from pizza sales.
- Q.3 Identify the highest-priced pizza.
- Q.4 Identify the most common pizza size ordered.
- Q.5 List the top 5 most ordered pizza types along with their quantities.

### Intermediate:

- Q.1 Join the necessary tables to find the total quantity of each pizza category ordered.
- Q.2 Determine the distribution of orders by hour of the day.
- Q.3 Join relevant tables to find the category-wise distribution of pizzas.
- Q.4 Group the orders by date and calculate the average number of pizzas ordered per day.
- Q.5 Determine the top 3 most ordered pizza types based on revenue.

#### **Advanced:**

- Q.1 Calculate the percentage contribution of each pizza type to total revenue.
- Q.2 Analyze the cumulative revenue generated over time.
- Q.3 Determine the top 3 most ordered pizza types based on revenue for each pizza category.

### Q-1. Retrieve the total number of orders placed.

```
SELECT

COUNT(order_id) as total_order

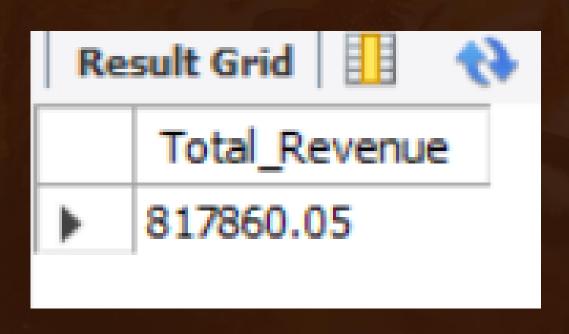
FROM

orders;
```



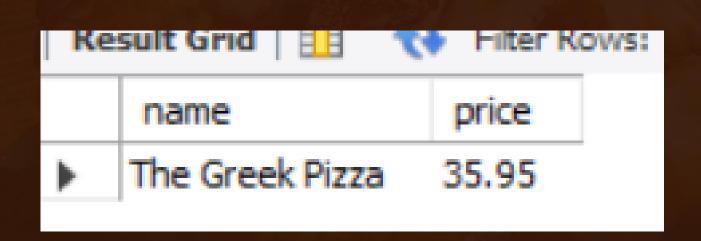
### Q-2. Calculate the total revenue generated from pizza sales.

```
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;
```

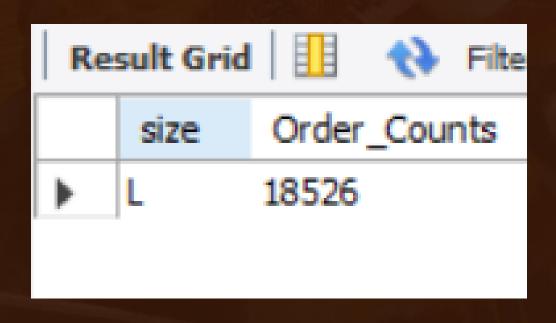


## Q-3. Identify the highest-priced pizza.

```
SELECT
19 •
         pizza_types.name, pizzas.price
20
21
     FROM
22
         pizza_types
23
             JOIN
         pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
24
     ORDER BY pizzas.price DESC
25
26
     LIMIT 1;
```



### Q-4. Identify the most common pizza size ordered.



# Q-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 desc limit 5;
```

	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

# Q-6. Join the necessary tables to find the total quantity of each pizza category ordered.

```
SELECT
    pizza_types.category,
    SUM(order_details.quantity) AS total_qunatity
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_qunatity
•	Classic	14888
	Veggie	11649
	Supreme	11987
	Chicken	11050

### Q-7. Determine the distribution of orders by hour of the day.

```
select * from orders;

SELECT
    HOUR(order_time), COUNT(order_id)

FROM
    orders

GROUP BY HOUR(order_time);
```

▶       11       1231         12       2520         13       2455		HOUR (order_time)	COUNT(order_id)
	*	11	1231
13 2455		12	2520
		13	2455
14 1472		14	1472
15 1 <del>4</del> 68		15	1468
16 1920		16	1920

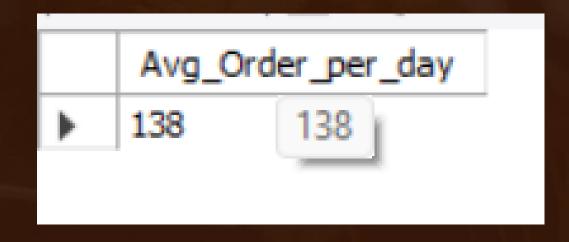
# Q-8. Join relevant tables to find the category-wise distribution of pizzas.

```
category, COUNT(name) as total_count
FROM
   pizza_types
GROUP BY category;
```

	category	total_count
•	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

# Q-9. Group the orders by date and calculate the average number of pizzas ordered per day.

```
SELECT
    ROUND(AVG(quantity), 0) AS Avg_Order_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;
```



## Q-10. 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 pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    order_details ON pizzas.pizza_id = order_details.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

## Q-11. Calculate the percentage contribution of each pizza type to total revenue.

```
SELECT
   pizza_types.category,
   ROUND(SUM(pizzas.price * order_details.quantity) / (SELECT
                    ROUND(SUM(pizzas.price * order_details.quantity),
                                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 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

### Q-12. Analyze the cumulative revenue generated over time.

```
select order_time,round(sum(revenue) over(order by order_time),2) as cum_sum_revenue
from(
SELECT
    orders.order_time,
    SUM(order_details.quantity * pizzas.price) AS revenue
FROM
    orders
        JOIN
    order_details ON orders.order_id = order_details.order_id
        JOIN
    pizzas ON pizzas.pizza_id = order_details.pizza_id
GROUP BY orders.order_time) as sales;
```

52:21 25:19 34:34	95.5 148.75
34:34	S Control Control of
T-170TAF	148.75
43:04	201.5
50:46	251.75
52:26	280.5
	50:46 52:26 14 ×

# Q-13. 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 pizzas.pizza_id=order_details.pizza_id
group by pizza_types.category,pizza_types.name) as cte1) as cte2
where rn <=3;
```

	category	name	revenue
•	Chicken	The Th The Thai Chicken Pi	zza 434.25
	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
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