# PIZZAHUT SALES using





#### Hello!!!

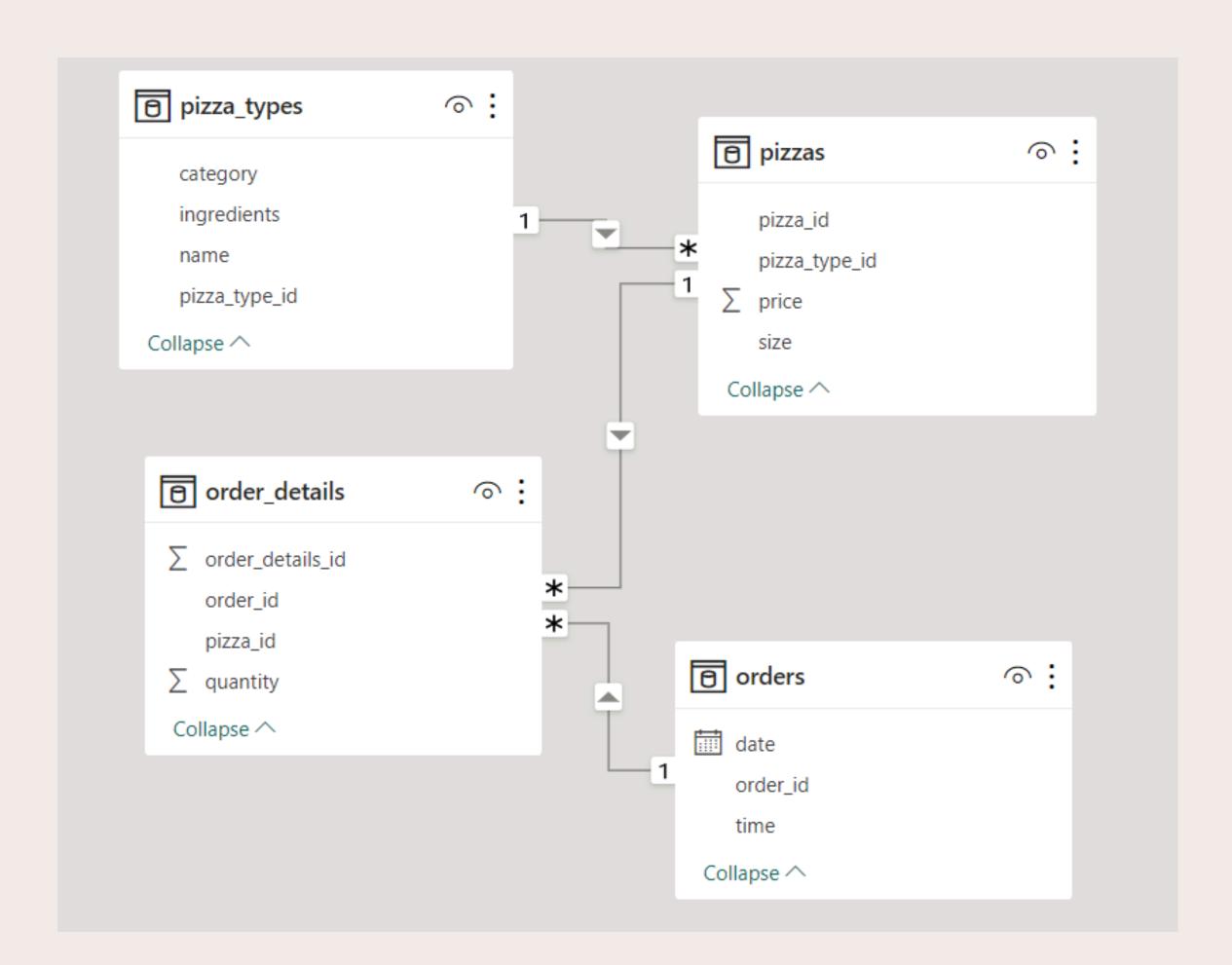
My Name is Sanika Jadhav and in this project i have utilized SQL queries to solve some questions related to pizza sales.

#### Introduction

Pizza sales data, commonly stored in a relational database, typically includes information about orders, order dates and times, categories, pizza types, names, and prices. Using SQL (Structured Query Language), businesses can efficiently manage, query, and analyze this data to gain insights and improve their operations.



#### Database Schema



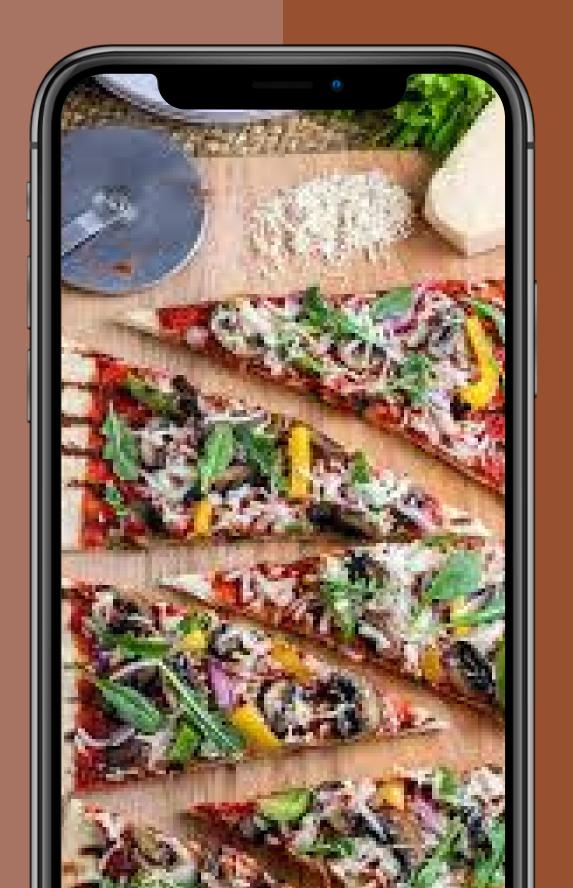
#### APPLICATIONS

Using SQL in Daily Life

SQL is a powerful tool for managing pizza sales data in everyday business operations. Here are some practical applications:

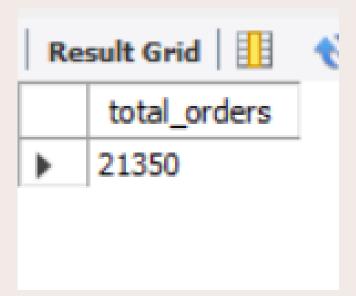
- Sales Analysis: Businesses can analyze sales patterns to identify peak ordering times, popular pizza types, and sales trends.
- Customer Insights: SQL queries can help businesses understand customer preferences and behavior, allowing for targeted marketing campaigns.

By leveraging SQL, pizza businesses can make datadriven decisions to enhance customer satisfaction, streamline operations, and boost sales.

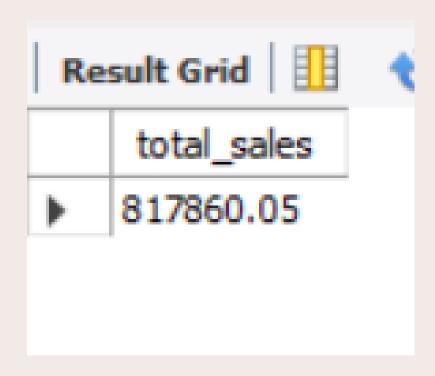


### Retrieve the total number of orders placed.

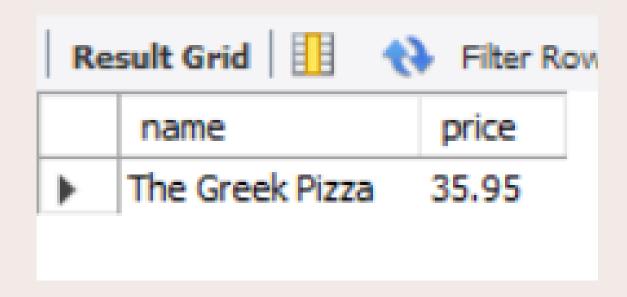
```
select count(order_id) as total_orders from pizzahut.orders;
```



### Calculate the total revenue generated from pizza sales.



#### Identify the highest-priced pizza.



#### Identify the most common pizza size ordered.

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

Result Grid 🔢 🙌 Filt			Filte	
	size	order	_details	sid
•	L	18526		
	M	15385		
	S	14137		
	XL	544		
	XXL	28		

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

```
SELECT
    pizzahut.pizza_types.name,
    SUM(pizzahut.order_details.quantity) AS quantity
FROM
    pizzahut.pizza_types
        JOIN
    pizzahut.pizzas ON pizzahut.pizza_types.pizza_type_id = pizzahut.pizzas.pizza_type_id
        JOIN
    pizzahut.order_details ON pizzahut.order_details.pizza_id = pizzahut.pizzas.pizza_id
GROUP BY pizzahut.pizza_types.name
ORDER BY quantity DESC
LIMIT 5:
```

Result Grid Filter Rows:			
	name	quantity	
•	The Barbecue Chicken Pizza	2432	
	The Classic Deluxe Pizza	2453	
	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.

```
SELECT
    pizzahut.pizza_types.category,
    SUM(pizzahut.order_details.quantity) AS quantity
FROM
    pizzahut.pizza_types
        JOIN
    pizzahut.pizzas ON pizzahut.pizza_types.pizza_type_id = pizzahut.pizzas.pizza_type_id
        JOIN
    pizzahut.order_details ON pizzahut.order_details.pizza_id = pizzahut.pizzas.pizza_id
GROUP BY pizzahut.pizza_types.category
ORDER BY quantity DESC;
```

Result Grid			
	category	quantity	
•	Classic	14888	
	Supreme	11987	
	Veggie	11649	
	Chicken	11050	

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

```
HOUR(pizzahut.orders.order_time) AS hourorder,
COUNT(order_id) AS idorder

FROM
pizzahut.orders
GROUP BY hourorder;
```

Re	sult Grid   🎚	<b>₹</b> Filt
	hourorder	idorder
•	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336
	18	2399
	19	2009
	20	1642

#### Join relevant tables to find the categorywise distribution of pizzas.

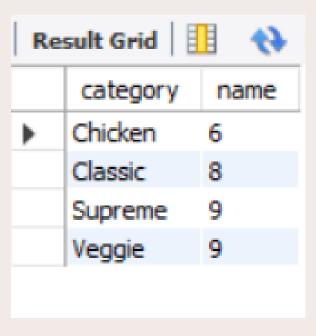
```
pizzahut.pizza_types.category,

COUNT(pizzahut.pizza_types.name) AS name

FROM

pizzahut.pizza_types

GROUP BY pizzahut.pizza_types.category;
```



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

```
AVG(quantity)

FROM

(SELECT

pizzahut.orders.order_date AS orderdate,

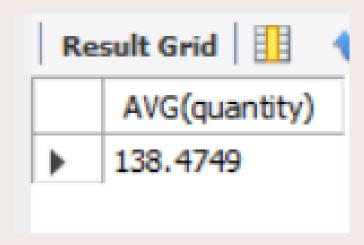
SUM(pizzahut.order_details.quantity) AS quantity

FROM

pizzahut.orders

JOIN pizzahut.order_details ON pizzahut.orders.order_id = pizzahut.order_details.order_id

GROUP BY pizzahut.orders.order_date) AS avgquantity;
```



### Determine the top 3 most ordered pizza types based on revenue.

```
SELECT
    pizzahut.pizza_types.name, SUM(quantity * price) AS revenue
FROM
    pizzahut.pizza_types
        JOIN
    pizzahut.pizzas ON pizzahut.pizza_types.pizza_type_id = pizzahut.pizzas.pizza_type_id
        JOIN
    order_details ON pizzahut.order_details.pizza_id = pizzahut.pizzas.pizza_id
GROUP BY pizzahut.pizza_types.name
ORDER BY revenue DESC
LIMIT 3;
```

Result Grid		
	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
   pizzahut.pizza_types.category,
   ROUND(SUM(quantity * price) / (SELECT
                   ROUND(SUM(pizzahut.order_details.quantity * pizzahut.pizzas.price),
                                AS total sales
                FROM
                   pizzahut.order_details
                       JOIN
                   pizzahut.pizzas ON pizzas.pizza id = order details.pizza id) * 100,
            AS totalsales
FROM
   pizzahut.pizza_types
        JOIN
   pizzahut.pizzas ON pizzahut.pizza_types.pizza_type_id = pizzahut.pizzas.pizza_type_id
   order details ON pizzahut.order details.pizza id = pizzahut.pizzas.pizza id
GROUP BY pizzahut.pizza types.category;
```

Result Grid 🎚 🙌 Filte		
	category	totalsales
•	Classic	26.91
	Veggie	23.68
	Supreme	25.46
	Chicken	23.96

#### Analyze the cumulative revenue generated over time.

Re	sult Grid   🏥	Filter Rows:
	order_date	cum_revenue
•	2015-01-01	2713.85
	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	21526.399999999998

# 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 rnk
from
(SELECT
    pizzahut.pizza_types.category, pizzahut.pizza_types.name, sum(quantity * price) AS revenue
FROM
    pizzahut.pizza_types
        JOIN
    pizzahut.pizzas ON pizzahut.pizza_types.pizza_type_id = pizzahut.pizzas.pizza_type_id
        JOIN
    order_details ON pizzahut.order_details.pizza_id = pizzahut.pizzas.pizza_id
    group by pizzahut.pizza_types.category, pizzahut.pizza_types.name) as category) as b
    where rnk <= 3;</pre>
```

Re	Result Grid			
	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		
	The Italian Supreme Pizza	33476.75		
	The Sicilian Pizza	30940.5		

