



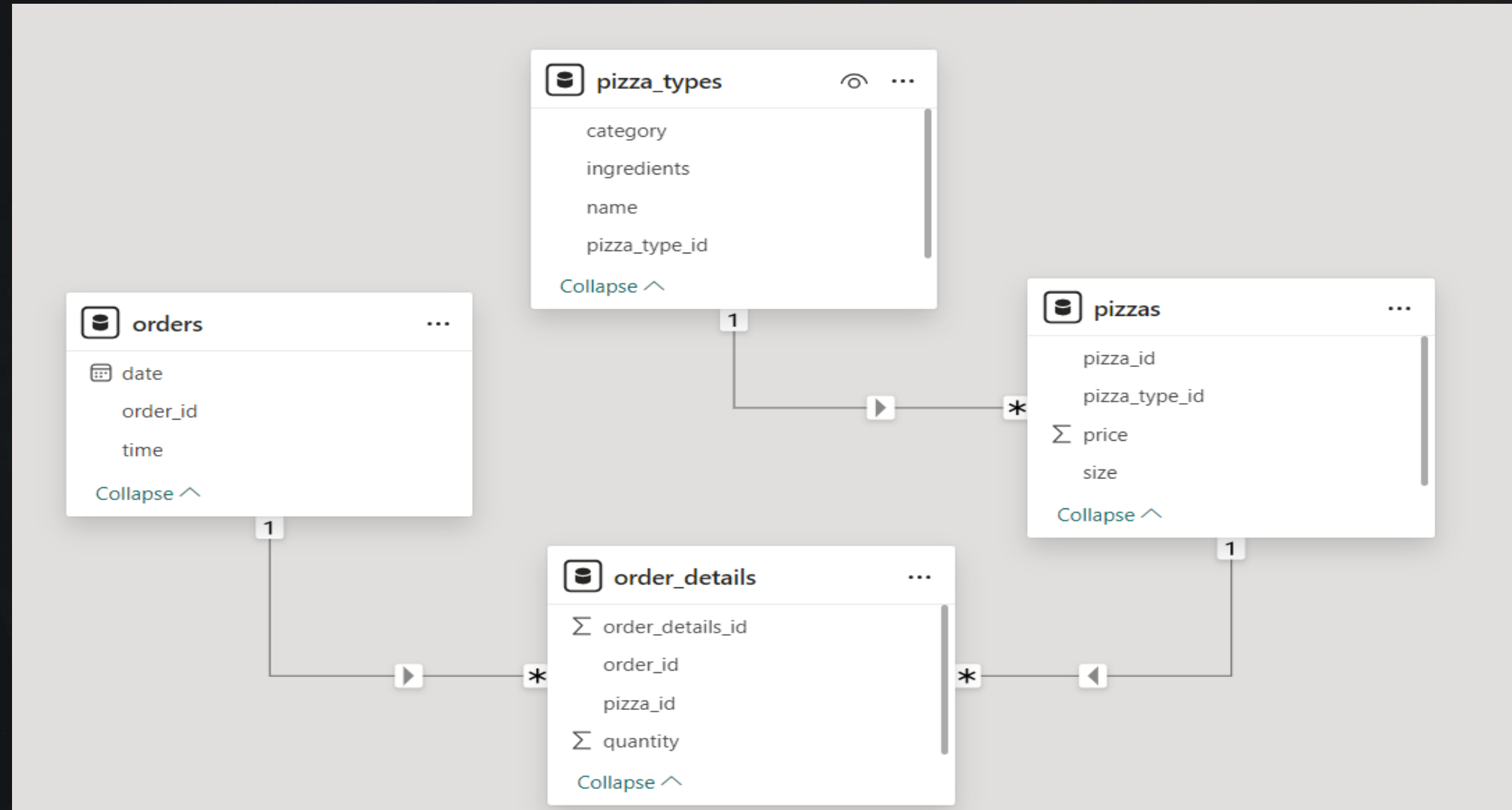
SQL PROJECT ON PIZZA SALES

The background of the slide is a dark, textured surface. In the top-left corner, there is a whole red tomato, a yellow bell pepper, and a head of garlic. In the bottom-left corner, several slices of pizza are arranged, topped with various vegetables like olives, onions, and peppers. In the bottom-right corner, there are more vegetables, including a yellow bell pepper, a mushroom, and some small potatoes. A white banner with a black border is positioned at the top center, containing the title.

INTRODUCTION

Hello, my name is Shubham Singh. In this project, I have utilized SQL queries to analyze and solve various questions related to pizza sales data. The focus of this project is to extract valuable insights and trends by efficiently querying the dataset. Through this process, I have demonstrated my ability to work with SQL to handle real-world data scenarios and provide meaningful analysis.

SCHEMAS



Q. Retrieve the total number of orders placed ?

```
SELECT  
    COUNT(order_id) AS Total_Orders  
FROM  
    orders;
```

Result Grid			Filter Rows: <input type="text"/>	Export: 	Wrap Cell Content: 
	Total_Orders				
▶	21350				



Q. Calculate the total revenue generated from pizza sales ?



SELECT

ROUND(SUM(pizzahut.orders_details.quantity * pizzahut.pizzas.price),
2) AS Total_Revenue

FROM

pizzahut.orders_details

JOIN

pizzahut.pizzas ON pizzahut.orders_details.pizza_id = pizzahut.pizzas.pizza_id;

Result Grid			Filter Rows: <input type="text"/>	Export:	Wrap Cell Content:
	Total_Revenue				
▶	817860.05				

Q. Identify the most common pizza size ordered ?

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

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	Pizza_Size	Order_Count			
▶	L	18526			
	M	15385			
	S	14137			
	XL	544			
	XXL	28			



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

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

Result Grid		Filter Rows:	Export:	Wrap Cell Content:	Fetch rows:
	Pizza_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. Join the necessary tables to find the total quantity of each pizza category ordered?

```
SELECT
    pizzahut.pizza_types.category AS Category,
    SUM(pizzahut.orders_details.quantity) AS Total_Ordered
FROM
    pizzahut.pizza_types
    JOIN
    pizzahut.pizzas ON pizzahut.pizza_types.pizza_type_id = pizzahut.pizzas.pizza_type_id
    JOIN
    pizzahut.orders_details ON pizzahut.pizzas.pizza_id = pizzahut.orders_details.pizza_id
GROUP BY category
order by Total_Ordered desc;
```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	Category	Total_Ordered			
▶	Classic	14888			
	Supreme	11987			
	Veggie	11649			
	Chicken	11050			



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

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

Result Grid		Filter Rows:	Export:	Wrap Cell Content:	Fetch rows:
	Pizza_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. Determine the distribution of orders by hour of the day ?

```
SELECT
    HOUR(pizzahut.orders.order_time) AS Hour,
    COUNT(pizzahut.orders.order_id) AS Order_Count
FROM
    pizzahut.orders
GROUP BY Hour
ORDER BY Order_Count DESC;
```

Result Grid			Filter Rows:
	Hour	Order_Count	
▶	12	2520	
	13	2455	
	18	2399	
	17	2336	
	19	2009	
	16	1920	
	20	1642	
	14	1472	
	15	1468	
	11	1231	
	21	1198	
	22	663	
	23	28	
	10	8	
	9	1	



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

```
SELECT
    pizzahut.pizza_types.category,
    COUNT(pizzahut.pizza_types.name)
FROM
    pizzahut.pizza_types
GROUP BY pizzahut.pizza_types.category;
```


Result Grid			Filter Rows:
	category	COUNT(pizzahut.pizza_types.name)	
▶	Chicken	6	
	Classic	8	
	Supreme	9	
	Veggie	9	



Q. 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
        pizzahut.orders.order_date AS Date,
        SUM(pizzahut.orders_details.quantity) AS Quantity
    FROM
        pizzahut.orders
    JOIN pizzahut.orders_details ON pizzahut.orders.order_id = pizzahut.orders_details.order_id
    GROUP BY Date) AS Total_Quantity
```

Result Grid		 Filter Rows: <input type="text"/>	Export: 	Wrap Cell Content: 
	Avg_Pizza_Ordered_Per_Day			
▶	138			

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

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

Result Grid			Filter Rows:
	Pizza_Name	Revenue	
▶	The Thai Chicken Pizza	43434	
	The Barbecue Chicken Pizza	42768	
	The California Chicken Pizza	41410	



Q. Calculate the percentage contribution of each pizza type to total revenue ?

```
SELECT
    pizzahut.pizza_types.category,
    (ROUND(SUM(pizzahut.orders_details.quantity * pizzahut.pizzas.price) / (SELECT
        (SUM(pizzahut.orders_details.quantity * pizzahut.pizzas.price))
        FROM
            pizzahut.orders_details
            JOIN
                pizzahut.pizzas ON pizzahut.orders_details.pizza_id = pizzahut.pizzas.pizza_id) * 100,
        2)) AS Revenue
FROM
    pizzahut.pizza_types
    JOIN
        pizzahut.pizzas ON pizzahut.pizza_types.pizza_type_id = pizzahut.pizzas.pizza_type_id
    JOIN
        pizzahut.orders_details ON pizzahut.pizzas.pizza_id = pizzahut.orders_details.pizza_id
GROUP BY pizzahut.pizza_types.category
ORDER BY Revenue DESC;
```

Result Grid			Filter Rows:
	category	Revenue	
►	Classic	26.91	
	Supreme	25.46	
	Chicken	23.96	
	Veggie	23.68	



Q. Analyze the cumulative revenue generated over time ?

```

Select order_date,round(Revenue,2),round(Sum(Revenue)
over(order by order_date),2) as Cum_Revenue
From
(Select pizzahut.orders.order_date,
sum(pizzahut.orders_details.quantity*pizzahut.pizzas.price) as Revenue
from pizzahut.orders_details
join pizzahut.pizzas
on pizzahut.orders_details.pizza_id=pizzahut.pizzas.pizza_id
join pizzahut.orders
on pizzahut.orders.order_id=pizzahut.orders_details.order_id
group by pizzahut.orders.order_date) as Sales;
```

Result Grid			
Filter Rows:			
	order_date	round(Revenue,2)	Cum_Revenue
▶	2015-01-01	2713.85	2713.85
	2015-01-02	2731.9	5445.75
	2015-01-03	2662.4	8108.15
	2015-01-04	1755.45	9863.6
	2015-01-05	2065.95	11929.55
	2015-01-06	2428.95	14358.5
	2015-01-07	2202.2	16560.7
	2015-01-08	2838.35	19399.05
	2015-01-09	2127.35	21526.4
	2015-01-10	2463.95	23990.35
	2015-01-11	1872.3	25862.65
	2015-01-12	1919.05	27781.7
	2015-01-13	2049.6	29831.3
	2015-01-14	2527.4	32358.7
	2015-01-15	1984.8	34343.5
	2015-01-16	2594.15	36937.65
	2015-01-17	2064.1	39001.75
	2015-01-18	1976.85	40978.6
	2015-01-19	2387.15	43365.75
	2015-01-20	2397.9	45763.65



Q. 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 pizzahut.pizza_types.category,pizzahut.pizza_types.name,
round(sum(pizzahut.orders_details.quantity*pizzahut.pizzas.price),2) as Revenue
from pizzahut.pizza_types
join pizzahut.pizzas
on pizzahut.pizza_types.pizza_type_id=pizzahut.pizzas.pizza_type_id
join pizzahut.orders_details
on pizzahut.orders_details.pizza_id=pizzahut.pizzas.pizza_id
group by pizzahut.pizza_types.category,pizzahut.pizza_types.name) as a) as b
where rn<= 3;
```

Result Grid				Filter Rows:	Export:
	category	name	Revenue		
▶	Chicken	The Thai Chicken Pizza	43434.25		
	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		
	Supreme	The Spicy Italian Pizza	34831.25		
	Supreme	The Italian Supreme Pizza	33476.75		
	Supreme	The Sicilian Pizza	30940.5		
	Veggie	The Four Cheese Pizza	32265.7		
	Veggie	The Mexicana Pizza	26780.75		
	Veggie	The Five Cheese Pizza	26066.5		





THANK
YOU