

# Hello This is SQL Project on Pizza Sales

By Kuldeep Vighane

Here the presentation begins



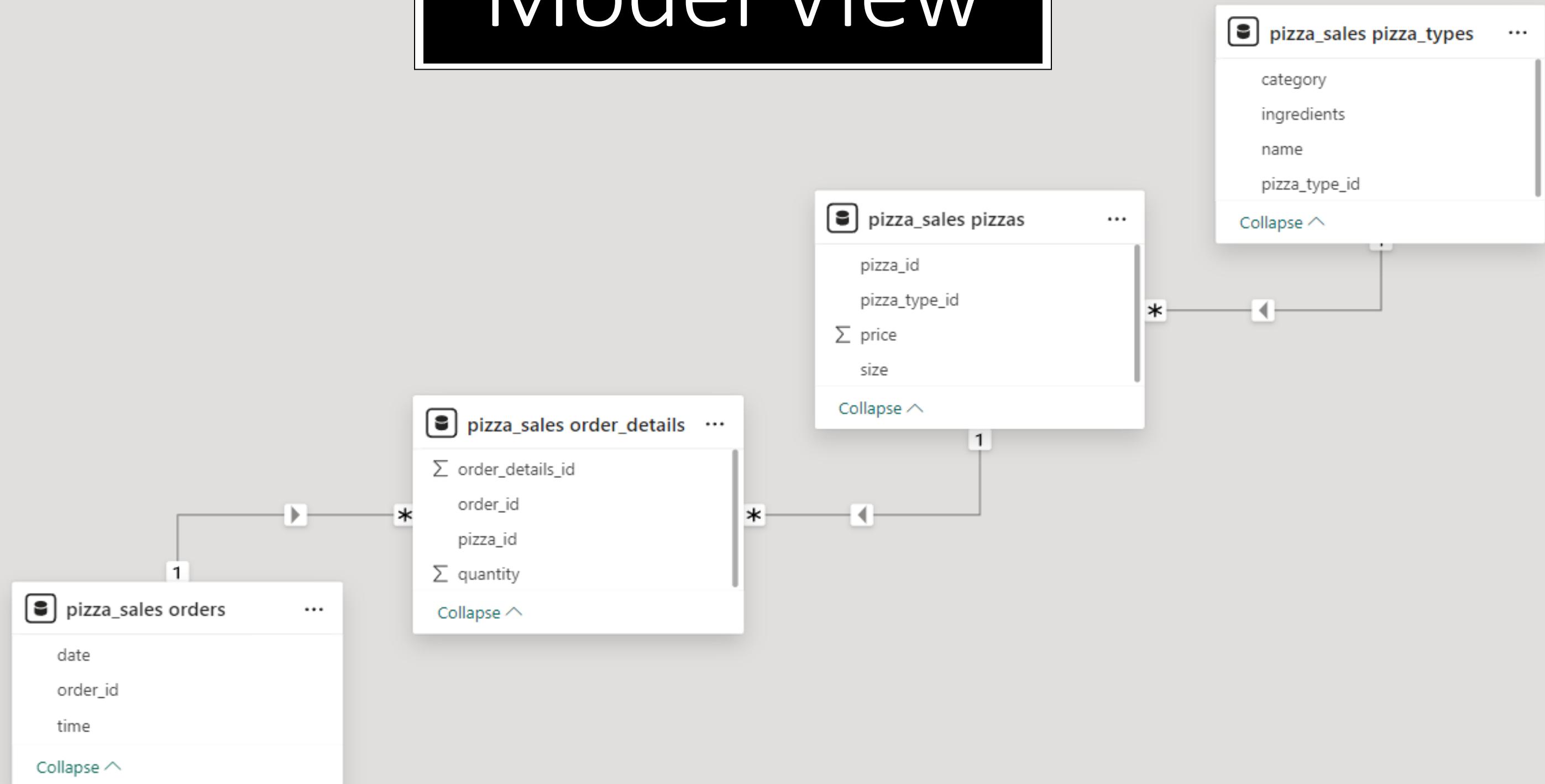
# HELLO I'm Kuldeep

I'm excited to share my latest project, a deep dive into pizza sales analysis using SQL. As a student passionate about data analytics, this project highlights my SQL skills and ability to derive meaningful insights from complex datasets. Join me as I showcase my proficiency in querying, data manipulation, and visualization, offering valuable perspectives for businesses in the food industry. Welcome to the unveiling of pizza sales insights: a testament to my commitment to mastering the art of data-driven decision-making.

# OBJECTIVES

This project aims to showcase proficiency in SQL querying and analytical skills by delving into pizza sales data. Key objectives include retrieving total orders and calculating revenue to understand customer demand and financial performance. Additionally, identifying pricing trends through the highest-priced pizza and analyzing size preferences will inform inventory management and menu decisions. Further, undertaking deeper analysis, such as order distribution and revenue trends, will uncover nuanced insights, demonstrating a comprehensive understanding of data analytics techniques.

# Model View



# Retrieve the total number of orders placed.

```
SELECT  
    COUNT(orders.order_id) AS total_orders  
FROM  
    orders;
```

Result Grid	
	total_orders
▶	21350



# 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** order\_details.pizza\_id = pizzas.pizza\_id;

	total_revenue
▶	817860.05

# Identify the highest-priced pizza.

- **SELECT**

```
    pizza_types.name, pizzas.price  
FROM  
    pizza_types  
        JOIN  
    pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id  
ORDER BY pizzas.price DESC  
LIMIT 1;
```

Result Grid | Filter Rows:

	name	price
▶	The Greek Pizza	35.95

# Identify the most common pizza size ordered.

Result Grid | Filter Rc

	size	count_by_size
▶	L	18526
	M	15385
	S	14137
	XL	544
	XXL	28

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

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

```
SELECT  
    pizza_types.name,  
    SUM(order_details.quantity) AS quantity_order  
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_order DESC  
LIMIT 5;
```

	name	quantity_order
▶	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.

- **SELECT**  
    **pizza\_types.category,**  
    **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.category**  
**ORDER BY quantity DESC;**

	category	quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

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

- `SELECT  
 HOUR(orders.time), SUM(orders.order_id) AS quantity  
 FROM  
 orders  
 GROUP BY HOUR(orders.time)  
 ORDER BY HOUR(orders.time);`

	hour(orders.time)	quantity
▶	9	19176
	10	73999
	11	13336362
	12	26929470
	13	26615205
	14	14867592
	15	15634879
	16	20551671
	17	24312547
	18	25808745
	19	21634044
	20	17668990
	21	12868673
	22	7269872
	23	330700

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 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 Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5
	The Classic Deluxe Pizza	39190.5

# Analyze the cumulative revenue generated over time.

- ```
SELECT date , sum(revenue) OVER (order by date)
  FROM
    (SELECT orders.date , sum(order_details.quantity * pizzas.price) AS revenue
     FROM pizzas JOIN order_details
       ON pizzas.pizza_id = order_details.pizza_id
      JOIN orders
       ON orders.order_id = order_details.order_id
    GROUP BY orders.date) AS sales;
```

|   | date       | sum(revenue<br>date) |
|---|------------|----------------------|
| ▶ | 2015-01-01 | 2713.8500            |
| ▶ | 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              |

# 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),  
                                                     FROM  
                                                       pizzas  
                                                       JOIN  
                                                       order_details ON pizzas.pizza_id = order_details.pizza_id) * 100,  
                                         2) AS revenue_in_per  
FROM  
  pizzas  
  JOIN  
  pizza_types 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;
```

|   | category | revenue_in_per |
|---|----------|----------------|
| ▶ | Classic  | 26.91          |
|   | Veggie   | 23.68          |
|   | Supreme  | 25.46          |
|   | Chicken  | 23.96          |

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

```
select pizza_types.category , count(pizza_types.name) from pizza_types  
group by pizza_types.category;
```

| category | count(pizza_types.name) |
|----------|-------------------------|
| Chicken  | 6                       |
| Classic  | 8                       |
| Supreme  | 9                       |
| Veggie   | 9                       |

# 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  |

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

- **SELECT**

```
    ROUND(AVG(quantity), 0) AS avg_qnt_order_per_dayy
```

```
FROM
```

```
(SELECT
```

```
    orders.date, SUM(order_details.quantity) AS quantity
```

```
FROM
```

```
orders
```

```
JOIN order_details ON orders.order_id = order_details.order_id
```

```
GROUP BY orders.date) AS avg_order;
```

| avg_qnt_order_per_dayy |
|------------------------|
| 138                    |

# THANKS!

Do you have any questions?

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