#### HELLO!

My name is Parminder Singh and in this project I have utilized SQL queries to solve questions related to pizza sales

#### QUESTIONS RELATED TO PIZZA SALES

#### Basic:

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

#### Intermediate:

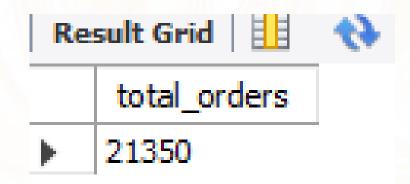
- 6 Join the necessary tables to find the total quantity of each pizza category ordered.
- 7 Determine the distribution of orders by hour of the day.
- 8 Join relevant tables to find the category-wise distribution of pizzas.
- 9 Group the orders by date and calculate the average number of pizzas ordered per day.
- 10 Determine the top 3 most ordered pizza types based on revenue.

#### Advanced:

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

# 1. RETTRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

SELECT
COUNT(order\_id) AS total\_orders
FROM
orders;



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

```
SELECT

ROUND(SUM(order_details.quantity * pizzas.price),

2) AS Expr1

FROM

order_details

INNER JOIN

pizzas ON order_details.pizza_id = pizzas.pizza_id;
```

Res	sult Grid		43
	Expr1		
-	817860.	05	
•	817860.	05	

#### 3. IDENTIFY THE HIGHEST PRICED PIZZA.

```
SELECT

pizza_types.name, pizzas.price

FROM

pizza_types

INNER JOIN

pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id

ORDER BY pizzas.price DESC

LIMIT 1;
```

name price	Re	esult Grid	🙌 Filter Ro	ows:
		name	price	
► The Greek Pizza 35.95	<b>)</b>	The Greek Pizza	35.95	

# 4. IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```
SELECT

pizzas.size,

COUNT(order_details.order_details_id) AS order_count

FROM

pizzas

INNER JOIN

order_details ON pizzas.pizza_id = order_details.pizza_id

GROUP BY pizzas.size

ORDER BY order_count DESC;
```

Re	sult Grid	Filter Rows:
	size	order_count
•	L	18526
	М	15385
	S	14137
	XL	544
	XXL	28

## 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

INNER JOIN

pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id

INNER JOIN

order_details ON order_details.pizza_id = pizzas.pizza_id

GROUP BY pizza_types.name

ORDER BY quantity DESC

LIMIT 5;
```

Result Grid		
	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

### 6. 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

INNER JOIN

pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id

INNER JOIN

order_details ON order_details.pizza_id = pizzas.pizza_id

GROUP BY pizza_types.category

ORDER BY quantity DESC;
```

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

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

SELECT

HOUR(order\_time) AS hour, COUNT(order\_id) AS order\_count

FROM

orders

GROUP BY HOUR(order\_time)

ORDER BY ORDER\_COUNT DESC;

Re	sult Grid	l 📗 🙌 Filter
	hour	order_count
<b>)</b>	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

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

```
SELECT
category, COUNT(name) AS count
FROM
pizza_types
GROUP BY category;
```

Re	Result Grid		
	category	count	
<b>•</b>	Chicken	6	
	Classic	8	
	Supreme	9	
	Veggie	9	

# 9. 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
orders.order_date, SUM(order_details.quantity) AS quantity

FROM
orders
INNER JOIN order_details ON orders.order_id = order_details.order_id

GROUP BY orders.order_date) AS order_quantity;
```



### 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
INNER JOIN
pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
INNER JOIN
order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY 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

#### 11. CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.

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

Result Grid 🔢 🙌 Filter I		
	category	revenue
>	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

# 12. ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

SELECT order\_date,

SUM(revenue) OVER(ORDER BY order\_date) AS cum\_revenue

from

(SELECT order\_date, SUM(order\_details.quantity \* pizzas.price) AS revenue

FROM order\_details INNER JOIN

pizzas ON order\_details.pizza\_id = pizzas.pizza\_id INNER JOIN

orders ON orders.order\_id = order\_details.order\_id

GROUP BY orders.order\_date) as sales;

Re	sult Grid 📗	Name of the Filter Rows:
	order_date	cum_revenue 🔺
<b>)</b>	2015-01-01	2713.8500000000004
	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

2015-12-24	807553.75
2015-12-26	809196.8
2015-12-27	810615.8
2015-12-28	812253
2015-12-29	813606.25
2015-12-30	814944.05
2015-12-31	817860.05

# 13. 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 INNER JOIN

pizzas ON pizza\_types.pizza\_type\_id = pizzas.pizza\_type\_id INNER 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;

Re	sult Grid 📗 🚷 Filter Rov	vs:
	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
	The Four Cheese Pizza	32265.70000000065
	The Mexicana Pizza	26780.75
	The Five Cheese Pizza	26066.5

### THANK YOU