



WELCOME TO

"PIZZA SALES ANALYSIS":

This project explores the sales data of a pizza restaurant to uncover meaningful business insights. Using SQL, we analyze various aspects of the dataset, such as order details, pizza types, quantities sold, and order times.

The goal is to identify trends like the most popular pizzas, bestperforming days, and peak hours of operation. These insights help in understanding customer behavior and improving overall business strategy.





BASIC ANALYSIS

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

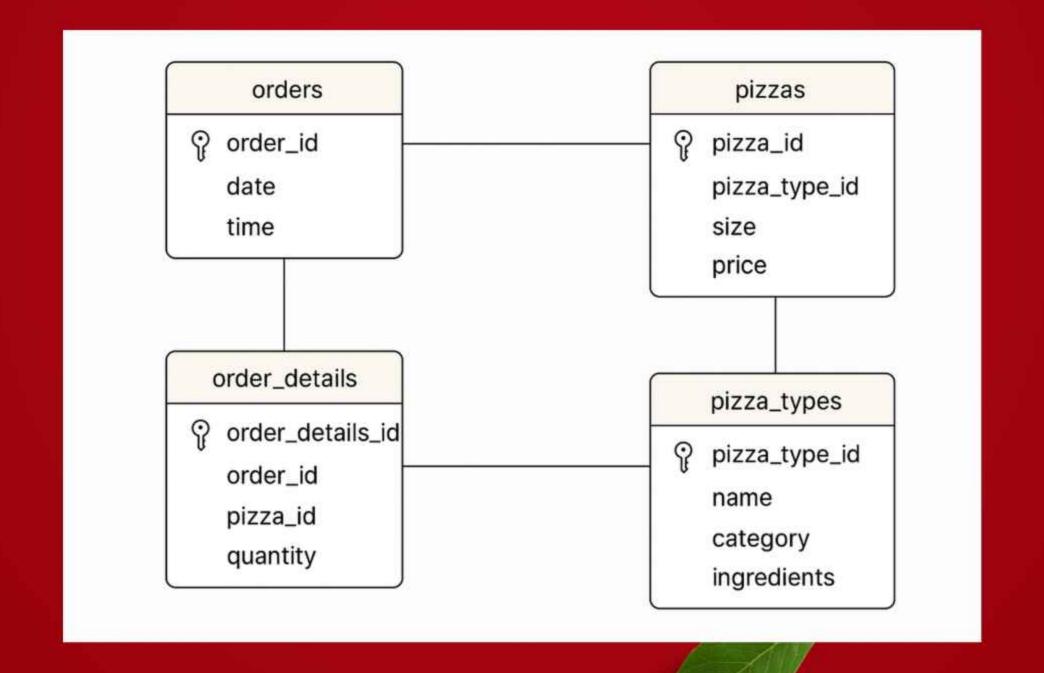
◆ INTERMEDIATE ANALYSIS

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

ADVANCED ANALYSIS

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

DATABASE SCHEMA OVERVIEW



QUS:1 RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

```
1 -- Retrieve the total number of orders placed.
2
3 • SELECT
4 *
5 FROM
6 orders;
7 • SELECT
8 COUNT(order_id) AS total_orders
9 FROM
10 orders;
```

OUTPUT:



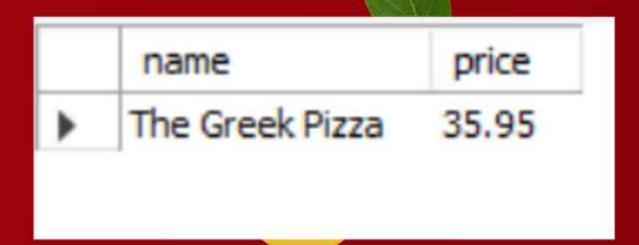
QUS:2 CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

OUTPUT:



QES:3 IDENTIFY THE HIGHEST-PRICED PIZZA.





QES:4 IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

OUTPUT:

	size	order_count
٠	L	18526
	M	15385
	S	14137
	XL	544
	XXL	28

QUES:5 LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES.

CALCULATE THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED.

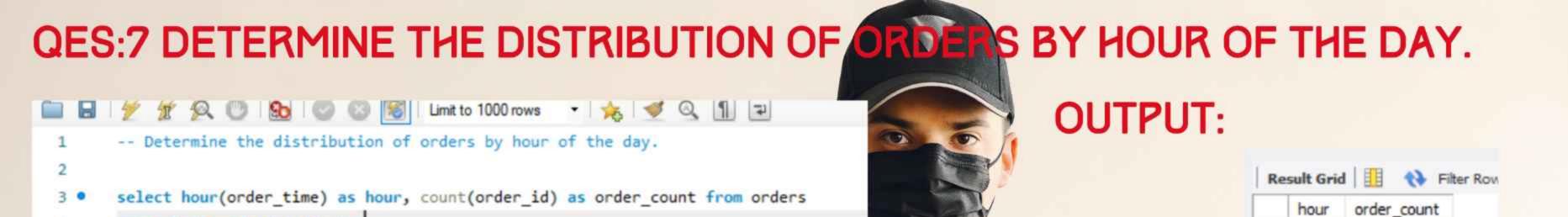


```
SELECT
           pizza_types.name, SUM(orders_details.quantity) AS quantity
       FROM
           pizza_types
               JOIN
           pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
10
           orders details ON orders details.pizza id = pizzas.pizza id
11
       GROUP BY pizza types.name
12
       ORDER BY quantity DESC
13
       LIMIT 5;
14
15
16
17
```

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



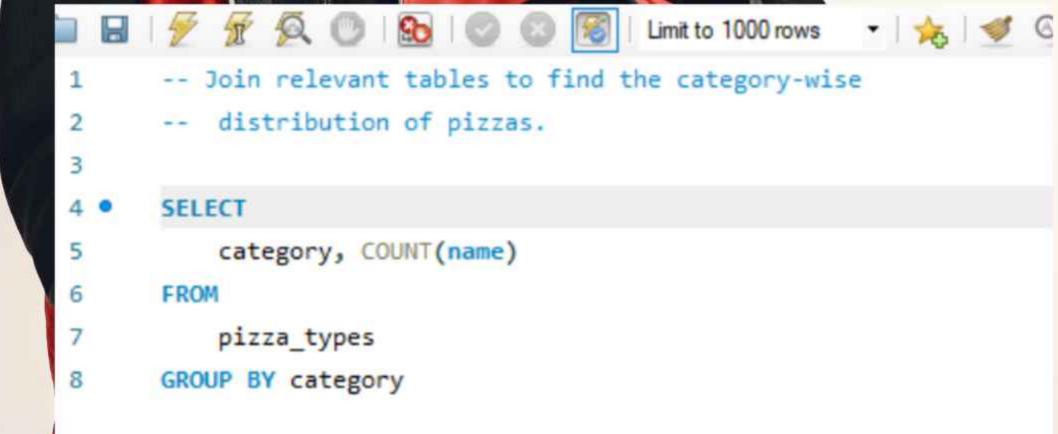
category quantity
Classic 14888
Supreme 11987
Veggie 11649
Chicken 11050



OUTPUT:

group by hour(order_time) ;

Re	esult Grid	₹ Filter Rows:	Ехро
	category	COUNT(name)	
	Chicken	6	
	Classic	8	
	Supreme	9	
	Veggie	9	





QES: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(orders_details.quantity) AS quantity
FROM
orders
JOIN orders_details ON orders.order_id = orders_details.order_id
GROUP BY orders.order_date) AS order_quantity;
```

QES:10 DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.



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

QES:12 DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY.

```
SELECT
           pizza types.category,
           (SUM(orders_details.quantity * pizzas.price) / (SELECT
           ROUND(SUM(orders_details.quantity * pizzas.price),
                   2) AS total sales
       FROM
           orders_details
10
11
               JOTN
           pizzas ON pizzas.pizza_id = orders_details.pizza_id))*100 as revenue
12
13
       FROM
           pizza types
15
               JOIN
           pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
16
               JOIN
17
           orders_details ON orders_details.pizza_id = pizzas.pizza_id
18
19
       GROUP BY pizza types.category
20
       ORDER BY revenue DESC
21
       LIMIT 4;
```

23.682590927384577

category

Classic

Supreme

Chicken

Veggie

revenue

26.90596025566967

25,45631126009862

23.955137556847287

23.682590927384577

```
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((orders_details.quantity) * pizzas.price) as revenue
       from pizza types join pizzas
9
       on pizza types.pizza type id = pizzas.pizza type id
10
       join orders details
11
       on orders_details.pizza_id = pizzas.pizza_id
12
       group by pizza_types.category, pizza_types.name) as a) as b
13
       where rn <= 3;
```



30940.5

The Sicilian Pizza





- Key Takeaways
- Successfully analyzed pizza sales data using SQL across four tables: orders, order_details, pizzas, and pizza_types.
- Extracted meaningful insights such as:
 - Total revenue and top-performing pizzas
 - Most popular pizza sizes and categories
 - Peak sales hours and daily order trends
- Skills Demonstrated
- SQL querying, joins, grouping, aggregation, and timebased analysis
- Real-world data interpretation for business strategy
- Clear visualization and structured reporting
- M Business Value
- Helped identify customer preferences and top-selling products
- Supported decisions on menu planning and promotions
- Enabled data-driven improvements for pizza sales strategy

PRESENTED BY: PRINCE
PIZZA SALES DATA ANALYSIS USING SQL
JUNE 2025