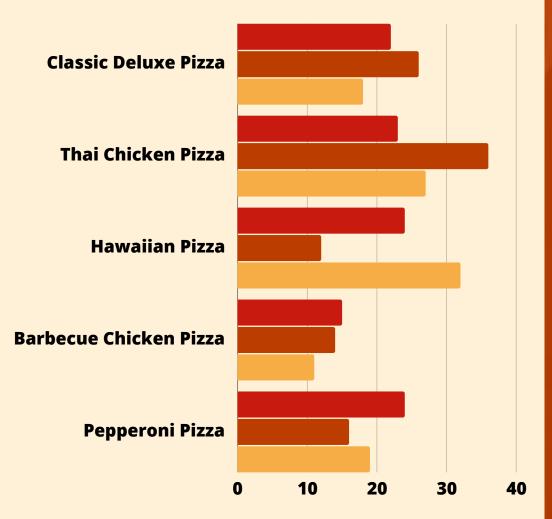


#### PIZZA SALES ANALYSIS

PRESENTED BY AMIT KUSHWAHA





#### Hello!

My name is Amit Kushwaha, In this project i have utilizes SQl queries to solve questions from basics to advanced level that are related to pizza sales





#### Introduction

Overview of the Pizza Sales Analysis project Objectives:

- Understand sales performance
- Identify top-selling pizzas
- Analyze customer purchasing behavior

The presentation is divided into several slides, each focusing on different aspects of the analysis.



#### **Database Setup**

#### This Database has following four tables

- 1. order\_details:
  - Contains details about each item in every order.
- 2. orders:
  - Contains information about each order placed.
- 3. pizza\_types:
  - Contains information about different types of pizzas available.
- 4. pizzas:
  - Contains information about pizzas such as their type and size.



# Retrieve the total number of orders placed

SELECT

COUNT(order\_id) AS total\_orders

FROM

orders;

	total_orders	
•	21350	





# Calculate the total revenue generated from pizza sales

```
SELECT

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

2) AS total_sales

FROM

order_details

JOIN

pizzas ON order_details.pizza_id = pizzas.pizza_id

;
```

total\_sales

817860.05





#### Identify the highest-priced pizza

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

	name	price
<b>•</b>	The Greek Pizza	35.95





### Identify the most common pizza size ordered

	size	order_count
<b>)</b>	L	18526
	M	15385
	S	14137
	XL	544
	XXL	28





### 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
        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 DESC
LIMIT 5;
```

	name 🔻	quantity
	The Thai Chicken Pizza	2371
	The Pepperoni Pizza	2418
	The Hawaiian Pizza	2422
	The Classic Deluxe Pizza	2453
Þ.	The Barbecue Chicken Pizza	2432





#### Join the necessary tables to find the total quantity of each pizza category ordered

```
• select pizza_types.category, sum(order_details.quantity) as total_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 total_quantity desc;
```

	category	total_quantity
<b>•</b>	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050





### 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);
```

	hour	order_count
•	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336
	18	2399
	19	2009
	20	1642
	21	1198
	22	663
	23	28
	10	8
	9	1





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

SELECT
 category, COUNT(name)
 FROM
 pizza\_types
 GROUP BY category;

	category	count(name)
•	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9



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

	pizza_ordered_per_day
<b>&gt;</b>	138





#### 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
<b>)</b>	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 pizza_types.category,
    ROUND(SUM(order_details.quantity * pizzas.price) / (SELECT
ROUND(SUM(order_details.quantity * pizzas.price),2) AS total sales
                FROM
                    order_details
                        JOIN
                    pizzas ON order_details.pizza_id = pizzas.pizza_id) * 100,
            2) A5 revenue
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOTN
    order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizza_types.category
ORDER BY revenue DESC ;
```

	category	revenue
٠	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68





### Analyze the cumulative revenue generated over time

```
select order_date, round(sum(revenue) over (order by order_date),2) as cum_revenue from
(select orders.order_date, sum(order_details.quantity*pizzas.price) as revenue
from order_details join pizzas
on order_details.pizza_id = pizzas.pizza_id
join orders
on orders.order_id = order_details.order_id
group by orders.order_date) as sales;
```

	order_date	cum_revenue
<b>)</b>	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	21526.4





#### 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;</pre>
```

	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

