

*SQL CASE
STUDY*

**DATA
ANALYSIS**



Introduction :

- COLLECTED DIFFERENT DATASETS OF PIZZA SALES , TYPE OF PIZZAS, CATEGORY OF PIZZAS, ORDER ID, DATE OF ORDERS, PRICE OF PIZZA ETC, USED VARIOUS SQL QUERIES AND FUNCTIONS FOR THE MANIPULATION OF VARIOUS INFORMATION FROM DATASET. TAKEN VARIOUS QUESTION AND FOUNDED THERE ANSWERS BY USING SQL AS A CASE STUDY.

Q.1: Retrieve the total number of orders placed.

```
1 • create database pizza;
2 • use pizza;
3 • select * from orders;
4
5
6 -- Retrieve the total number of orders placed.
7 • select count(order_id) from orders;
```

Result Grid



Filter Rows:

Export:






Wrap Cell Content:

count(order_id)
5753

Q.2: Calculate the total revenue generated from pizza sales.

```
1
2 • use pizza;
3
4 -- Calculate the total revenue generated from pizza sales.
5 • SELECT
6   ROUND(SUM(order_details.quantity * pizzas.price),
7         2) AS Total_sales
8 FROM
9   order_details
10  JOIN
11   pizzas ON pizzas.pizza_id = order_details.pizza_id
12
13
```

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Result Grid |  Filter Rows: | Export:  | Wrap Cell Content: 

	Total_sales
▶	283082.2

Q.3: Identify the highest-priced pizza.

```
1 • use pizza;
2
3 -- Identify the highest-priced pizza.
4 • SELECT
5     pizza_types.name, pizzas.price
6 FROM
7     pizza_types
8     JOIN
9     pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
10 ORDER BY pizzas.price DESC limit 1;
11
12
```


<

Result Grid |   Filter Rows: | Export:  | Wrap Cell Content:  | Fetch rows

	name	price
▶	The Greek Pizza	35.95

Q.4: Identify the most common pizza size ordered.





```
1 • use pizza;
2
3 -- Identify the most common pizza size ordered.
4 • SELECT
5     pizzas.size,
6     COUNT(order_details.order_details_id) AS order_count
7 FROM
8     pizzas
9     JOIN
10    order_details ON pizzas.pizza_id = order_details.pizza_id
11 GROUP BY pizzas.size
12 ORDER BY order_count DESC
13 LIMIT 1;
```

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Result Grid		
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	size	order_count
▶	L	6410

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

```
2
3  -- List the top 5 most ordered pizza types along with their quantities.
4  SELECT
5      pizza_types.name, SUM(order_details.quantity) AS quantity
6  FROM
7      pizza_types
8      JOIN
9      pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
10     JOIN
11     order_details ON order_details.pizza_id = pizzas.pizza_id
12 GROUP BY pizza_types.name
13 ORDER BY quantity DESC
14 LIMIT 5;
```

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Result Grid   Filter Rows: | Export:  | Wrap Cell Content:  | Fetch rows: 

	name	quantity
▶	The Barbecue Chicken Pizza	874
	The Hawaiian Pizza	846
	The Pepperoni Pizza	838
	The Classic Deluxe Pizza	813
	The Thai Chicken Pizza	808

Q.6: Join the necessary tables to find the total quantity of each pizza category ordered.

```
1 • use pizza;
2
3 -- Join the necessary tables to find the total quantity of each pizza category ordered.
4 • SELECT
5     pizza_types.category,
6     SUM(order_details.quantity) AS quantity
7 FROM
8     pizza_types
9     JOIN
10    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
11    JOIN
12    order_details ON order_details.pizza_id = pizzas.pizza_id
13 GROUP BY pizza_types.category
14 ORDER BY quantity DESC;
```

<

Result Grid Filter Rows: | Export: | Wrap Cell Content:

	category	quantity
▶	Classic	5093
	Supreme	4133
	Veggie	4090
	Chicken	3844

Q.7: Join relevant tables to find the category-wise distribution of pizzas.

```
1 • use pizza;
2
3 -- Join relevant tables to find the category-wise distribution of pizzas.
4 • SELECT
5     category, COUNT(name)
6 FROM
7     pizza_types
8 GROUP BY category;
```

<

Result Grid   Filter Rows: Export:  Wrap Cell Content: 

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

Q.8: Group the orders by date and calculate the average number of pizzas ordered per day.





```
1 • use pizza;
2
3 -- Group the orders by date and calculate the average number of pizzas ordered per day.
4 • SELECT
5     AVG(quantity)
6 FROM
7     (SELECT
8         orders.date, SUM(order_details.quantity) AS quantity
9     FROM
10        orders
11     JOIN order_details ON orders.order_id = order_details.order_id
12     GROUP BY orders.date) AS order_quantity;
```

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	avg(quantity)
▶	137.9278

Q.9: Determine the top 3 most ordered pizza types based on revenue.

```
1 • use pizza;
2
3 -- Determine the top 3 most ordered pizza types based on revenue.
4 • SELECT
5     pizza_types.name,
6     SUM(order_details.quantity * pizzas.price) AS revenue
7 FROM
8     pizza_types
9     JOIN
10    pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
11    JOIN
12    order_details ON order_details.pizza_id = pizzas.pizza_id
13 GROUP BY pizza_types.name
14 ORDER BY revenue DESC
15 LIMIT 3;
```

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	name	revenue
▶	The Barbecue Chicken Pizza	15447.5
	The Thai Chicken Pizza	14702
	The California Chicken Pizza	14114

Q.10: Calculate the percentage contribution of each pizza type to total revenue.

```
1 • use pizza;
2
3 -- Calculate the percentage contribution of each pizza type to total revenue.
4 • select pizza_types.category,
5 round(sum(order_details.quantity * pizzas.price)/ (select round(sum(order_details.quantity * pizzas.price),2) as total_sales
6
7 from order_details
8 join pizzas
9 on pizzas.pizza_id = order_details.pizza_id) * 100,2) as revenue
10
11 from pizza_types join pizzas
12 on pizza_types.pizza_type_id = pizzas.pizza_type_id
13 join order_details
14 on order_details.pizza_id = pizzas.pizza_id
15 group by pizza_types.category order by revenue desc ;
```

< Result Grid | Filter Rows: | Export: | Wrap Cell Content:

	category	revenue
▶	Classic	26.61
	Supreme	25.33
	Chicken	24.08
	Veggie	23.97

THANKS