



# SQL PROJECT ON PIZZA SALES REPORT



A close-up photograph of a hand holding a wooden spoon, stirring a pan of pasta with cherry tomatoes. The pan sits on a stovetop burner. In the background, there are some kitchen items like a salt shaker and a small bowl.

# GREETINGS!

*I'm Muhammad Talha, and I'm excited to present to you an in-depth analysis of pizza sales data. Through this presentation, we'll delve into the intricate details of pizza consumption trends, revenue patterns, and customer preferences, all distilled from extensive SQL queries and analysis.*

*Let's embark on a flavorful journey through the world of pizza sales!"*

- 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 pizzas.pizza_id = order_details.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 5;
```

	name	price
▶	The Greek Pizza	35.95
	The Greek Pizza	25.5
	The Brie Carre Pizza	23.65
	The Italian Vegetables Pizza	21
	The Barbecue Chicken Pizza	20.75



- IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

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

	size	order_count
▶	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 most_ordered_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 most_ordered_quantity DESC  
LIMIT 5;
```

	name	most_ordered_quantity
▶	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.order_time) AS hour,  
    COUNT(order_details.quantity) AS order_count  
FROM  
    orders  
        JOIN  
            order_details ON orders.order_id = order_details.order_id  
GROUP BY hour  
ORDER BY order_count DESC  
LIMIT 5;
```

	hour	order_count
▶	12	6543
	13	6203
	18	5359
	17	5143
	19	4350



- 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.

```
SELECT
```

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

```
FROM
```

```
(SELECT
```

```
    orders.order_date AS orders_day,  
    SUM(order_details.quantity) AS quantity
```

```
FROM
```

```
orders
```

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

```
GROUP BY orders_day) AS order_quantity;
```

	orders_per_day
▶	138



- DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.

SELECT

```
    pizza_types.name AS pizza_names,  
    ROUND(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_names  
ORDER BY revenue DESC  
LIMIT 3;
```

	pizza_names	revenue
▶	The Thai Chicken Pizza	43434
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41410



- 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)
    FROM
        order_details
        JOIN
            pizzas ON order_details.pizza_id = pizzas.pizza_id) * 100)) 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
ORDER BY revenue DESC;
```

	category	percentage_revenue
▶	Classic	27
	Supreme	25
	Veggie	24
	Chicken	24



- ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```
SELECT order_date, round(sum(revenue)
OVER(ORDER BY order_date)) AS cum_revenue
FROM
  (SELECT orders.order_date,
SUM(order_details.quantity * pizzas.price) AS revenue
FROM orders
JOIN
  order_details ON orders.order_id = order_details.order_id
JOIN
  pizzas ON pizzas.pizza_id = order_details.pizza_id
GROUP BY orders.order_date) AS sales;
```

	order_date	cum_revenue
▶	2015-01-01	2714
	2015-01-02	5446
	2015-01-03	8108
	2015-01-04	9864
	2015-01-05	11930
	2015-01-06	14358



- 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 apple) AS banana  
    WHERE rn <= 3;
```

	NAME	revenue
▶	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5



# CONTACT ME

You can order the food from the mobile or by email.

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# THANK YOU

