

PIZZA SALES ANALYSIS BY USING SIL

Presented by

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AGENDA

- **❖** About the Project
- **♦** List of tables used
- ❖ In detailed analysis
- **❖** Key take aways



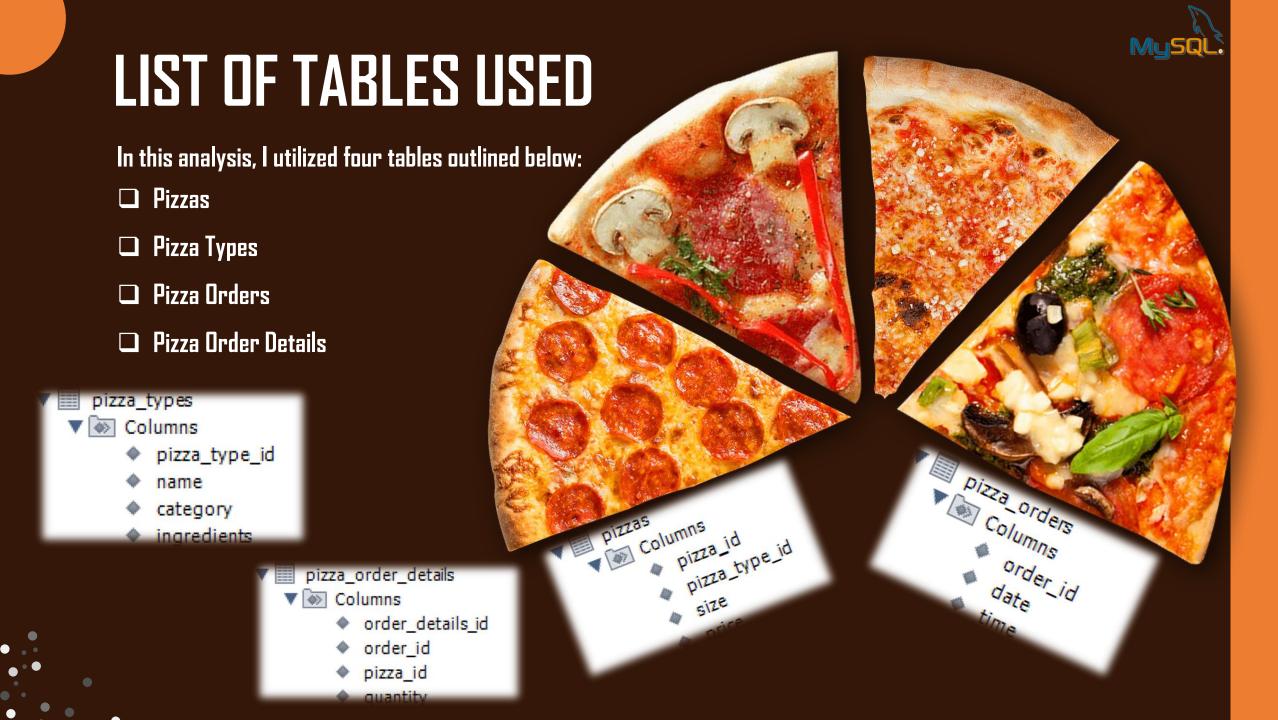
ABOUT THE PROJECT

Hello Data Planet, my name is Inturi Suparna Babu, and I am excited to present my project on Pizza Sales Analysis using SQL. This project focuses on analysing pizza sales data for the year 2015. Through this analysis, I have explored various aspects of pizza sales, including the number of orders, revenue generation, and other insightful metrics.

By utilizing SQL, I have been able to extract meaningful insights from the dataset, which consists of detailed information on pizza types, prices, and order quantities. This analysis aims to provide a comprehensive understanding of the sales dynamics and performance of different pizza offerings over the course of the year.

Join me as I delve into the data and uncover key trends and patterns that can help drive business decisions and strategies for optimizing pizza sales.



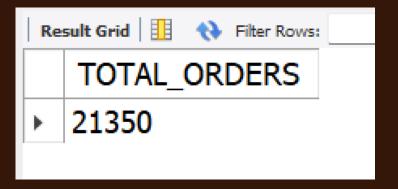




Query The Total Number Of Orders Placed?



```
SELECT
    COUNT(ORDER_ID) AS TOTAL_ORDERS
FROM
    PIZZA_ORDERS;
```

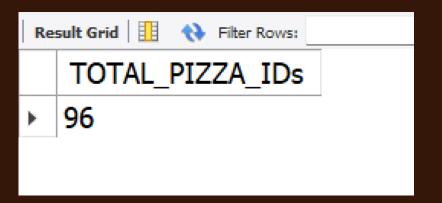




Query The Total Number Of Pizza Id Types?



```
SELECT
    COUNT(DISTINCT PIZZA_ID) AS TOTAL_PIZZA_IDs
FROM
    PIZZAS;
```





Query The Total Number Of Pizza Types?



```
SELECT
    COUNT(DISTINCT PIZZA_TYPE_ID) AS TOTAL_PIZZA_TYPEs
FROM
    PIZZAS;
```

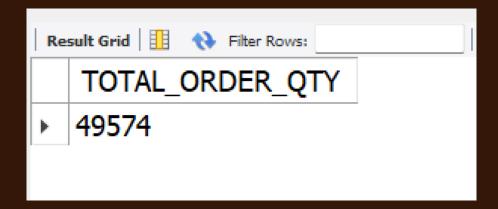




Query Total Order Quantity Placed?



```
SELECT
SUM(QUANTITY) AS TOTAL_ORDER_QTY
FROM
PIZZA_ORDER_DETAILS;
```

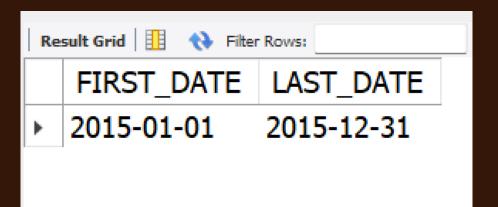




Query The First Date Of Transction And Last Date Of Transaction?



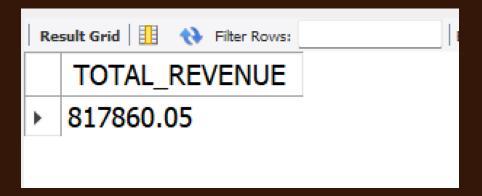
```
SELECT
    MIN(DATE) AS FIRST_DATE, MAX(DATE) AS LAST_DATE
FROM
    PIZZA_ORDERS;
```





Query The Total Revenue Generated?

```
SELECT
    ROUND(SUM(PRICE * QUANTITY), 2) AS TOTAL_REVENUE
FROM
    PIZZAS A
        JOIN
    PIZZA_ORDER_DETAILS B ON A.PIZZA_ID = B.PIZZA_ID;
```





Query The Highest Priced Pizza? #Display Pizza Name, Price

```
SELECT

A.NAME AS PIZZA_NAME, B.PRICE

FROM

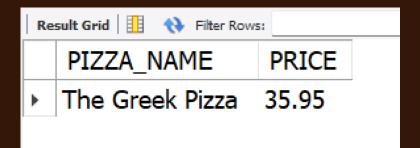
PIZZA_TYPES A

JOIN

PIZZAS B ON A.PIZZA_TYPE_ID = B.PIZZA_TYPE_ID

ORDER BY B.PRICE DESC

LIMIT 1;
```







Query The Lowset Priced Pizza? #Display Pizza Name, Price

```
MySQL.
```

```
SELECT
A.NAME, B.PRICE

FROM

PIZZA_TYPES A

JOIN

PIZZAS B ON A.PIZZA_TYPE_ID = B.PIZZA_TYPE_ID

ORDER BY B.PRICE ASC

LIMIT 1;
```





Query The Pizza Ordered Qty By Size?

```
SELECT

A.SIZE, SUM(B.QUANTITY) AS ORDER_QTY

FROM

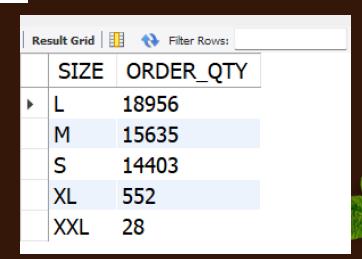
PIZZAS A

JOIN

PIZZA_ORDER_DETAILS B ON A.PIZZA_ID = B.PIZZA_ID

GROUP BY A.SIZE

ORDER BY ORDER_QTY DESC;
```





Query The Pizza Ordered Qty By Category?

```
SELECT
    C.CATEGORY, SUM(D.QUANTITY) AS ORDER_QTY
FROM
    (SELECT
        A.CATEGORY, B.PIZZA_ID
    FROM
        PIZZA_TYPES A
    JOIN PIZZAS B ON A.PIZZA_TYPE_ID = B.PIZZA_TYPE_ID) C
        JOIN
    PIZZA_ORDER_DETAILS D ON C.PIZZA_ID = D.PIZZA_ID
GROUP BY C.CATEGORY
ORDER BY ORDER_QTY DESC;
```

Result Grid			
	CATEGORY	ORDER_QTY	
•	Classic	14888	
	Supreme	11987	
	Veggie	11649	
	Chicken	11050	



Query The Pizza Ordered Qty By Pizza Name?

```
SELECT
    C.NAME AS PIZZA_NAME, SUM(D.QUANTITY) AS ORDER_QTY
FROM
    (SELECT
        A.NAME, B.PIZZA ID
    FROM
        PIZZA_TYPES A
    JOIN PIZZAS B ON A.PIZZA TYPE ID = B.PIZZA TYPE ID) C
        JOIN
    PIZZA_ORDER_DETAILS D ON C.PIZZA_ID = D.PIZZA_ID
GROUP BY PIZZA_NAME
ORDER BY ORDER_QTY DESC;
```

Re	sult Grid 1	Export: Wrap Cell Content
	PIZZA_NAME	ORDER_QTY
•	The Classic Deluxe Pizza	2453
	The Barbecue Chicken Pizza	2432
	The Hawaiian Pizza	2422
	The Pepperoni Pizza	2418
	The Thai Chicken Pizza	2371



Query The Top 7 Types Based Orders Qty? Display Pizza Name, Order Qty



```
SELECT
    C.NAME, SUM(D.QUANTITY) AS TOTAL_ORDERQTY
FROM
    (SELECT
        A.NAME, B.PIZZA ID
    FROM
        PIZZA TYPES A
    JOIN PIZZAS B ON A.PIZZA_TYPE_ID = B.PIZZA_TYPE_ID) C
        JOIN
    PIZZA_ORDER_DETAILS D ON C.PIZZA_ID = D.PIZZA_ID
GROUP BY C.NAME
ORDER BY TOTAL_ORDERQTY DESC
LIMIT 7;
```

Result Grid The Filter Rows: Export: Wrap Ce			
	NAME	TOTAL_ORDERQTY	
•	The Classic Deluxe Pizza	2453	
	The Barbecue Chicken Pizza	2432	
	The Hawaiian Pizza	2422	
	The Pepperoni Pizza	2418	
	The Thai Chicken Pizza	2371	
	The California Chicken Pizza	2370	
	The Sicilian Pizza	1938	



Query The Distribution Of Orders By Hour Of Day?

```
SELECT
    HOUR(TIME) AS HOUR, COUNT(ORDER_ID) AS ORDERQTY
FROM
    PIZZA_ORDERS
GROUP BY HOUR
ORDER BY ORDERQTY DESC;
```

Result Grid			
	HOUR	ORDERQTY	
	12	2520	
	13	2455	
	18	2399	
	17	2336	
	19	2009	
	16	1920	
	20	1642	



Query The Pizza Order Qty By Date And Calculate The Average Numbers Of Pizzas Ordered Per Day?



```
SELECT

ROUND(AVG(ORDEREDQTY)) AS AVGORDERPIZZAQTY

FROM

(SELECT

A.DATE, SUM(B.QUANTITY) AS ORDEREDQTY

FROM

PIZZA_ORDERS A

JOIN PIZZA_ORDER_DETAILS B ON A.ORDER_ID = B.ORDER_ID

GROUP BY A.DATE

ORDER BY ORDEREDQTY DESC) AS C;
```





Query The Top 7 Pizza Names By Revenue? #Display Pizza Name, Revenue, Orderqty



```
SELECT
    C.NAME,
    SUM(C.PRICE * E.QUANTITY) AS REVENUE,
    SUM(QUANTITY) AS TTLORDERQTY
FROM
    (SELECT
        A.NAME, B.PRICE, B.PIZZA ID
    FROM
        PIZZA_TYPES A
    JOIN PIZZAS B ON A.PIZZA_TYPE_ID = B.PIZZA_TYPE_ID) C
        JOIN
    PIZZA ORDER DETAILS E ON C.PIZZA ID = E.PIZZA ID
GROUP BY C.NAME
ORDER BY REVENUE DESC
LIMIT 7;
```

Re	Result Grid III 💎 Filter Rows: Export: III Wrap Cell Content: 🚻 Fetch row			
	NAME	REVENUE	TTLORDERQTY	
•	The Thai Chicken Pizza	43434.25	2371	
	The Barbecue Chicken Pizza	42768	2432	
	The California Chicken Pizza	41409.5	2370	
	The Classic Deluxe Pizza	38180.5	2453	
	The Spicy Italian Pizza	34831.25	1924	
	The Southwest Chicken Pi	34705.75	1917	
	The Italian Supreme Pizza	33476.75	1884	



Query The Percentage Contribution Of Each Pizza Category To Total Revenue?



```
SELECT
    A.CATEGORY,
    ROUND(SUM(A.PRICE * C.QUANTITY) / (SELECT
                    SUM(A.PRICE * B.QUANTITY) AS TOTAL REVENUE
                FROM
                    PIZZAS A
                        JOIN
                    PIZZA_ORDER_DETAILS B ON A.PIZZA_ID = B.PIZZA_ID) * 100,
            AS REVENUEPERCENTAGE
FROM
    (SELECT
        A.CATEGORY, B.PIZZA ID, B.PRICE
    FROM
        PIZZA TYPES A
    JOIN PIZZAS B ON A.PIZZA_TYPE_ID = B.PIZZA_TYPE_ID) A
        JOIN
    PIZZA ORDER DETAILS C ON A.PIZZA ID = C.PIZZA ID
GROUP BY A.CATEGORY
ORDER BY REVENUEPERCENTAGE DESC;
```

Result Grid			
	CATEGORY	REVENUEPERCENTAGE	
٠	Classic	26.91	
	Supreme	25.46	
	Chicken	23.96	
	Veggie	23.68	



Analyse the cumulative revenue generated over time?

```
SELECT
 DATE,
  ROUND(SUM(TTLREVENUE) OVER(ORDER BY DATE),2) AS CUM REVENUE
FROM
  (SELECT B.DATE, SUM(REVENUE) AS TTLREVENUE
    FROM (SELECT
          A.ORDER_ID,
          SUM(A.QUANTITY * B.PRICE) AS REVENUE
        FROM
          PIZZA ORDER DETAILS A
          JOIN PIZZAS B ON A.PIZZA ID = B.PIZZA ID
        GROUP BY
          A.ORDER ID
      ) A
      JOIN PIZZA_ORDERS B ON A.ORDER_ID = B.ORDER ID
   GROUP BY
      B.DATE
   AS RVN;
```

Result Grid				
	DATE	CUM_REVENUE		
•	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 Category?



```
SELECT NAME, CATEGORY, REVENUE FROM(
SELECT *, RANK() OVER(PARTITION BY CATEGORY ORDER BY REVENUE DESC) AS RNK
FROM(
SELECT A.NAME, A.CATEGORY, SUM(B.QUANTITY * A.PRICE) AS REVENUE
FROM (
SELECT A.NAME, A.CATEGORY, B.PIZZA ID, B.PRICE
FROM PIZZA TYPES A
JOIN PIZZAS B
ON A.PIZZA_TYPE_ID = B.PIZZA_TYPE_ID) A
JOIN PIZZA_ORDER_DETAILS B
ON A.PIZZA_ID = B.PIZZA_ID
GROUP BY A.NAME, A.CATEGORY) A) B
WHERE RNK <=3;
```

Re	Result Grid III 🚷 Filter Rows: Export: III Wrap Cell Content: 🚻			
	NAME	CATEGORY	REVENUE	
•	The Thai Chicken Pizza	Chicken	43434.25	
	The Barbecue Chicken Pizza	Chicken	42768	
	The California Chicken Pizza	Chicken	41409.5	
	The Classic Deluxe Pizza	Classic	38180.5	
	The Hawaiian Pizza	Classic	32273.25	
	The Pepperoni Pizza	Classic	30161.75	
	The Spicy Italian Pizza	Supreme	34831.25	
	The Italian Supreme Pizza	Supreme	33476.75	
	The Sicilian Pizza	Supreme	30940.5	

Key Takeaways

MySQL.

- ✓ The most ordered pizza size was Large, with an order quantity of 18,956, while the XXL size is underperforming.
- ✓ The Classic pizza category had the highest order quantity at 14,888, whereas the Chicken category had the lowest at 11,050 orders.
- \checkmark Most orders occur during afternoon lunch hours (12:00-13:00) and evening hours (17:00-19:00).
- \checkmark The average pizza order quantity is 138.
- ✓ The top 7 pizzas based on order quantity are:
 - The Classic Deluxe Pizza
 - The Barbecue Chicken Pizza
 - The Hawaiian Pizza
 - The Pepperoni Pizza
 - The Thai Chicken Pizza
 - The California Chicken Pizza
 - The Sicilian Pizza

 \checkmark The Classic category generates the highest revenue percentage at 26.91%.



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