

sales

PIZZA



**Hello, my name is Priyal Keswani.
In this project, I have solved SQL
queries ranging from basic to
advanced levels and provided
answers to various questions
related to pizza sales.**

WHAT TABLES DATABASE CONTAIN

1) PIZZAS - PIZZA_ID, PIZZA_TYPE_ID , SIZE ,
PRICE

2) PIZZA_TYPE - PIZZA_TYPE_ID, NAME ,
CATEGORY , INGREDIENTS

3) ORDERS - ORDER_ID , ORDER_DATE ,
ORDER_TIME

4) ORDER_DETAILS - ORDER_ID ,
ORDER_DETAILS_ID , PIZZA_ID , QUANTITY

QUESTIONS SOLVED

Basic:

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

Intermediate:




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

Advanced:

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

BASIC - 1)Retrieve the total number of orders placed.

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

Result Grid				Filter
	TOTAL_ORDERS			
	21350			



BASIC- 2)Calculate the total revenue generated from pizza sales.

```
• SELECT
    T.NAME, P.PRICE
FROM
    PIZZA_TYPES T
    JOIN
    PIZZAS P ON P.PIZZA_TYPE_ID = T.PIZZA_TYPE_ID
ORDER BY P.PRICE DESC
LIMIT 1;
```

Result Grid			Filter Rows:
	NAME	PRICE	
▶	The Greek Pizza	35.95	

BASIC-3) Identify the most common pizza size ordered.

```
SELECT
    P.SIZE, COUNT(D.ORDER_DETAILS_ID) AS ORDER_COUNT
FROM
    PIZZAS P
    JOIN
    ORDER_DETAILS D ON P.PIZZA_ID = D.PIZZA_ID
GROUP BY P.SIZE
ORDER BY ORDER_COUNT DESC;
```

Result Grid					Filter
	SIZE	ORDER_COUNT			
▶	L	18526			
	M	15385			
	S	14137			
	XL	544			
	XXL	28			



BASIC-4) List the top 5 most ordered pizza types along with their quantities.

```
SELECT
    T.PIZZA_TYPE_ID , T.NAME, SUM(D.QUANTITY) AS QUANTITY
FROM
    PIZZAS P
    JOIN
        PIZZA_TYPES T ON P.PIZZA_TYPE_ID = T.PIZZA_TYPE_ID
    JOIN
        ORDER_DETAILS D ON P.PIZZA_ID = D.PIZZA_ID
GROUP BY T.NAME , T.PIZZA_TYPE_ID
ORDER BY QUANTITY DESC
LIMIT 5;
```

	PIZZA_TYPE_ID	NAME	QUANTITY
▶	classic_dlx	The Classic Deluxe Pizza	2453
	bbq_ckn	The Barbecue Chicken Pizza	2432
	hawaiian	The Hawaiian Pizza	2422
	pepperoni	The Pepperoni Pizza	2418
	thai_ckn	The Thai Chicken Pizza	2371



INTERMEDIATE-1)Join the necessary tables to find the total quantity of each pizza category ordered.

```
SELECT
    T.CATEGORY, SUM(D.QUANTITY) AS TOTAL_QTY
FROM
    PIZZA_TYPES T
    JOIN
    PIZZAS P ON P.PIZZA_TYPE_ID = T.PIZZA_TYPE_ID
    JOIN
    ORDER_DETAILS D ON D.PIZZA_ID = P.PIZZA_ID
GROUP BY T.CATEGORY
ORDER BY TOTAL_QTY DESC;
```

Result Grid				 Filter Rows
	CATEGORY	TOTAL_QTY		
▶	Classic	14888		
	Supreme	11987		
	Veggie	11649		
	Chicken	11050		



INTERMEDIATE-2) Determine the distribution of orders by hour of the day.

```
SELECT
    HOUR(ORDER_TIME) AS HOUR, COUNT(ORDER_ID) AS COUNT_ORDER_ID
FROM
    ORDERS
GROUP BY HOUR(ORDER_TIME)
ORDER BY COUNT_ORDER_ID DESC;
```

Result Grid				 Filter Row
	HOUR	COUNT_ORDER_ID		
▶	12	2520		
	13	2455		
	18	2399		
	17	2336		
	19	2009		
	16	1920		
	20	1642		
	14	1472		

INTERMEDIATE-3)Join relevant tables to find the category-wise distribution of pizzas.

```
SELECT
    CATEGORY, COUNT(NAME)
FROM
    PIZZA_TYPES
GROUP BY CATEGORY;
```

Result Grid  Filter Rows: 		
	CATEGORY	COUNT(NAME)
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

INTERMEDIATE-4) Group the orders by date and calculate the average number of pizzas ordered per day.

```
SELECT
    ROUND(AVG(QUANTITY),0) AS AVG_QTY
FROM
    (SELECT
        O.ORDER_DATE, SUM(D.QUANTITY) AS QUANTITY
    FROM
        ORDERS O
    JOIN ORDER_DETAILS D ON O.ORDER_ID = D.ORDER_ID
    GROUP BY O.ORDER_DATE , D.QUANTITY) AS ORDER_QUANTITY;
```

Result Grid	
	AVG_QTY
▶	70

INTERMEDIATE-5) Determine the top 3 most ordered pizza types based on revenue.

```
SELECT
    T.PIZZA_TYPE_ID,
    T.NAME,
    SUM(D.QUANTITY * P.PRICE) AS REVENUE
FROM
    PIZZA_TYPES T
    JOIN
    PIZZAS P ON P.PIZZA_TYPE_ID = T.PIZZA_TYPE_ID
    JOIN
    ORDER_DETAILS D ON D.PIZZA_ID = P.PIZZA_ID
GROUP BY T.PIZZA_TYPE_ID , T.NAME
ORDER BY REVENUE DESC
LIMIT 3;
```

Result Grid				Filter Rows:	Export:
	PIZZA_TYPE_ID	NAME	REVENUE		
▶	thai_chn	The Thai Chicken Pizza	43434.25		
	bbq_chn	The Barbecue Chicken Pizza	42768		
	cali_chn	The California Chicken Pizza	41409.5		

ADVANCED-1) Calculate the percentage contribution of each pizza type to total revenue.

```
SELECT
    T.CATEGORY,
    ROUND((SUM(D.QUANTITY * P.PRICE) / (SELECT
        ROUND(SUM(D.QUANTITY * P.PRICE), 2) AS TOTAL_SALES
    FROM
        PIZZAS P
        JOIN
            ORDER_DETAILS D ON P.PIZZA_ID = D.PIZZA_ID))) * 100, 2) AS REVENUE
FROM
    PIZZAS P
    JOIN
        PIZZA_TYPES T ON P.PIZZA_TYPE_ID = T.PIZZA_TYPE_ID
    JOIN
        ORDER_DETAILS D ON D.PIZZA_ID = P.PIZZA_ID
GROUP BY T.CATEGORY
ORDER BY REVENUE DESC;
```

Result Grid			Filter
	CATEGORY	REVENUE	
▶	Classic	26.91	
	Supreme	25.46	
	Chicken	23.96	
	Veggie	23.68	

ADVANCE-2) Analyze the cumulative revenue generated over time.

```
SELECT ORDER_DATE , ROUND(SUM(REVENUE) OVER(ORDER BY ORDER_DATE),2) AS CUMULATIVE_REVENUE
FROM
(SELECT O.ORDER_DATE ,
SUM(D.QUANTITY*P.PRICE) AS REVENUE FROM
ORDER_DETAILS D JOIN PIZZAS P ON D.PIZZA_ID = P.PIZZA_ID
JOIN ORDERS O ON O.ORDER_ID = D.ORDER_ID
GROUP BY O.ORDER_DATE ) AS SALES ;
```

	ORDER_DATE	CUMULATIVE_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	21500.4

ADVANCE-3) 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 RNN
FROM
(SELECT T.CATEGORY , T.NAME , SUM(D.QUANTITY*P.PRICE) AS REVENUE FROM
PIZZA_TYPES T JOIN PIZZAS P ON T.PIZZA_TYPE_ID = P.PIZZA_TYPE_ID
JOIN ORDERS_DETAILS D ON D.PIZZA_ID = P.PIZZA_ID
GROUP BY T.CATEGORY , T.NAME) AS A )
AS B WHERE RN<=3 ;
```

Result Grid			Filter Rows:	Exp
	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 Sirilian Pizza	30940.5		

*Thank
You*