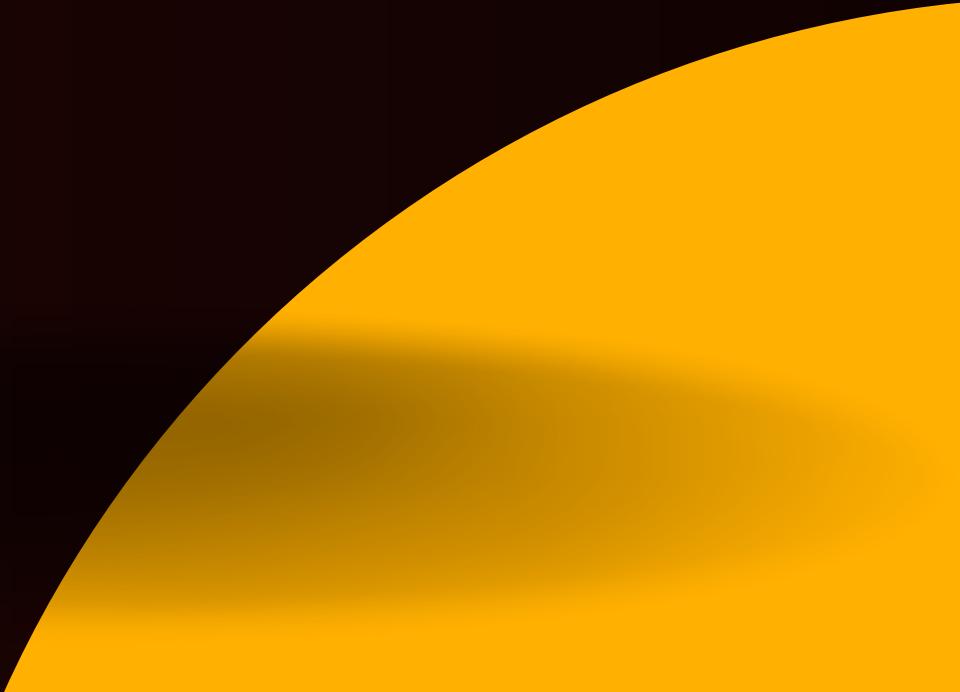


PIZZA SALES ANALYSIS USING MYSQL



INTRODUCTION

THIS PROJECT FOCUSES ON ANALYZING PIZZA SALES DATA USING MYSQL TO UNDERSTAND CUSTOMER BEHAVIOR, SALES TRENDS, AND BUSINESS PERFORMANCE. THE DATASET CONTAINS INFORMATION ABOUT ORDERS, PIZZAS, CATEGORIES, SIZES, PRICES, AND ORDER TIME.

BY WRITING SQL QUERIES, MEANINGFUL INSIGHTS WERE EXTRACTED TO HELP THE BUSINESS IMPROVE REVENUE AND DECISION-MAKING.

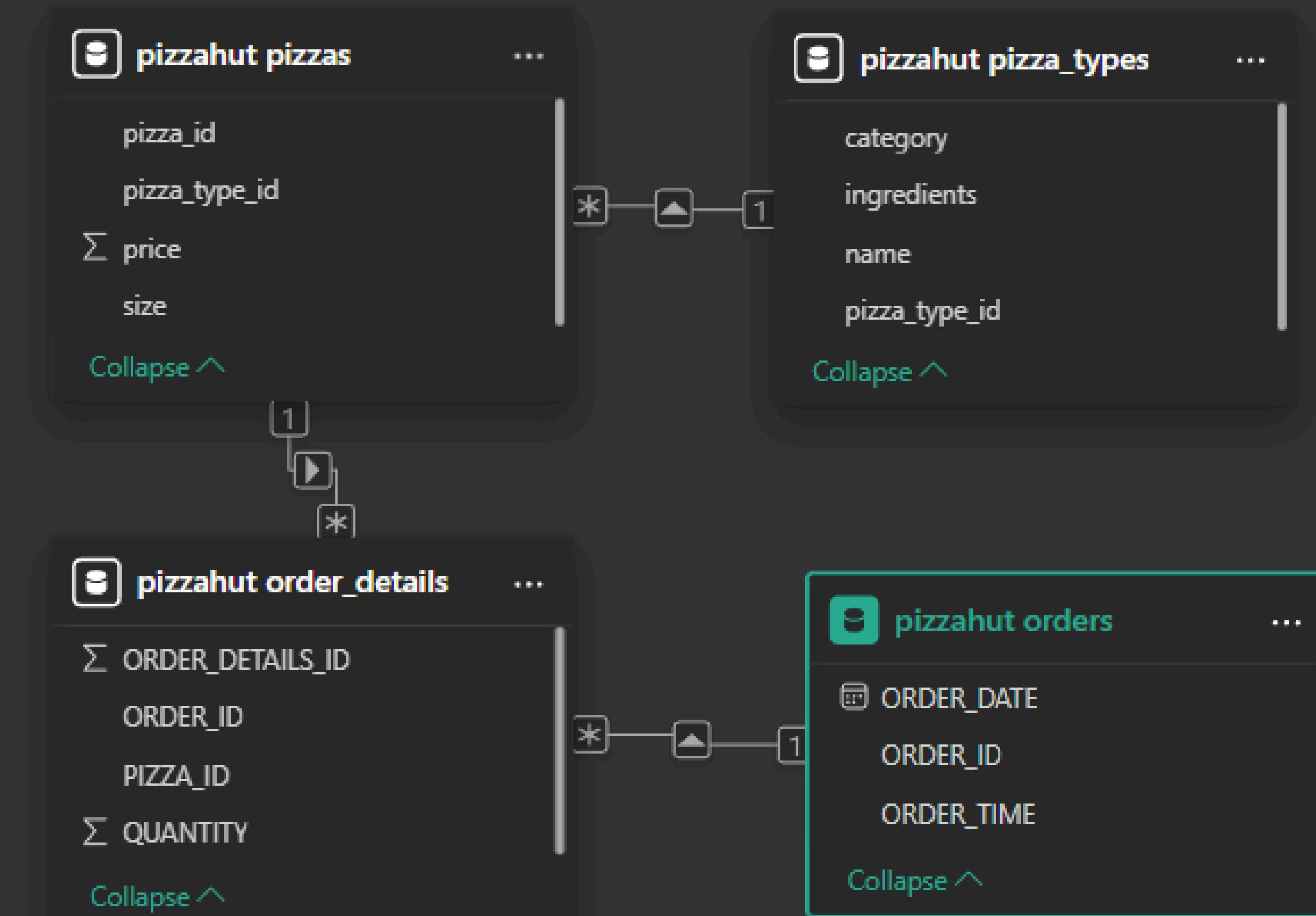
THE ANALYSIS ANSWERS IMPORTANT BUSINESS QUESTIONS SUCH AS:

- TOTAL ORDERS PLACED
- TOTAL REVENUE GENERATED
- MOST POPULAR PIZZA TYPES AND SIZES
- SALES DISTRIBUTION BY TIME AND DATE
- CATEGORY-WISE AND REVENUE-BASED PERFORMANCE

THIS PROJECT DEMONSTRATES PRACTICAL SQL SKILLS INCLUDING:

- DATA RETRIEVAL
- JOINS
- AGGREGATE FUNCTIONS
- GROUPING AND FILTERING BUSINESS-ORIENTED ANALYSIS

DATABASE SCHEMA & TABLE RELATIONSHIP





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.

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Result Grid	
	TOTAL_SALES
▶	817860.05

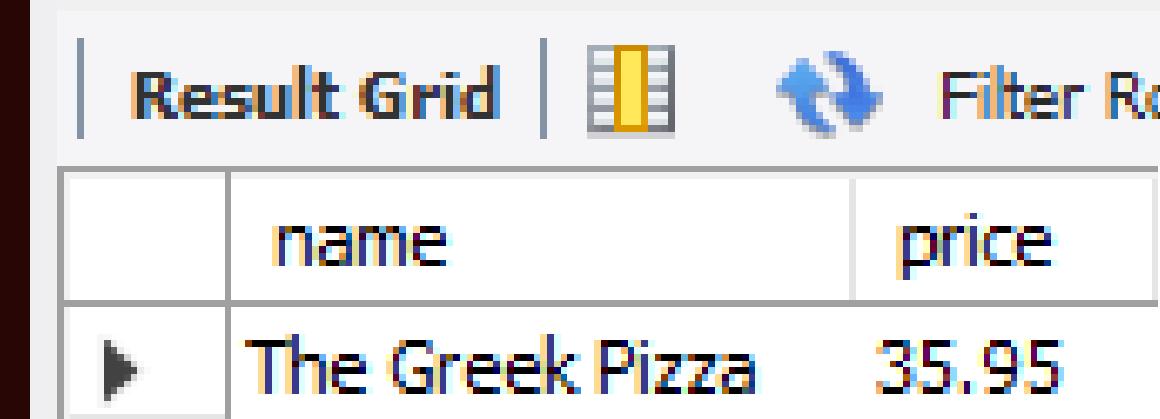
```
• SELECT  
    ROUND(SUM(order_details.QUANTITY * PIZZAS.PRICE),  
          2) AS TOTAL_SALES  
FROM  
    order_details  
JOIN  
    PIZZAS ON PIZZAS.PIZZA_ID = ORDER_DETAILS.PIZZA_ID;
```



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;
```



The image shows a database interface with a "Result Grid" window. The grid has two columns: "name" and "price". There is one row of data: "The Greek Pizza" with a price of "35.95".

	name	price
▶	The Greek Pizza	35.95



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  
LIMIT 1;
```

	size	order_count
▶	L	18526

LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES.

```
• SELECT  
    pizza_types.name, SUM(order_details.QUANTITY) AS pizza_count  
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 pizza_count DESC  
LIMIT 5;
```

	name	pizza_count
▶	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;
```

	category	quantity
▶	Classic	14888
	Veggie	11649
	Supreme	11987
	Chicken	11050

GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.

```
SELECT  
    ROUND(AVG(quantity), 0)  
FROM  
    (SELECT  
        orders.ORDER_DATE, SUM(order_details.quantity) AS quantity  
    FROM  
        orders  
    JOIN order_details ON orders.ORDER_ID = order_details.ORDER_ID  
    GROUP BY orders.ORDER_DATE) AS order_quantity;
```

Result Grid	
	round(avg(
▶	138

CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.

	category	revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

```
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 PIZZAS.PIZZA_ID = ORDER_DETAILS.PIZZA_ID) * 100,
    2) 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;
```

ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```
select order_date,  
sum(revenue) over(order by order_date) 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
▶	2015-01-01	2713.8500000000004
	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

ANALYSIS BY RAHUL KUMAR

THANK YOU