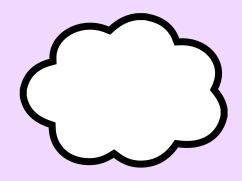


ABOUT PROJECT



0

This project involves analyzing pizza sales data using SQL to derive key business insights such as total revenue, best-selling pizzas, sales trends, and customer purchasing behavior.

The data includes information on orders, order details, pizzas, and pizza types.



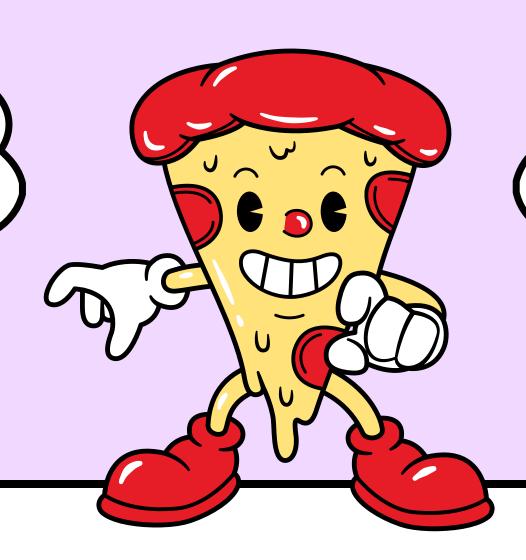
DATASET OVERWIEW

pizzas

CONTAINS PIZZA ID,
NAME, SIZE, AND PRICE

order_details

CONTAINS PIZZA ID, QUANTITY, AND ORDER ID



pizza_types

CONTAINS PIZZA NAME, CATEGORYAND INGREDIENTS



Analyze overall and monthly sales performance

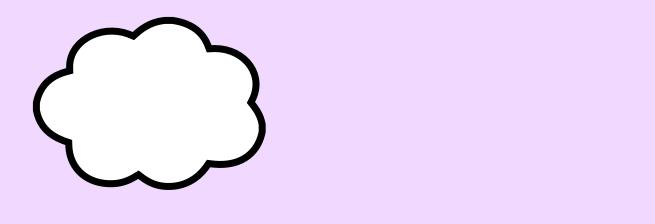
 Identify top-selling pizzas by quantity and revenue

 Examine sales trends across different pizza sizes and categories

 Provide actionable insights to optimize menu and operations

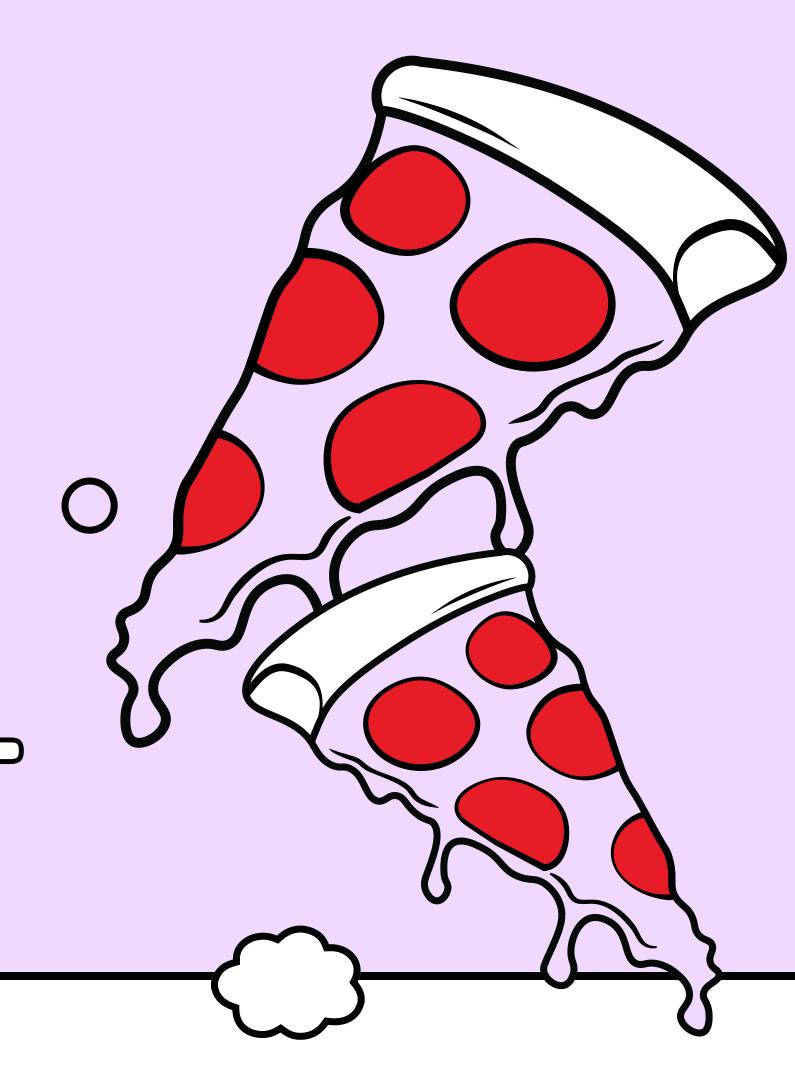
DATABASE

```
create database pizzahut;
select * from pizzahut;
```



OUERIES -

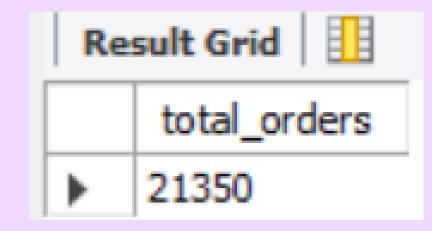
BEGINER TO ADVANCE LEVEL



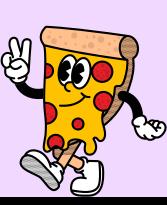
RETRIEVE THE TOTAL NUMBERS OF ORDER PLACED.

```
select count(order_id) as total_orders
from orders;
```









CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES

```
SELECT

ROUND(SUM(order_details.quantity * pizzas.price),

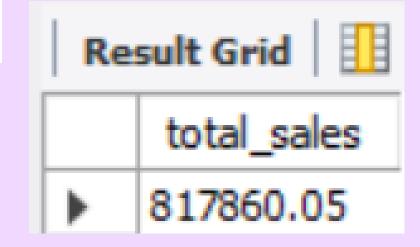
2) AS total_sales

FROM

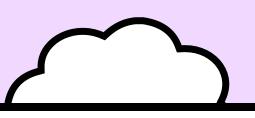
order_details

JOIN

pizzas ON pizzas.pizza_id = order_details.pizza_id
```

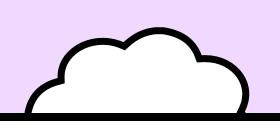






IDENTIFY THE HIGHEST PRICED PIZZA

```
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;
```



	name	price
•	The Greek Pizza	35.95



IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```
SELECT
    pizzas.size,
    COUNT(order_details.order_details_id) A5 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	Sy.
	S	14137	4
	XL	544	(
	XXI	28	





IDENTIFY THE HIGHEST PRICED PIZZA

```
SELECT
    pizza types.name, 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.name
ORDER BY quantity DESC
                                                                name
                                                               The Classic Deluxe Pizza
LIMIT 5;
```

		The Barbecue Chicken Pizza
~~		The Hawaiian Pizza
		The Pepperoni Pizza
		The Thai Chicken Pizza





quantity

2453

2432

2422

2418

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
	TO PER

DETERMINE THE DISTIBUTION OF ORDERS BY HOUR OF THE DAY

```
SELECT

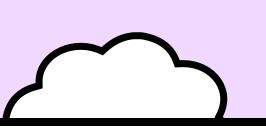
HOUR(order_time) AS hours, COUNT(order_id) AS total_orders

FROM

orders

GROUP BY hours;
```

	hours	total_orders
•	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336
	18	2399
	19	2009
	20	1642
	21	1198
	22	663
	23	28
	10	8
	9	1



JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS.

```
SELECT

category, COUNT(name) AS count

FROM

pizza_types
GROUP BY category;
```

	category	count
•	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)

FROM

(SELECT

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

FROM

orders

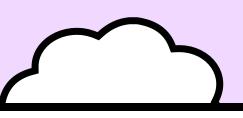
JOIN order_details ON orders.order_id = order_details.order_id

GROUP BY orders.order_date) AS order_quantity;
```



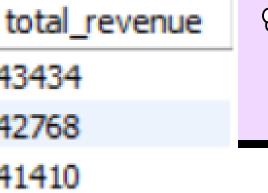
138





DETERMINE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE

```
SELECT
    pizza_types.name,
    ROUND(SUM(pizzas.price * order_details.quantity),
            0) AS total_revenue
FROM
    pizzas
        JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
        JOIN
    pizza_types ON pizza_types.pizza_type_id = pizzas.pizza_type_id
GROUP BY pizza_types.name
ORDER BY total_revenue DESC
                                                         name
LIMIT 3;
                                                        The Thai Chicken Pizza
```



43434

41410

The Barbecue Chicken Pizza 42768

The California Chicken Pizza



CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE (REVENUE/TOTAL SALES):100

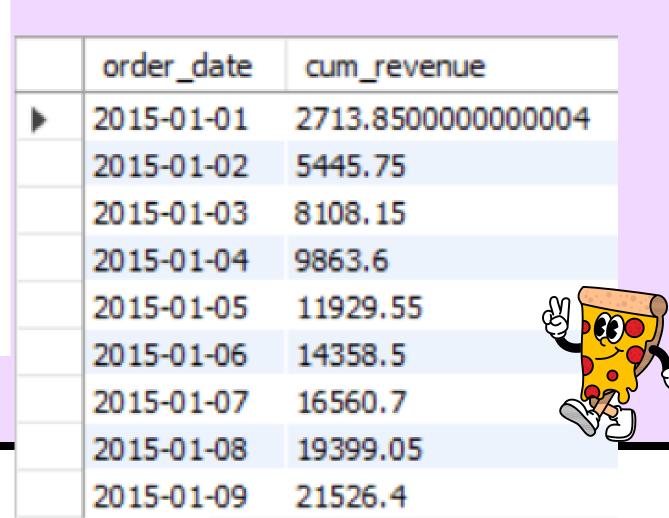
```
SELECT
    pizza types.category,
    ROUND(SUM(order_details.quantity * pizzas.price) / (SELECT
                    ROUND(SUM(order_details.quantity * pizzas.price),
                                2) AS total_sales
                FROM
                    order_details
                        JOIN
                    pizzas ON order_details.pizza_id = pizzas.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;
```

	category	revenue
•	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68



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;
```



DETERMINE THE TOP & 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 a) as b
where rn \leq 3;
```

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



CONCLUSION

Through this project, key performance metrics were extracted from the pizza sales data.

These insights can support data-driven decision-making in areas such as menu optimization, pricing strategies, and inventory management.