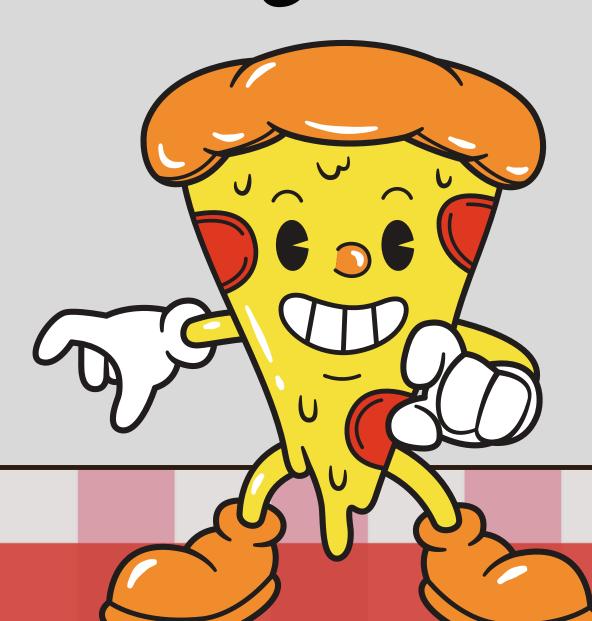
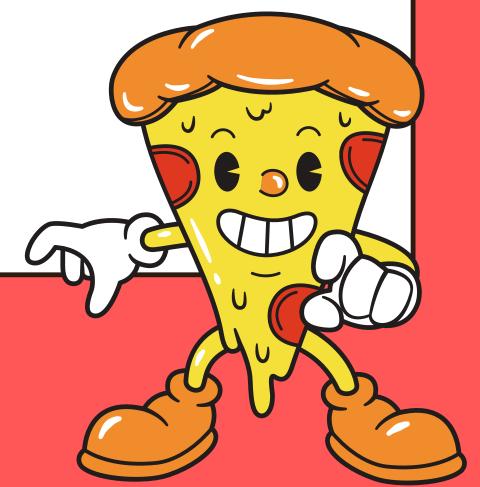
pizza sales analysis

SQL PROJECT

BY: Renu Shokeen



Hello...my name is Renu Shokeen...in this project i have utilized SQL query to solve questions related to pizza sales.



Aim of Project

The aim of the project is to analyze pizza sales data to identify trends and provide actionable insights that can help to increasesalrs and object to uncover key matrics and patternswithin the sales data by laveraging SQL queries in MYSQL

Basic:

Retrieve the total number of orders placed.

Calculate the total revenue generated from pizza sales.

Identify the highest-priced pizza.

Identify the most common pizza size ordered.

List the top 5 most ordered pizza types along with their quantities.



Intermediate:

Join the necessary tables to find the total quantity of each pizza category ordered.

Determine the distribution of orders by hour of the day.

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

Group the orders by date and calculate the average number of pizzas ordered per day.

Determine the top 3 most ordered pizza types based on revenue.

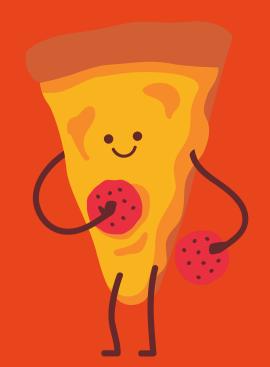


Advanced:

Calculate the percentage contribution of each pizza type to total revenue.

Analyze the cumulative revenue generated over time.

Determine the top 3 most ordered pizza types based on revenue for each pizza category.



Retrieve the total number of orders placed.

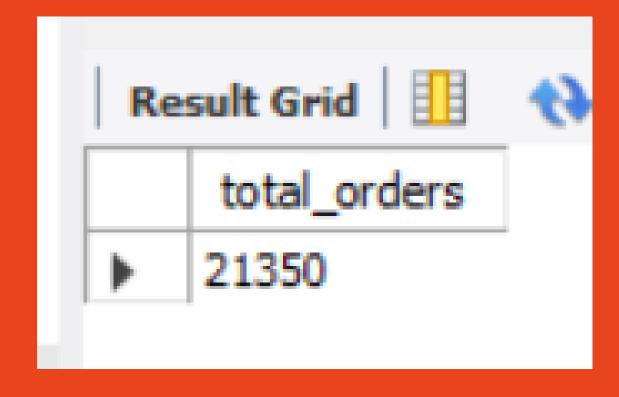


```
SELECT

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

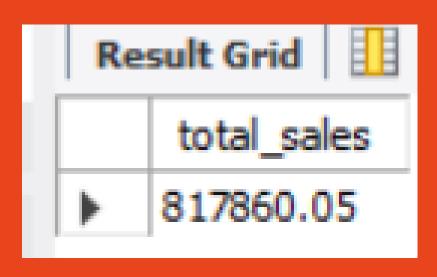
FROM

order_details

JOIN

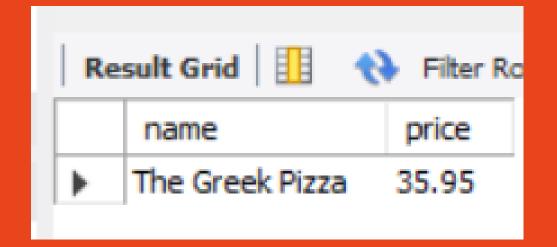
pizzas ON pizzas.pizza_id = order_details.pizza_id
```





Identify the highest-priced pizza.





Identify the most common pizza size ordered.





size	order	coun
	18526	
4	15385	
5	14137	
Œ	544	
CXL	28	
	1	18526 1 15385 14137

The top 5 most ordered pizza types along with their quantities.



```
pizza_types_name, SUM(order_details.quantity) AS quantity

FROM

pizza_types

JOIN

pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id

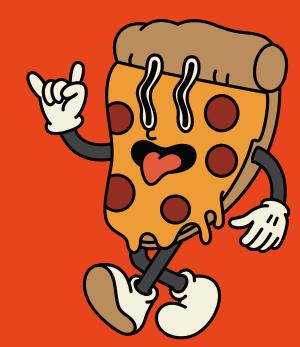
JOIN

order_details ON order_details.pizza_id = pizzas.pizza_id

GROUP BY pizza_types.name

DRDER BY quantity DESC

LIMIT 5;
```



Result Grid		
	name	quantity
•	The Classic Deluxe Pizza	2453
	The Barbecue Chicken Pizza	2432
	The Hawaiian Pizza	2422
	The Pepperoni Pizza	2418
	The Thai Chicken Pizza	2371

Determine the distribution of orders by hour of

the day.

```
SELECT

HOUR(order_time) AS hour, COUNT(order_id) AS order_count

FROM

orders

GROUP BY HOUR(order_time);
```

Re	sult Grid		43	Fi
	hour	order	coun	t
•	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.

```
category, COUNT(name)

FROM

pizza_types

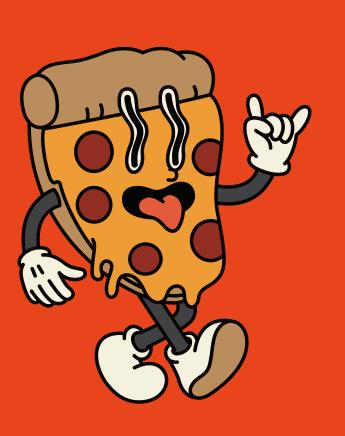
GROUP BY category;
```



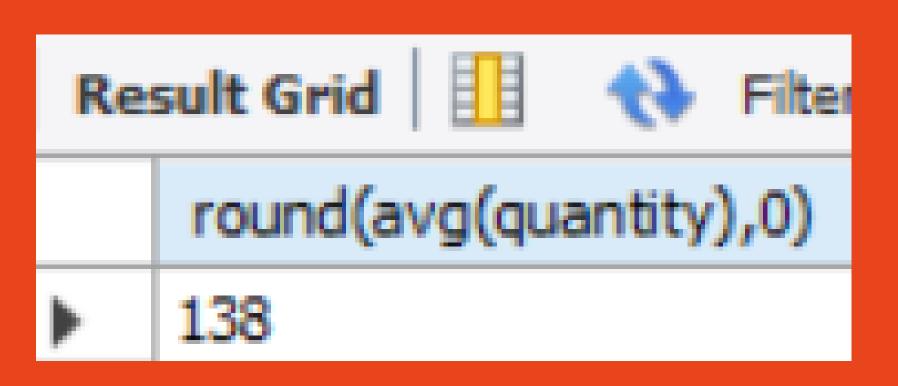


Result Grid			
	category	count(name)	
>	Chicken	6	
	Classic	8	
	Supreme	9	
	Veggie	9	

Group the orders by date and calculate the average number of pizzas ordered per day.

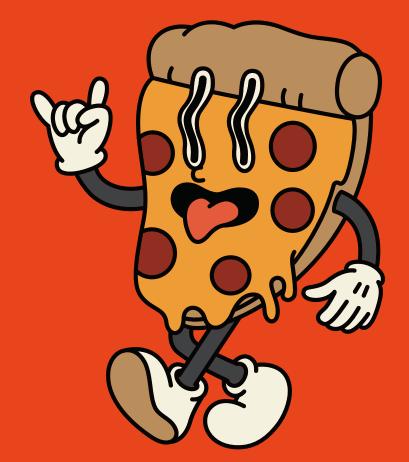


```
SELECT
    ROUND(AVG(quantity), 0)
FROM
    (SELECT
         orders.order_date, SUM(order_details.quantity) AS quantity
FROM
         orders
    JOIN order_details ON orders.order_id = order_details.order_id
         GROUP BY orders.order_date) AS order_quantity;
```



determine the top 3 most ordered pizza types based on revenue.

```
SELECT
    pizza_types.name,
    SUM(order_details.quantity * pizzas.price) AS revenue
FROM
    pizza_types
        JOIN
    pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
        JOIN
    order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY revenue DESC
LIMIT 3;
```



Result Grid		
	name	revenue
•	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza 42768	
	The California Chicken Pizza	41409.5

Calculate the percentage contribution of each pizza type to total revenue.

```
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,
            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;
```



Result Grid		
	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;
```

Re	sult Grid	Filter Rows:
	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
	2015-01-08	19399.05
	2015-01-09	21526.4
	2015-01-10	23990.350000000002
	2015-01-11	25862.65
	2015-01-12	27781.7
	2015-01-13	29831.300000000003
	2015-01-14	32358.700000000004
	2015-01-15	34343.50000000001
	2015-01-16	36937.65000000001
	2015-01-17	39001.75000000001
	2015-01-18	40978.600000000006

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 a) as b
where rn<=3;
```



THANKINGYOU

if you like the project. Feel free to repost.



