Hello

My name is Anzal Hussain Anzal, and I am currently pursuing a Bachelor's degree in Software Engineering. Alongside my academic studies, I am also focused on Machine Learning, Deep Learning, and Data Science, which I am learning through a sixmonth course offered by NUST under a program by the Government of Gilgit-Baltistan.

This project is a key part of my journey in data analysis, where I utilized MySQL to gain insights into business operations.

Through this project, I have applied my skills in SQL queries to analyze and interpret sales data, demonstrating my ability to work with real-world data and extract meaningful information for business decision-making



Pizza Hut Sales Analysis Project: SQL Queries for Business Insights

This project aims to analyze sales data from a hypothetical Pizza Hut database using SQL queries to derive valuable business insights. The project is divided into several key sections, each focusing on a different aspect of the pizza sales data. Using tables like orders, order_details, and others such as pizzas and pizza_types, the queries extract information that can help optimize operations, increase revenue, and better understand customer preferences.

Retrieve the total number of orders placed.





total_ordersl

≥ 21350



Calculate the total revenue generated from pizza sales



```
SELECT

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

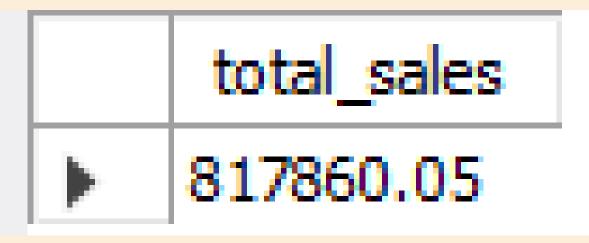
2) AS total_sales

FROM

order_details

JOIN

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



Identify the highest-priced pizza

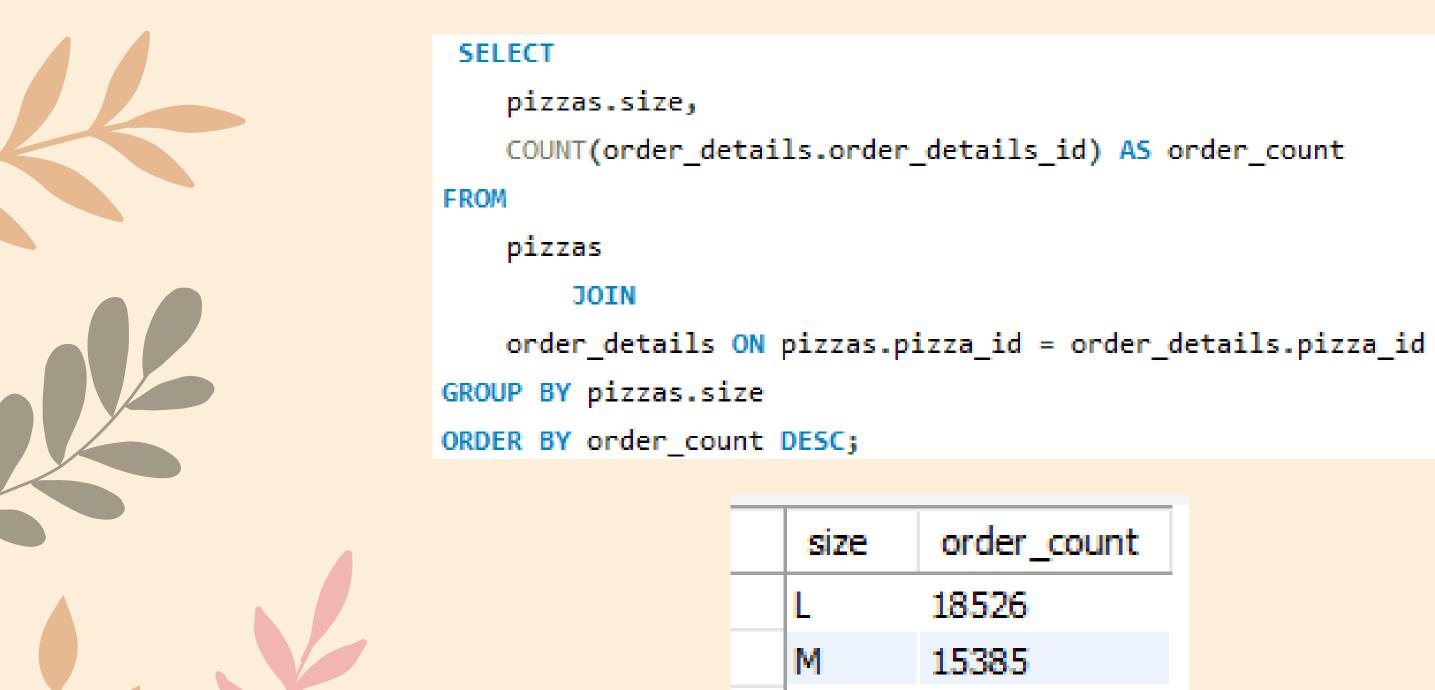


```
SELECT
    pizza_types.name, pizzas.price
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
ORDER BY pizzas.price DESC
LIMIT 1;
```

	name	price
>	The Greek Pizza	35.95



Identify the most common pizza size ordered





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



	name	qountity
)	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

ORDED BY quantity DESC:
```

	. –	
	category	quantity
٠	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050



Determine the distribution of orders

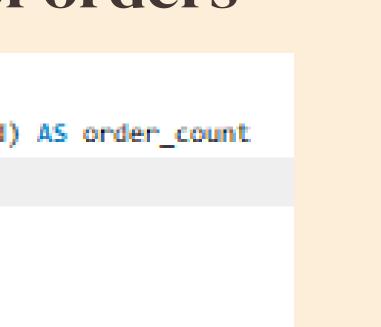
by hour of the day

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

FROM

orders

GROUP BY HOUR(order_time);
```





	. — -		
	hour	order_count	
>	11	1231	
	12	2520	
	13	2455	
	14	1472	
	15	1468	
	16	1920	
	17	2336	
	18	2399	
	19	2009	

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

```
SELECT

AVG(quantity)

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;
```

AVG(quantity)

138.4749

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;
```

name	revenue
The Thai Chicken Pizza	43434.25
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41409.5





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

```
SELECT

AVG(quantity)

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;
```

AVG(quantity)

138.4749

Thank you