



SQL Project

PIZZA SALES

INTRODUCTION

i am vivek kumar yadav and
i am student of artificial
intelligence and data
science . In this project i
have utilize SQL query to
solve a question that were
related to pizza



QUESTIONS THAT ARE COVERED IN THIS PROJECT



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.
6. Calculate the percentage contribution of each pizza type to total revenue.
7. Join the necessary tables to find the total quantity of each pizza category ordered.
8. Determine the distribution of orders by hour of the day.
9. Join relevant tables to find the category-wise distribution of pizzas.
10. Group the orders by date and calculate the average number of pizzas ordered per day.

Retrieve the total number of orders placed.

```
SELECT  
    COUNT(order_id) AS total_orders  
FROM  
    orders;
```

Result Grid	
	total_orders
▶	21350

Calculate the total revenue generated from pizza sales.

SELECT

```
    ROUND(SUM(order_details.quantity * pizzas.price),  
          3) AS TOTAL_SALES
```

FROM

```
order_details
```

JOIN

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

Result Grid

	TOTAL_SALES
▶	817860.05

Identify the highest-priced pizza

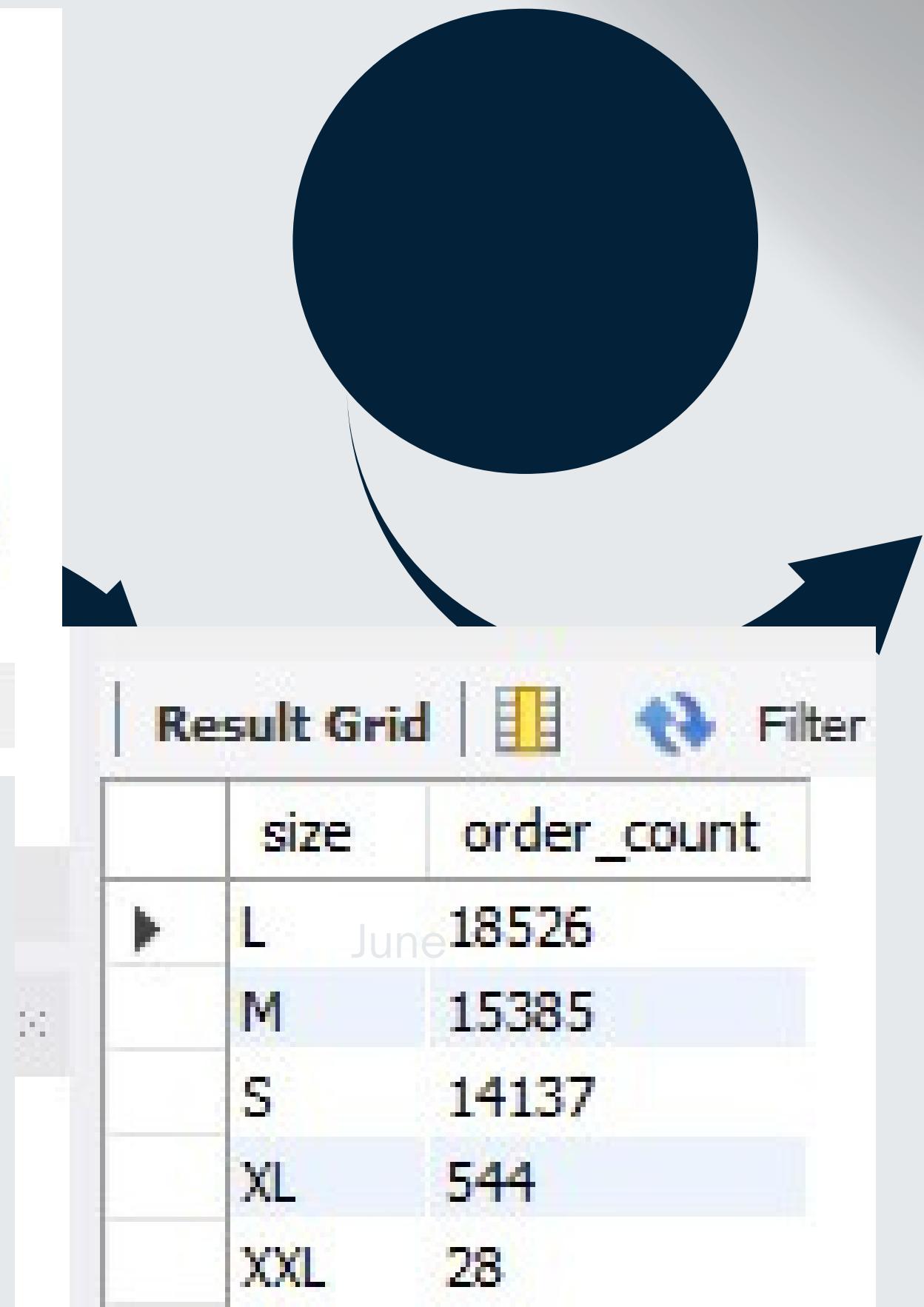
```
SELECT pizza_types.name, pizzas.price  
FROM pizza_types  
JOIN pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id  
ORDER BY pizzas.price DESC  
LIMIT 1 ;
```

Result Grid | Filter Rows:

	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 ;
```



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

```
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  
LIMIT 10;
```

Result Grid | Filter Rows:

	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

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

```
SELECT  
    pizza_types.category,  
    ROUND(SUM(order_details.quantity * pizzas.price) / (SELECT  
        ROUND(SUM(order_details.quantity * pizzas.price),  
            3) AS TOTAL_SALES  
    ) * 100  
    ) AS revenue  
FROM  
    order_details  
    JOIN  
        pizzas ON pizzas.pizza_id = order_details.pizza_id  
    JOIN  
        pizza_types 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	26.906
	Supreme	25.456
	Chicken	23.955
	Veggie	23.683

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;
```

Result Grid | Filter Rows

	category	quantity
▶	Classic	14888
...	Supreme	11987
	Veggie	11649
	Chicken	11050

Determine the distribution of orders by hour of the day.

```
SELECT  
    HOUR(order_time), COUNT(order_id) AS order_count  
FROM  
    orders  
GROUP BY HOUR(order_time);
```

	HOUR(order_time)	order_count
▶	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336
	18	2399
	19	2009
	20	1642
	21	1198

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

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

```
SELECT  
    ROUND(AVG(quantity), 1) AS avg_pizza_ordered_per_day  
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		Filter Rows:
avg_pizza_ordered_per_day		
▶	138.5	

determine the top most 3 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 | Filter Rows: _____

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



Thank You

