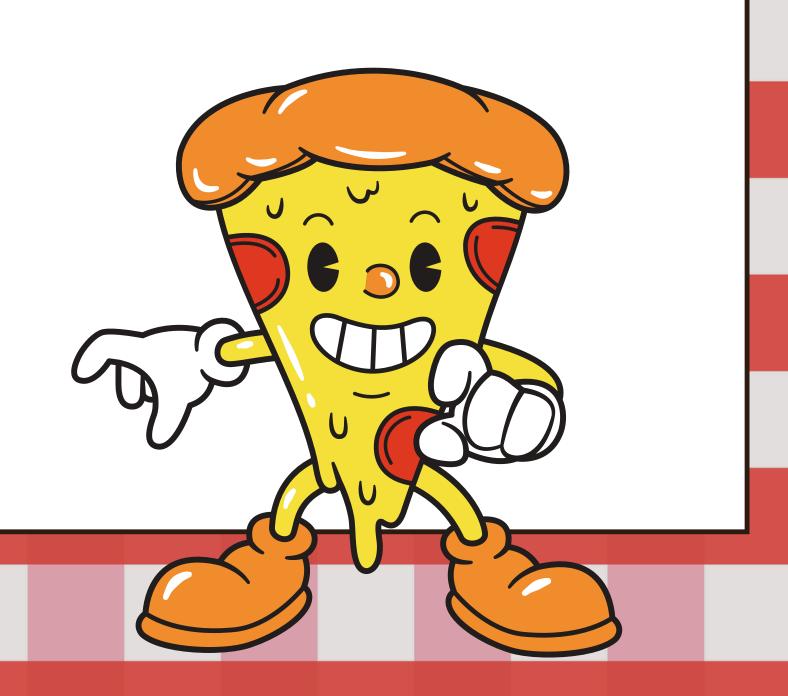
PIZZA

BOXCAR



Introduction

Hello, I am Monika Nayak.

In this project i have utilized SQL queries to solve questions that are related to pizza sales.

Questions

- Retrive the total number of orders placed.
- calculate the total revenue generated from pizza sales.
- Identify the height-priced pizza.
- Identify the most common pizza size ordered.
- Join relevent tables to find the category wise distribution of pizza..
- List the top most ordered pizza type along their quantity
- Join the necessary tables to find the total quantity of each pizza category ordered.
- Determine the distribution of orders by hour of the day
- Group the orders by date and calculate the average number of pizzas order per day
- Determine the top 3 most ordered pizza types based on revenue
- Calculate the percentage contribution of each pizza type total revenue
- Analyze the cumulative revenue generated over time.
- Determine the top 3 most ordered pizza types based on revenue for each pizza

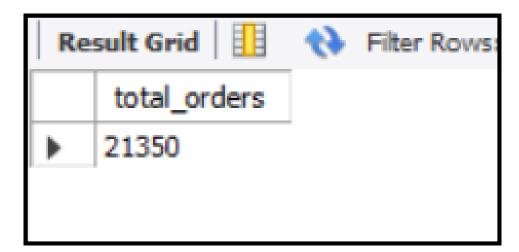
Retrive the total number of orders placed.

```
SELECT

COUNT(order_id) AS total_orders

FROM

orders;
```



calculate the total revenue generated from pizza sales.

```
SELECT

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

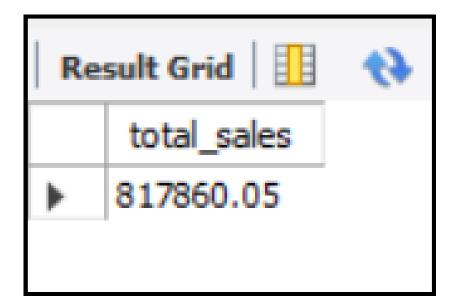
2) AS total_sales

FROM

orders_details

JOIN

pizzas ON pizzas.pizza_id = orders_details.pizza_id;
```

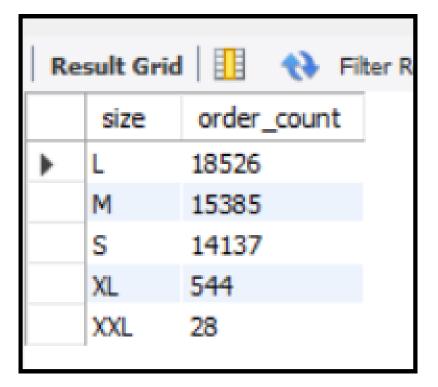


Identify the height-priced pizza.

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



Identify the most common pizza size ordered.



Join relevent tables to find the category wise distribution of pizza.

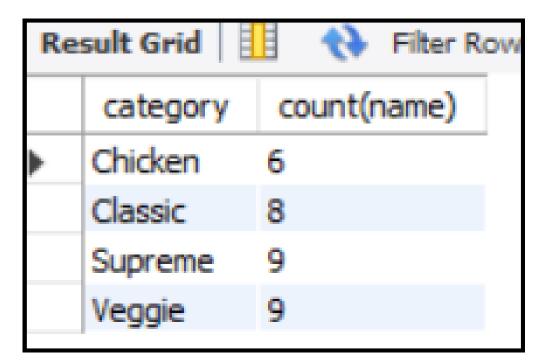
```
SELECT

category, COUNT(name)

FROM

pizza_types

GROUP BY category;
```



List the top most ordered pizza type along their quantity

```
SELECT
    pizza_types.name, SUM(orders_details.quantity) AS quantity
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    orders_details ON orders_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY quantity DESC
LIMIT 5;
```

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

Join relevent tables to find the category wise distribution of pizza.

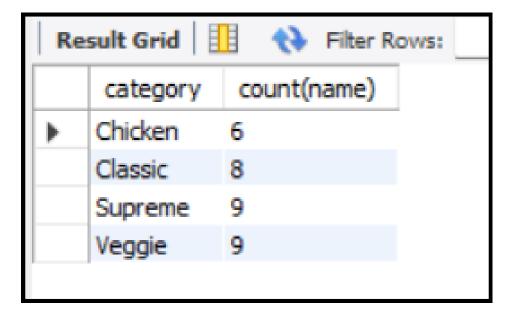
```
SELECT

category, COUNT(name)

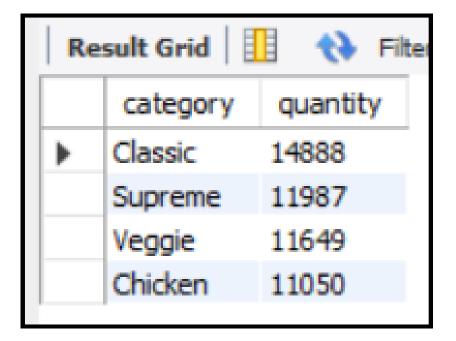
FROM

pizza_types

GROUP BY category;
```



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



Determine the distribution of orders by hour of the day

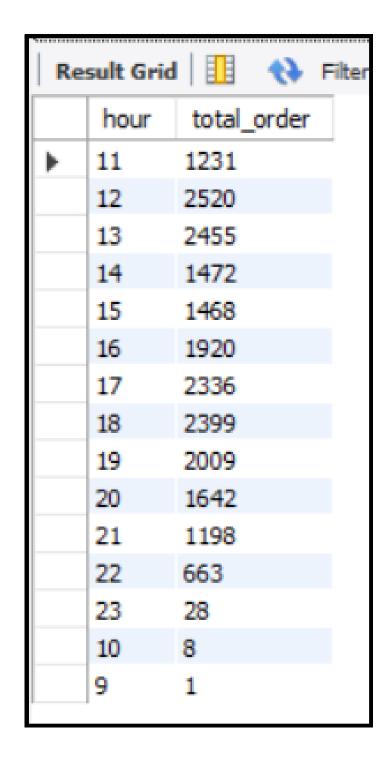
```
SELECT

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

FROM

orders

GROUP BY HOUR(order_time);
```



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

```
SELECT

ROUND(AVG(quantity), 0) as avg_pizza_ordered_perday

FROM

(SELECT

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

FROM

orders

JOIN orders_details ON orders.order_id = orders_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(orders_details.quantity * pizzas.price) AS revenue
FROM
    pizza_types
        JOIN
    pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
        JOIN
   orders_details ON orders_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY revenue DESC
LIMIT 3;
```

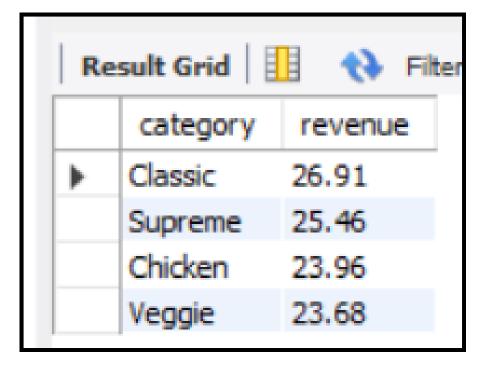
Result Grid			
	name	revenue	
•	The Thai Chicken Pizza	43434.25	
	The Barbecue Chicken Pizza	42768	
	The California Chicken Pizza	41409.5	

Calculate the percentage contribution of each pizza type total revenue

```
select pizza_types.category,
round(sum(orders_details.quantity * pizzas.price) /
(select ROUND(SUM(orders_details.quantity * pizzas.price),2) as total_sales

from orders_details join
pizzas on pizzas.pizza_id = orders_details.pizza_id) *100,2) as revenue

from pizza_types join pizzas on pizza_types.pizza_type_id = pizzas.pizza_type_id
join orders_details
on orders_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(orders_details.quantity *pizzas.price) as revenue
from orders_details join pizzas
                                                                                  Result Grid Filter Rows:
on orders_details.pizza_id = pizzas.pizza_id join orders
                                                                                     order_date cum_revenue
on orders.order_id = orders_details.order_id
                                                                                    2015-01-01 2713.8500000000004
group by orders.order_date) as sales
                                                                                    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

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

```
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((orders_details.quantity)* pizzas.price) as revenue
from pizza_types join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
join orders details
on orders_details.pizza_id = pizzas.pizza_id
group by pizza_types.category , pizza_types.name) as a) as b where rn<=3;</pre>
```

Result Grid The Filter Rows:			
	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	
	The Spicy Italian Pizza	34831.25	
	The Italian Supreme Pizza	33476.75	
	The Sicilian Pizza	30940.5	
	The Four Cheese Pizza	32265.70000000065	
	The Mexicana Pizza	26780.75	
	The Five Cheese Pizza	26066.5	