BORCELLE

RESTAURANT

Specialist in pizzas

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ABOUT US

We are a restaurant that focuses on delivering delicious pizzas, good quality, hygiene, and healthy menu combinations.

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HELLO

my name is harshit kumar .In this project I am utilize sql query to solve the question related to pizza sale.

ABOUT THE PROJECT

In this project , we perform some task using sql

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1.RETRIVED THE TABLE NO OF ORDER PLACED.

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

2. CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZ SALE

```
select
 sum(orders_details.Quantity*pizzas.price) as total_sale
from
orders_details join pizzas
on
 pizzas.pizza_id=orders_details.pizza_id ;
```

3.IDENTIFY THE HIGHTEST PRIZE 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 10;
```

4.IDENTITY THE MOST COMMON PIZZA SIZE ORDERED

```
SELECT
    size, COUNT(quantity) AS order_count
FROM
    pizzas
        JOIN
    orders_details ON pizzas.pizza_id = orders_details.pizza_id
GROUP BY size
ORDER BY order_count DESC
;
```

5.LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES.

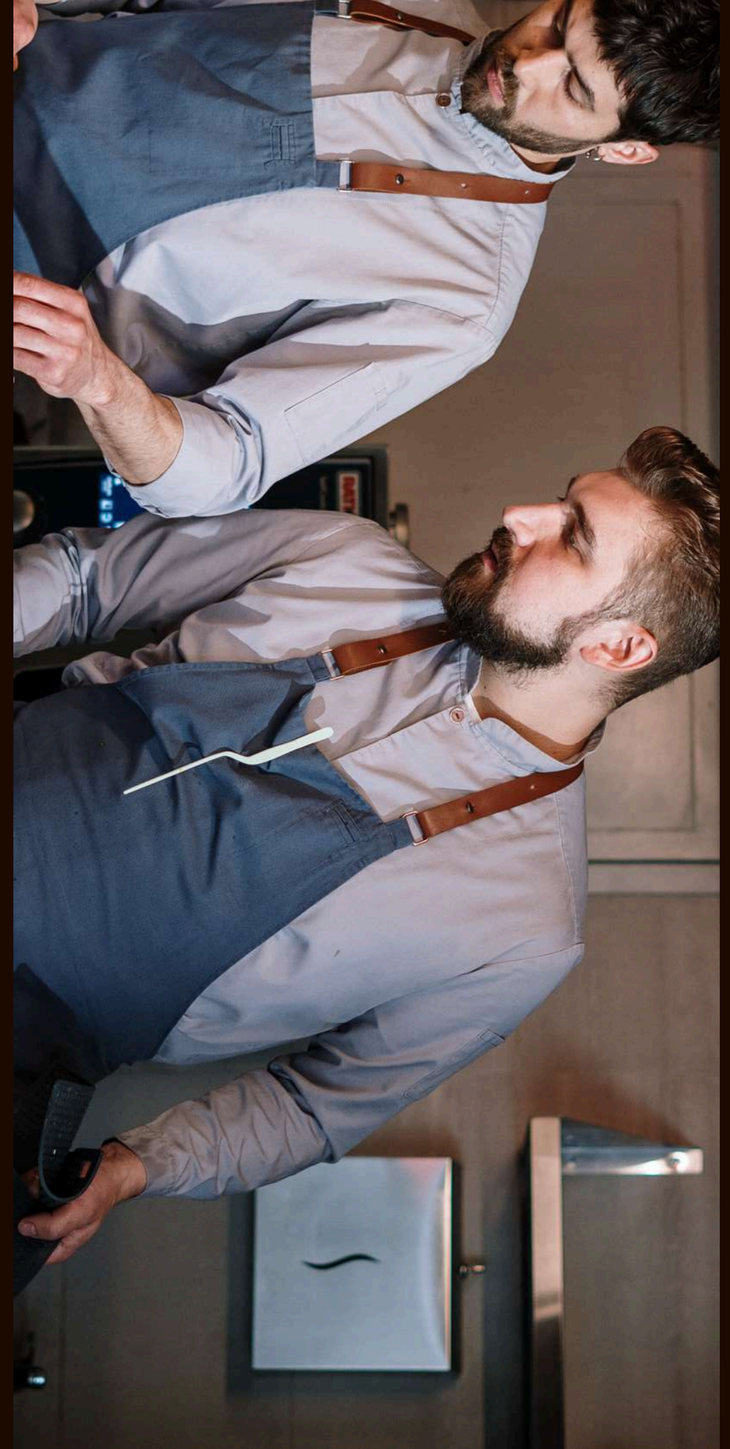
```
SELECT
    pizza_types.name, SUM(orders_details.Quantity) AS quantity
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    orders_details ON orders_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY quantity DESC
LIMIT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

6.JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED.

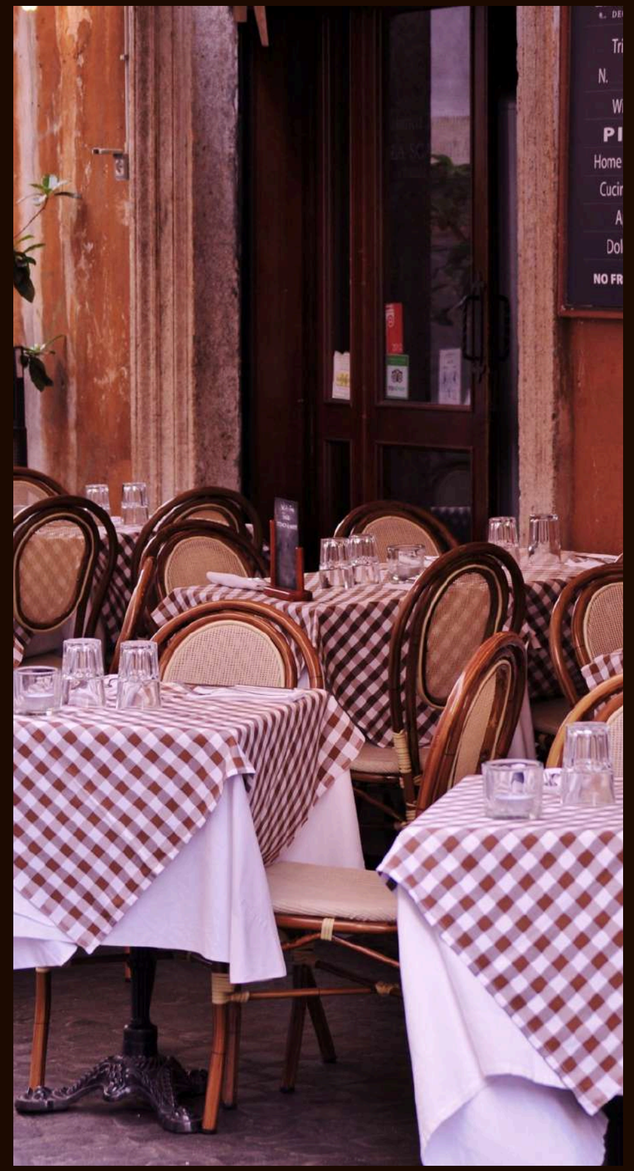
```
SELECT
    pizza_types.name, SUM(orders_details.Quantity)
AS quantity
FROM
  pizza_types
    JOIN
        pizzas ON pizza_types.pizza_type_id =
pizzas.pizza_type_id
    JOIN
      orders_details ON orders_details.pizza_id =
pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY quantity DESC;
```

7. DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

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



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



```
SELECT
    category, COUNT(name)
FROM
    pizza_types
GROUP BY category;
```

9. GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.

```
SELECT
   AVG(quantity)
FROM
   (SELECT
            DAY(order_date)  order_date,  SUM(Quantity)  AS
quantity
   FROM
      orders
            JOIN   orders_details   ON   orders.order_id   =
orders_details.order_id
   GROUP BY order_date
   ORDER BY quantity DESC) AS Q_data;
```

10. DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.

```
SELECT
pizza_types.name AS pizza_name,
SUM(pizzas.price * orders_details.quantity) AS revenu
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_name
ORDER BY revenu DESC
LIMIT 3;
```

11.CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.

```
SELECT
    pizza_types.category,
    ROUND(SUM(pizzas.price * orders_details.quantity) / (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
```

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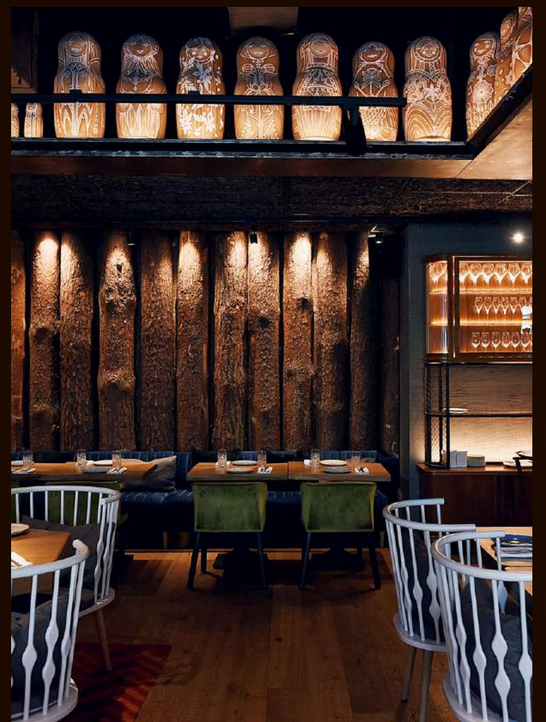
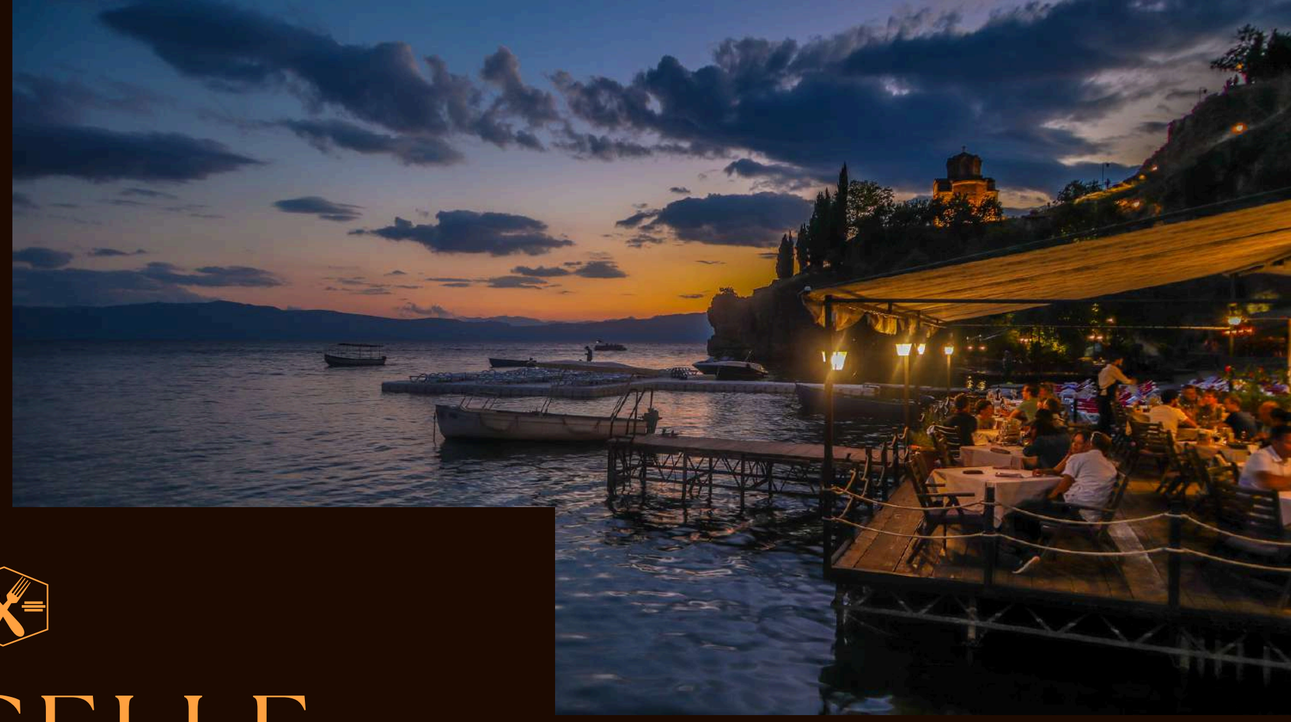
12. ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```
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
on orders_details.pizza_id=pizzas.pizza_id
join orders
on orders.order_id=orders_details.order_id
group by orders.order_date) as sales;
```





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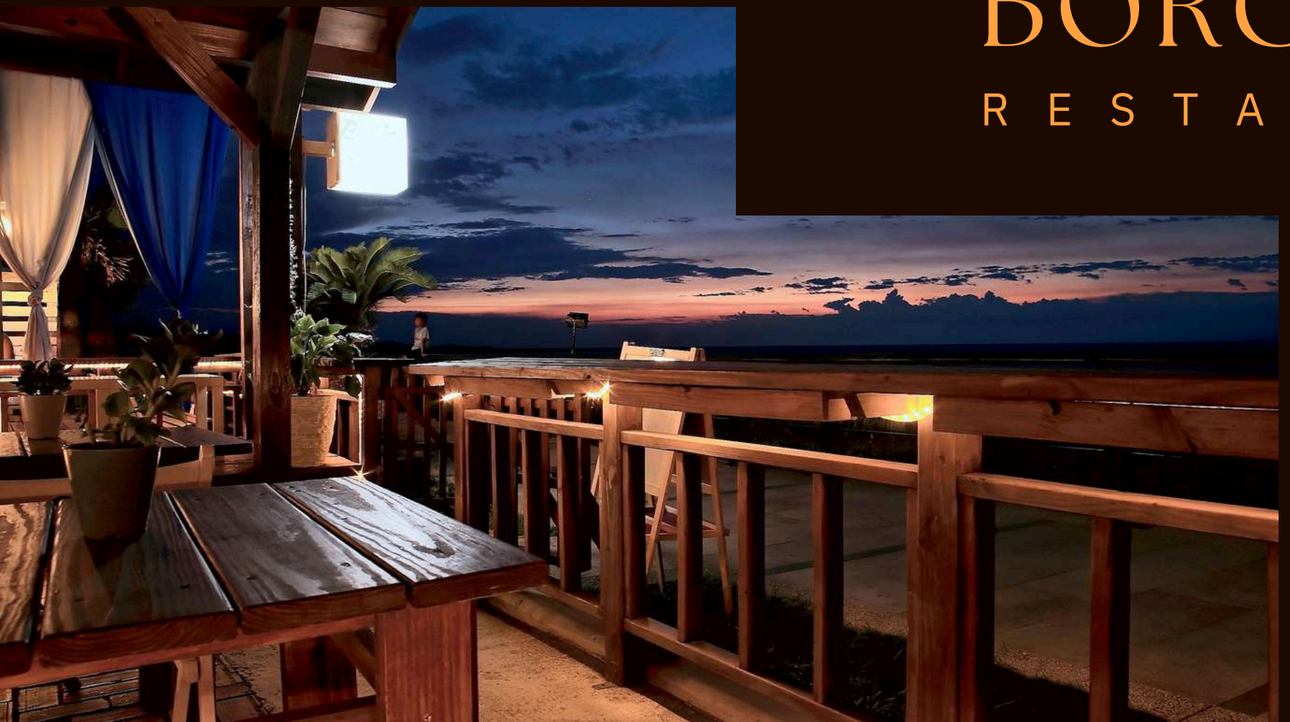

13. DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY.

```
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((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 ;
```

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THANK YOU