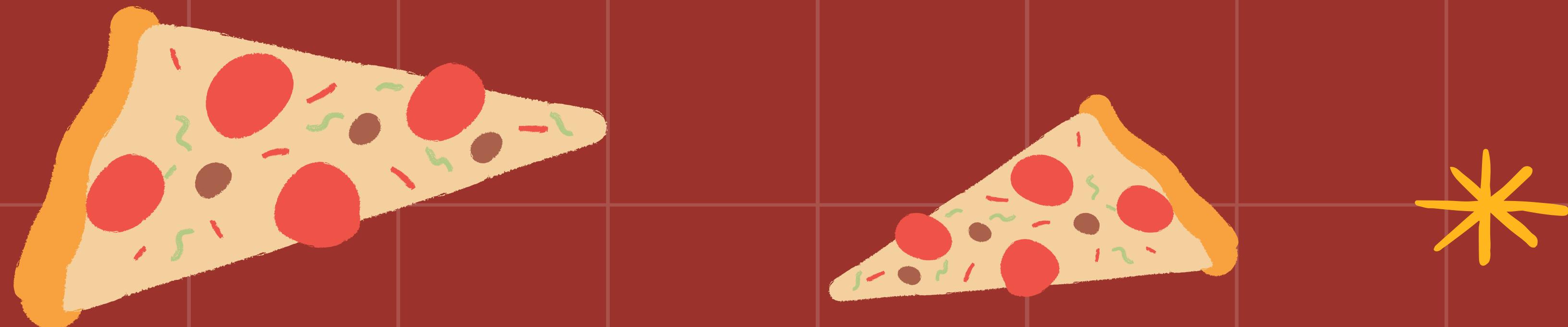


SQL PROJECT ON PIZZA SALES BY IMMAR BABAR



RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED

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



CALUCULATE 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
```



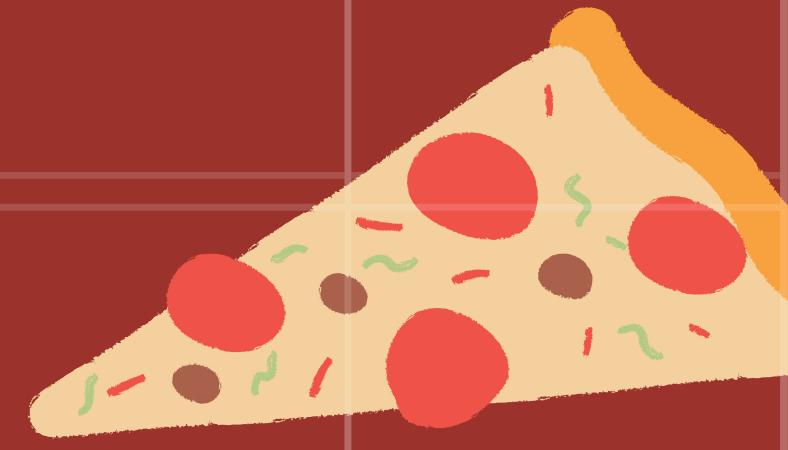
IDENTIFY THE HIGHEST PRICED PIZZA

```
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;
```



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;
```



IDENTIFY THE TOP 5 MOST ORDERED PIZZAS TYPES ALONG WITH 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 5;
```



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);
```



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

```
select round(avg(quantity),1)
  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 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;
```



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;
```



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;
```

