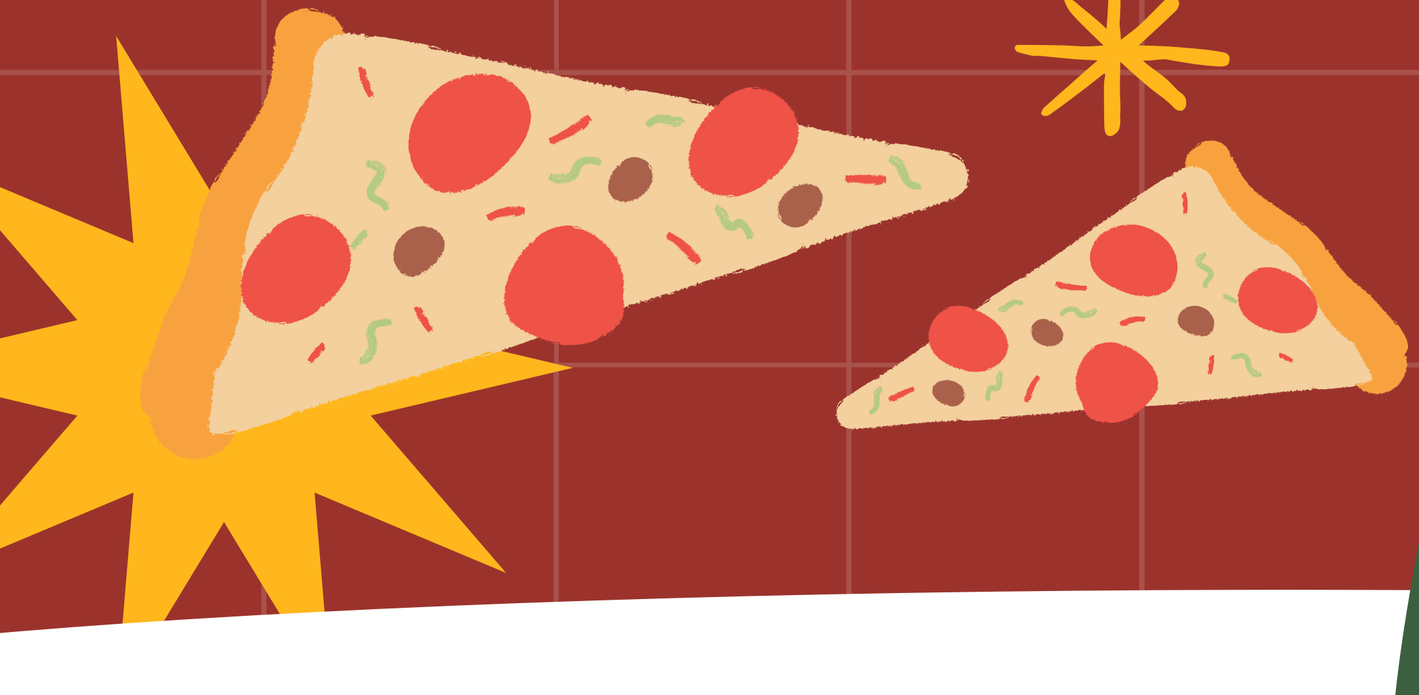
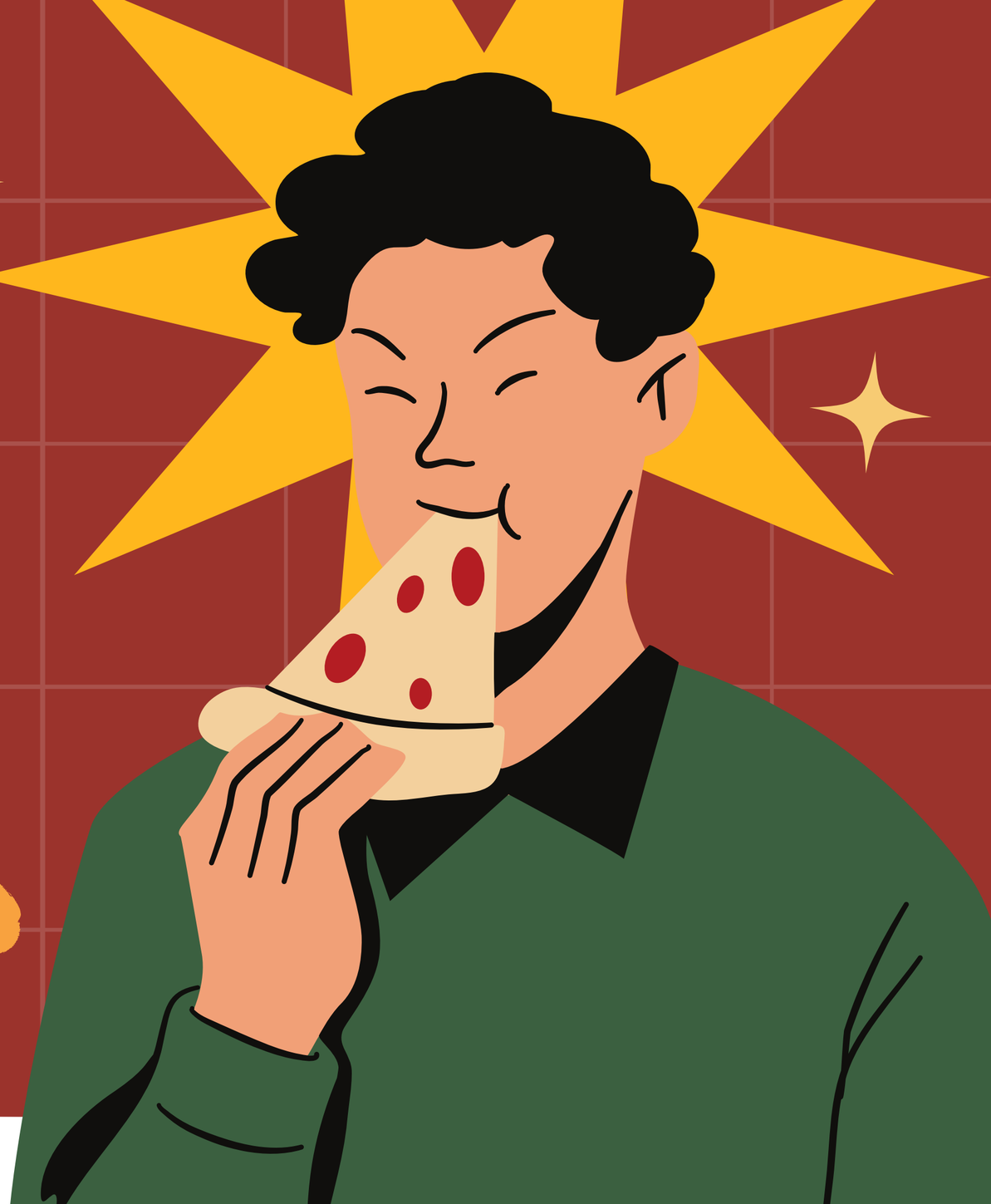
SQL PROJECT ON PIZZA SALES

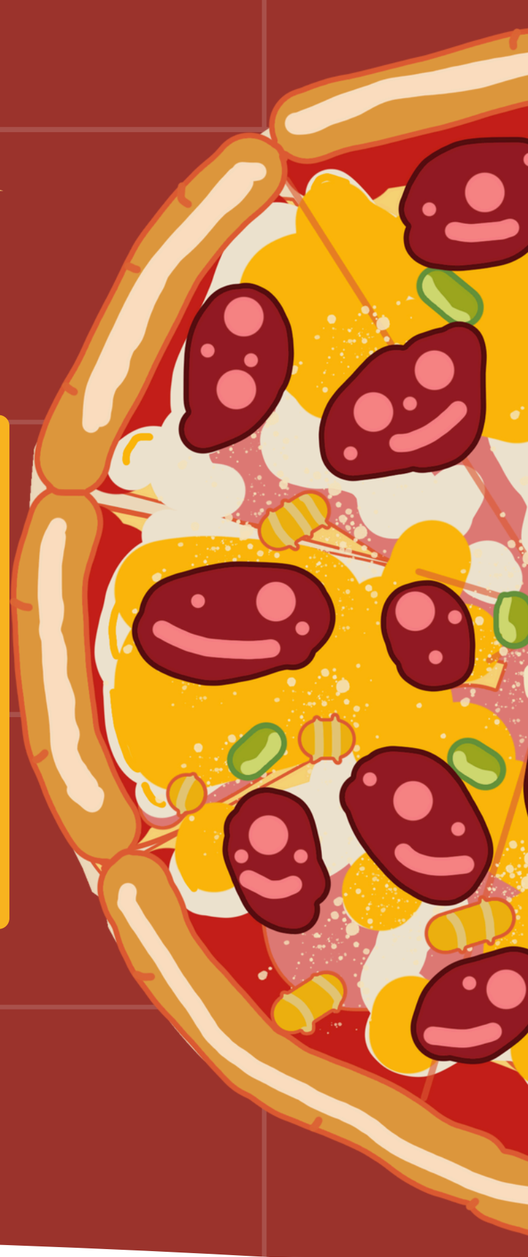




INTRODUCTION

Hello everyone, my name is Ravikash Verma. In this project, I have utilized SQL Queries to analyze and solve various questions related to pizza sales.
Through the analysis , I aim to uncover key insights and trends within the data, which can help in decision making processes and optimize sales strategies.

Let's start our adventure in the world of pizza!



RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

```sql
SELECT
    COUNT(order_id)
FROM
    orders;
```

Result Grid

	COUNT(order_id)
▶	21350

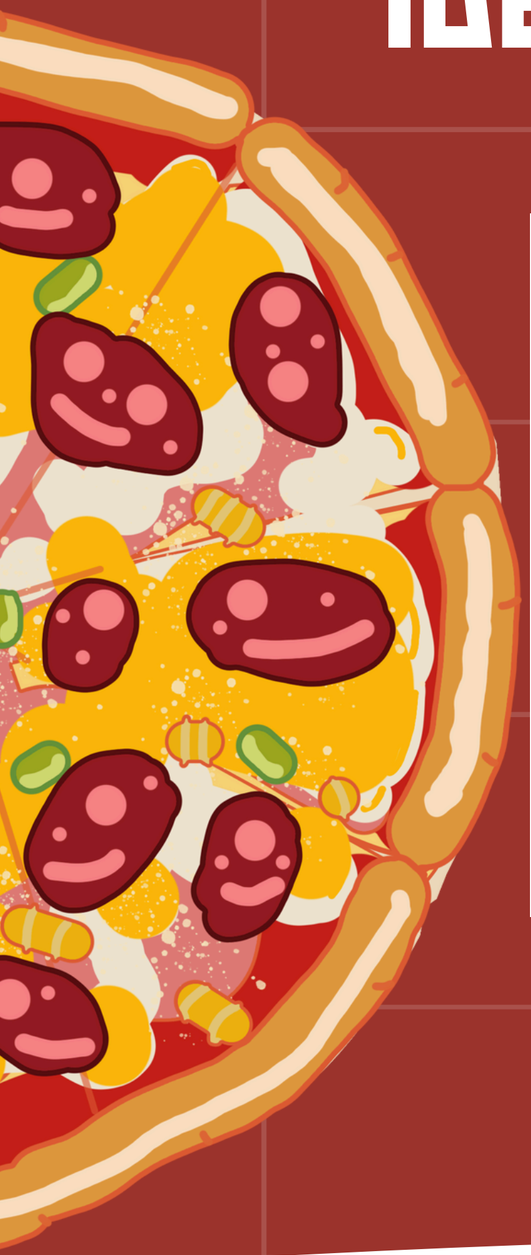
CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

```sql
SELECT
    ROUND(SUM(od.quantity * p.price)) total_revenue
FROM
    pizzas p
        JOIN
    order_details od ON p.pizza_id = od.pizza_id;
```

Result Grid

	total_revenue
▶	817860

IDENTIFY THE HIGHEST-PRICED PIZZA.



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

	name	price
▶	The Greek Pizza	35.95

IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED

```
2  •  select * from pizzas;
3  •  select * from order_details;
4  •  SELECT
5         p.size, COUNT(od.order_details_id)
6     FROM
7         pizzas p
8             JOIN
9         order_details od ON od.pizza_id = p.pizza_id
10    GROUP BY p.size
11    ORDER BY COUNT(od.order_details_id) DESC
12    LIMIT 1;
```

Result Grid | Filter Rows:

	size	COUNT(od.order_details_id)
▶	L	18526

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

```sql
SELECT
    pt.name, SUM(od.quantity) quantities
FROM
    pizza_types pt
        JOIN
    pizzas p ON pt.pizza_type_id = p.pizza_type_id
        JOIN
    order_details od ON od.pizza_id = p.pizza_id
GROUP BY pt.name
ORDER BY quantities DESC
LIMIT 5;
```

name	quantities
The Classic Deluxe Pizza	2453
The Barbecue Chicken Pizza	2432
The Hawaiian Pizza	2422
The Pepperoni Pizza	2418
The Thai Chicken Pizza	2371

FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED.

```sql
SELECT
    pt.category, SUM(od.quantity) total_quantity
FROM
    pizza_types pt
        JOIN
    pizzas p ON pt.pizza_type_id = p.pizza_type_id
        JOIN
    order_details od ON od.pizza_id = p.pizza_id
GROUP BY pt.category;
```

category	total_quantity
Classic	14888
Veggie	11649
Supreme	11987
Chicken	11050

DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

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

Result Grid | Filter Rows:

HOUR(order_time)	COUNT(order_id)
11	1231
12	2520
13	2455
14	1472
15	1468
16	1920
17	2336
18	2399
19	2009
20	1642
21	1198
22	663
23	28
10	8
9	1

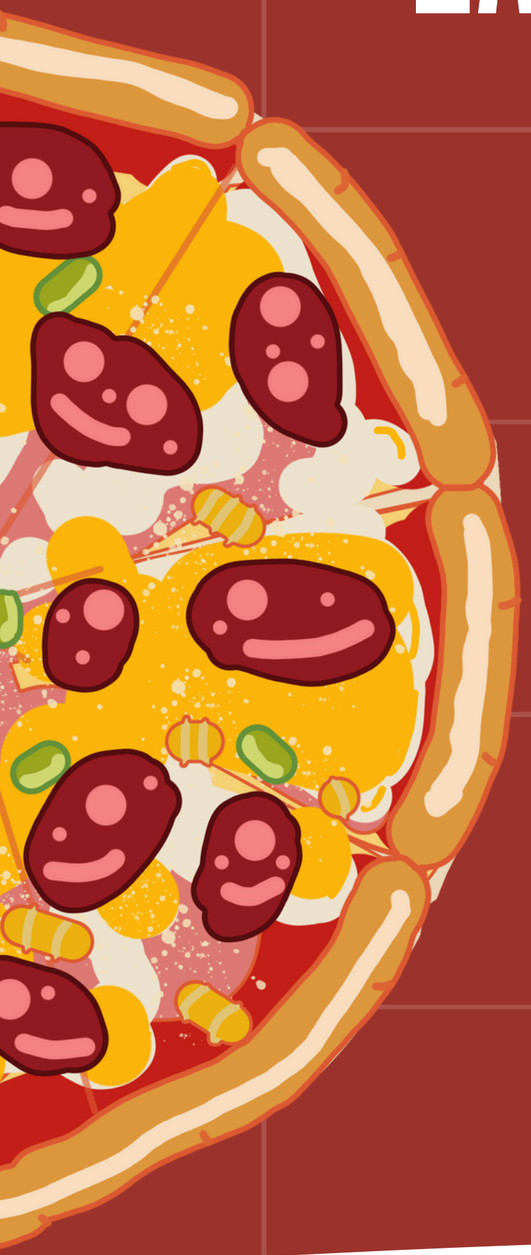
FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS.

```
3 •    SELECT
4          category, COUNT(name)
5      FROM
6          pizza_types
7      GROUP BY category;
```

esult Grid | Filter Ro

category	COUNT(name)
Chicken	6
Classic	8
Supreme	9
Veggie	9

CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.

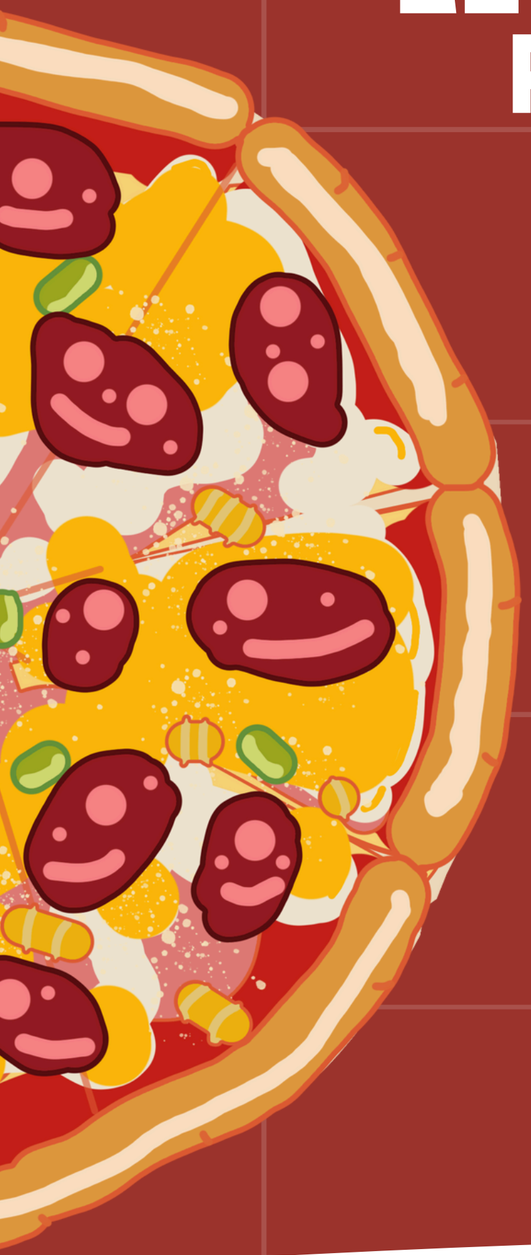


```sql
with cte as(
select o.order_date,sum(od.quantity) total_pizza_ordered
from orders o
join order_details od on o.order_id=od.order_id
group by o.order_date)
select round(avg(total_pizza_ordered))
from cte;
```

Result Grid | Filter Rows:

round(avg(total_pizza_ordered))
138

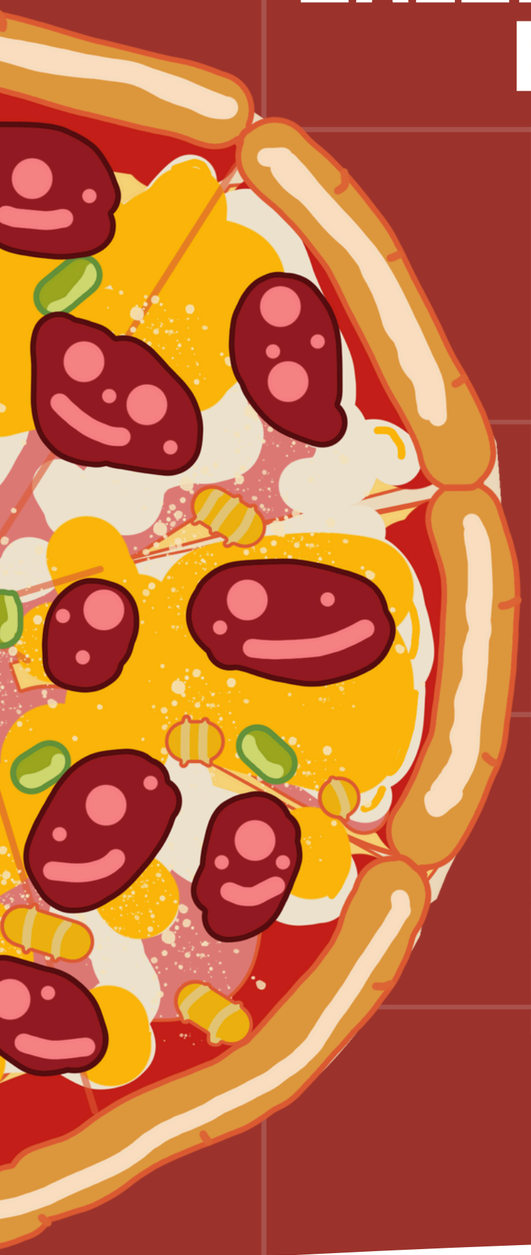
DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.



```sql
with cte as (
select pt.name,(p.price*od.quantity) sale
from pizza_types pt
join pizzas p on pt.pizza_type_id=p.pizza_type_id
join order_details od on od.pizza_id=p.pizza_id)
select name,sum(sale) revenue
from cte
group by 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

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



```sql
SELECT
    pt.category,
    ROUND(SUM(od.quantity * p.price) / (SELECT
                    ROUND(SUM(od.quantity * p.price)) AS total_sales
                FROM
                    order_details od
                        JOIN
                    pizzas p ON p.pizza_id = od.pizza_id) * 100,
            2) AS revenue
FROM
    pizza_types pt
        JOIN
    pizzas p ON pt.pizza_type_id = p.pizza_type_id
        JOIN
    order_details od ON od.pizza_id = p.pizza_id
GROUP BY pt.category
ORDER BY revenue DESC;
```

Result Grid

category	revenue
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68

ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

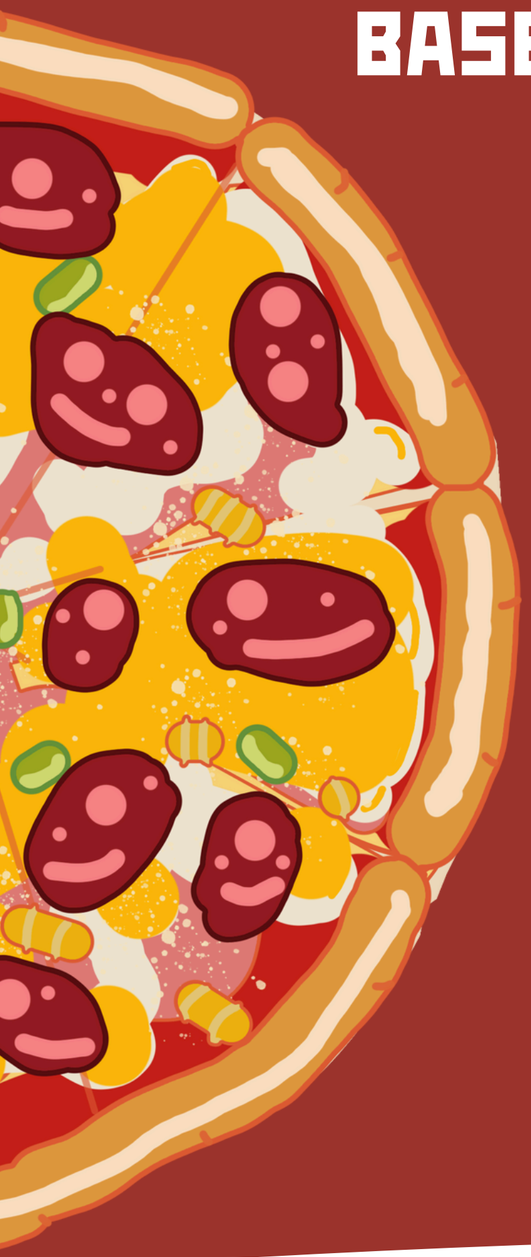
```sql
with cte as(
select o.order_date,sum(p.price*od.quantity) revenue
from orders o
join order_details od on o.order_id=od.order_id
join pizzas p on od.pizza_id=p.pizza_id
group by o.order_date)

select order_date,revenue,sum(revenue) over(order by order_date) as cum_revenue
from cte
```

order_date	revenue	cum_revenue
2015-01-01	2713.8500000000004	2713.8500000000004
2015-01-02	2731.8999999999996	5445.75
2015-01-03	2662.3999999999996	8108.15
2015-01-04	1755.4500000000003	9863.6
2015-01-05	2065.95	11929.55
2015-01-06	2428.95	14358.5

Result 4

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



```sql
with cte as(
select pt.name,pt.category,sum(p.price*od.quantity) revenue,
dense_rank() over(partition by pt.category order by sum(p.price*quantity) desc) rankk
from pizza_types pt
join pizzas p on pt.pizza_type_id=p.pizza_type_id
join order_details od on od.pizza_id=p.pizza_id
group by pt.name,pt.category
order by category)
select * from cte
where rankk<=3;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Co

name	category	revenue	rankk
The Thai Chicken Pizza	Chicken	43434.25	1
The Barbecue Chicken Pizza	Chicken	42768	2
The California Chicken Pizza	Chicken	41409.5	3
The Classic Deluxe Pizza	Classic	38180.5	1
The Hawaiian Pizza	Classic	32273.25	2
The Pepperoni Pizza	Classic	30161.75	3
The Spicy Italian Pizza	Supreme	34831.25	1
The Italian Supreme Pizza	Supreme	33476.75	2
The Sicilian Pizza	Supreme	30940.5	3
The Four Cheese Pizza	Veggie	32265.70000000065	1
The Mexicana Pizza	Veggie	26780.75	2
The Five Cheese Pizza	Veggie	26066.5	3


THANK YOU