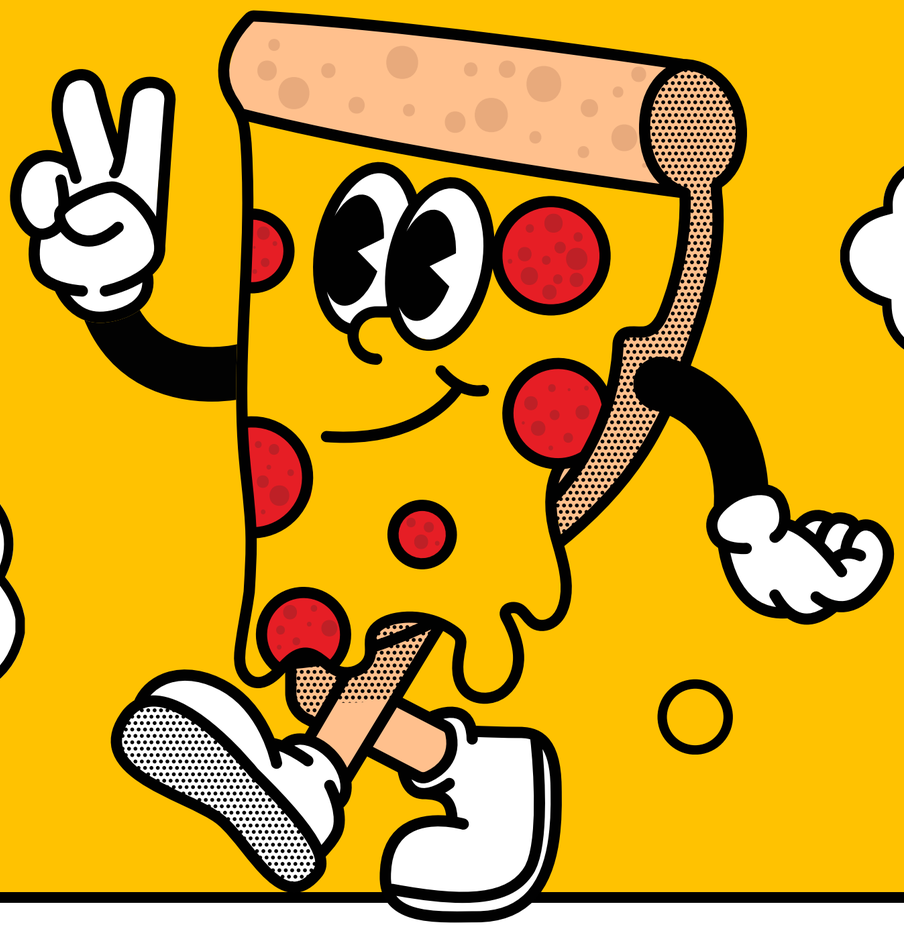
PIZZA PROJECT

SQL



RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

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

Result Grid

	Total_order
▶	21350

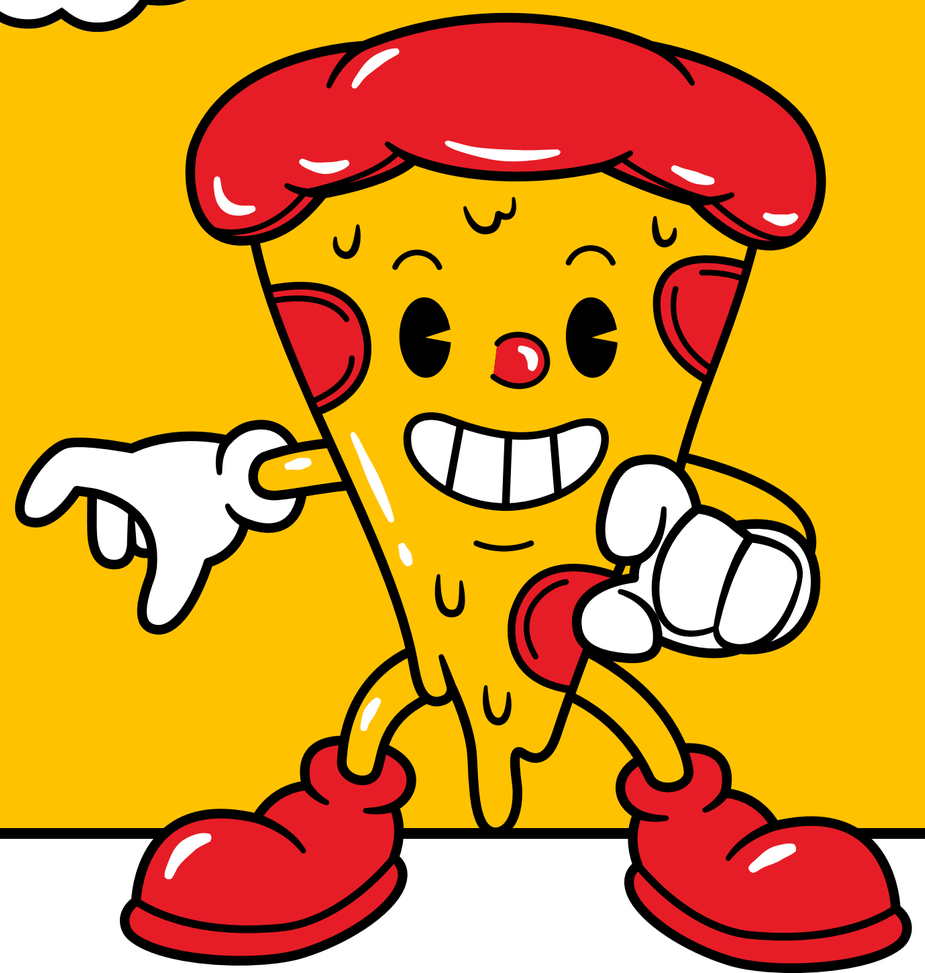
CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

```sql
SELECT
    ROUND(SUM(order_details.quantity * pizzas.price),
            2) AS Total_sales
FROM
    pizzas
        JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id;
```

Result Grid

	Total_sales
▶	817860.05

UPTO 81 LACK REVENUE GENERATED IN A YEAR



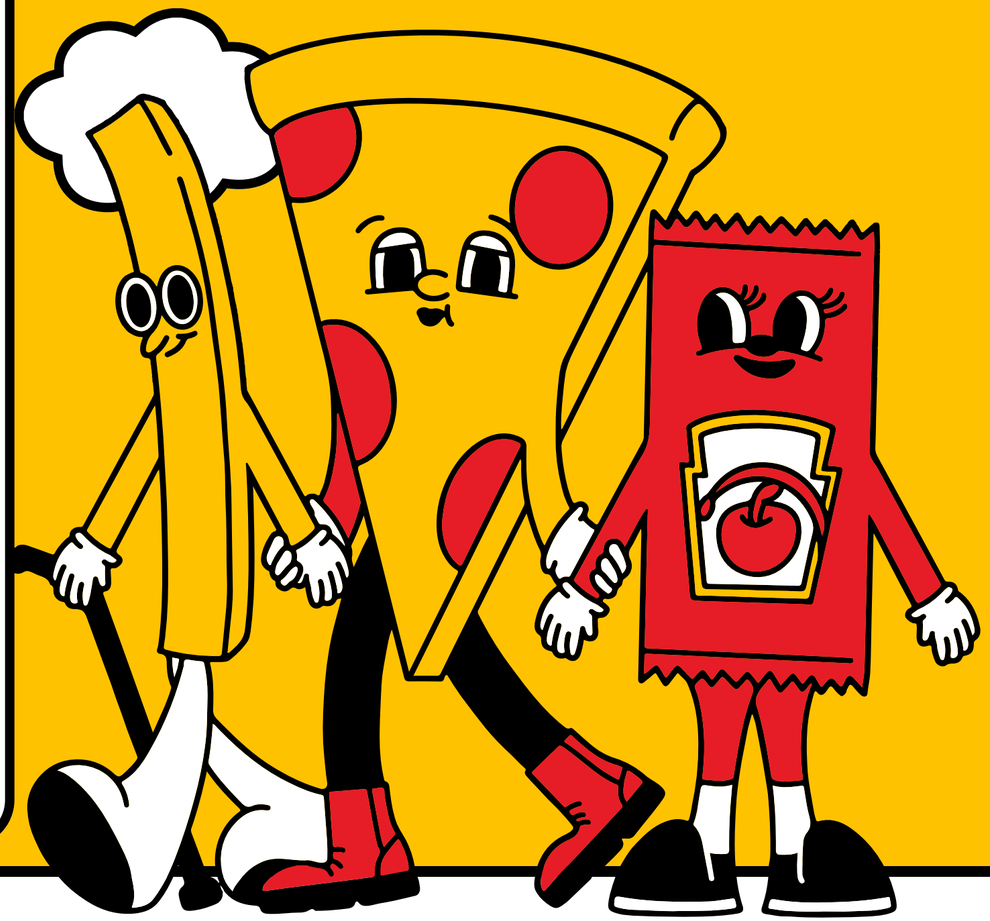
IDENTIFY THE HIGHEST-PRICED PIZZA

GREEK PIZZA – RICH, FLAVORFUL, AND PREMIUM! 🍕✨

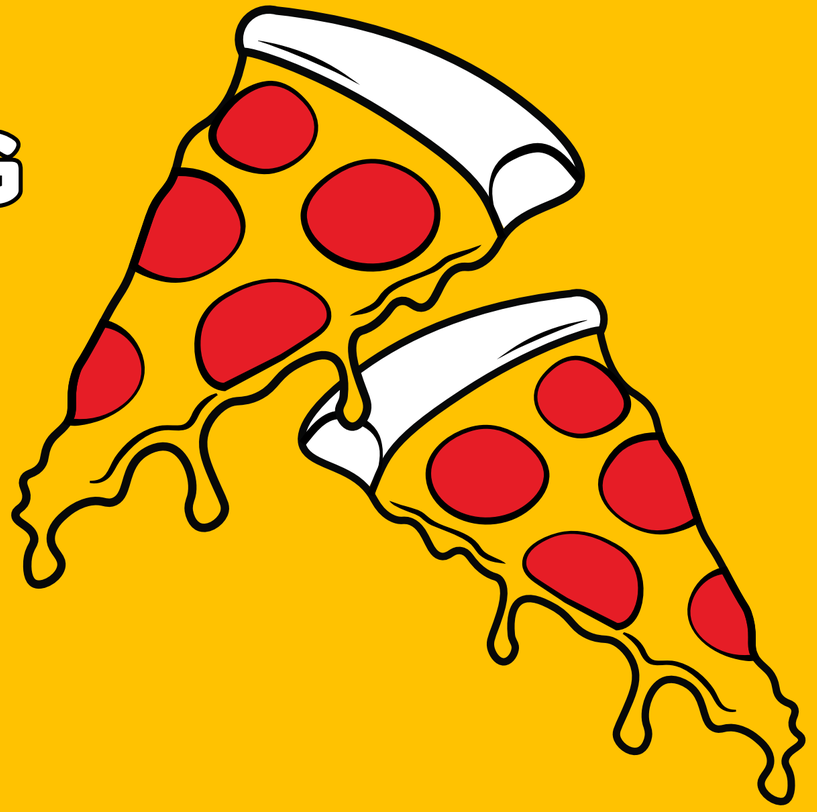
```sql
SELECT
    pizza_types.name, pizzas.price
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
ORDER BY pizzas.price desc
LIMIT 1;
```

Result Grid | Filter Rows:

name	price
The Greek Pizza	35.95



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



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

Result Grid | Filter Rows:

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

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

```sql
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

	category	quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY

PEOPLE PREFER ORDERING AT 12 PM RUSH! ⏰🍕

```sql
SELECT
    HOUR(orders.order_time) AS order_hour,
    SUM(order_details.quantity) AS quanity
FROM
    orders
        JOIN
    order_details ON orders.order_id = order_details.order_id
GROUP BY HOUR(orders.order_time)
ORDER BY SUM(order_details.quantity) DESC;
```

Result Grid | Filter Rows:

order_hour	quanity
12	6776
13	6413
18	5417
17	5211
19	4406
16	4239
14	3613
20	3534
15	3216
11	2728
21	2545
22	1386
23	68
10	18
9	4

DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE

```sql
SELECT
    pizza_types.name,
    SUM(order_details.quantity) AS quantity,
    SUM(quantity * pizzas.price) AS Sales
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizza_types.name
ORDER BY Sales DESC
LIMIT 3;
```

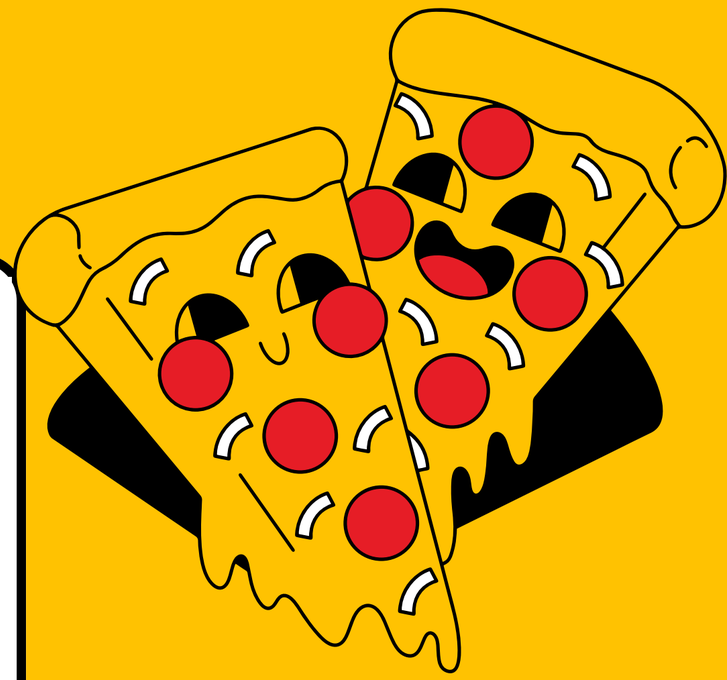
🔥 THE MOST POPULAR PIZZAS DRIVING SALES! 🔥

- THE THAI CHICKEN PIZZA
- THE BARBECUE CHICKEN PIZZA
- THE CALIFORNIA CHICKEN PIZZA

Result Grid | Filter Rows:

name	quantity	Sales
The Thai Chicken Pizza	2371	43434.25
The Barbecue Chicken Pizza	2432	42768
The California Chicken Pizza	2370	41409.5

CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE

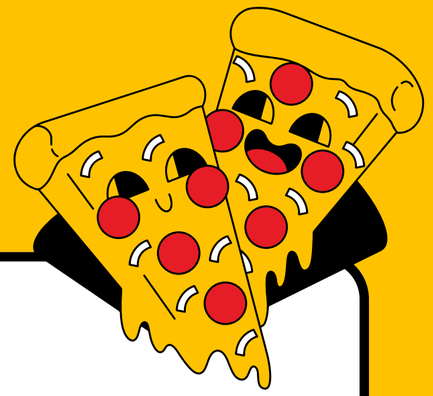


```sql
SELECT
    pizza_types.category,
    ROUND((SUM(order_details.quantity * pizzas.price) / (SELECT
                    ROUND(SUM(order_details.quantity * pizzas.price),
                                2) AS Total_sales
                FROM
                    pizzas
                        JOIN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

Result Grid | Filte

	category	Revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

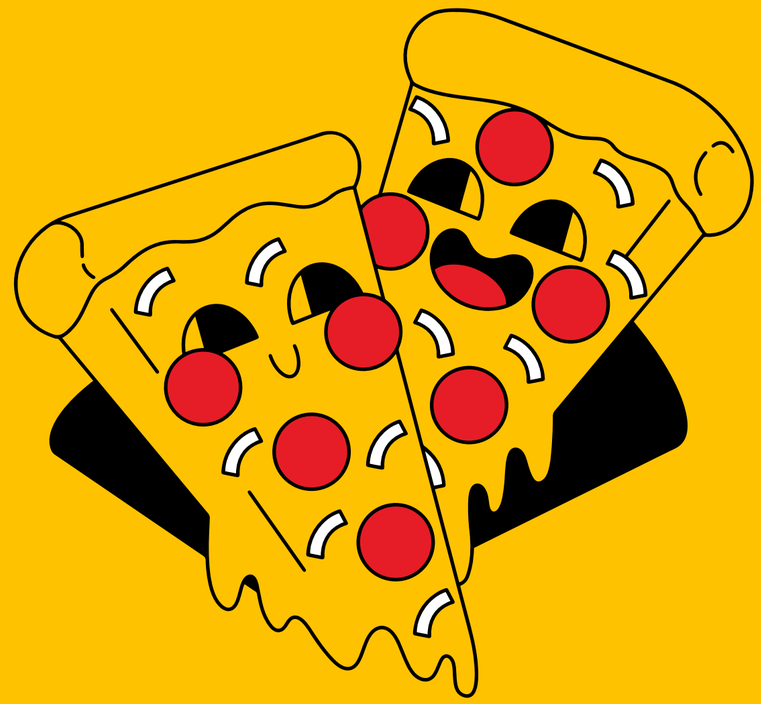
ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME



```sql
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
            orders
            JOIN order_details ON orders.order_id = order_details.order_id
            JOIN pizzas ON order_details.pizza_id = pizzas.pizza_id
        GROUP BY
            orders.order_date
    ) AS sales;
```

order_date	cum_revenue
2015-12-07	769964.25
2015-12-08	771820.5
2015-12-09	774392.05
2015-12-10	776377.65
2015-12-11	779011.65
2015-12-12	780971.8
2015-12-13	783216.9500000001
2015-12-14	785389.55
2015-12-15	787777
2015-12-16	790011.8
2015-12-17	791892.55
2015-12-18	794778.8500000001
2015-12-19	797083.05
2015-12-20	799187.9500000001
2015-12-21	801288.65
2015-12-22	803171.6
2015-12-23	805415.9
2015-12-24	807553.75
2015-12-26	809196.8
2015-12-27	810615.8
2015-12-28	812253
2015-12-29	813606.25
2015-12-30	814944.05
2015-12-31	817860.05

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



```sql
with ranks as (with revenue as (select pizza_types.name as pizza_name,
pizza_types.category as category,
sum(order_details.quantity*pizzas.price) as sells
from pizza_types
join pizzas on pizza_types.pizza_type_id = pizzas.pizza_type_id
join order_details on pizzas.pizza_id = order_details.pizza_id
group by 1,2
order by 3 desc
)
select pizza_name,category,sells,
rank() over(partition by category order by sells desc) as rn
from revenue
group by 1,2
)
select pizza_name,category,sells,rn
from ranks
where rn <= 3;
```

pizza_name	category	sells	rn
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

FINAL ANALYSIS & INSIGHTS

REVENUE & SALES PERFORMANCE

- OVER 21K PIZZAS WERE SOLD IN 2015, CONTRIBUTING TO A TOTAL REVENUE OF ₹81 LAKH.
- THE GREEK PIZZA STANDS AS THE COSTLIEST OPTION, APPEALING TO PREMIUM CUSTOMERS.

THE HIGHEST ORDER VOLUME OCCURS AT 12 PM, INDICATING A STRONG LUNCH-HOUR DEMAND.

TOP-PERFORMING PIZZAS

- THAI CHICKEN PIZZA
- BARBECUE CHICKEN PIZZA
- CALIFORNIA CHICKEN PIZZA

THANK YOU AND ENJOY A SLICE OF PIZZA!