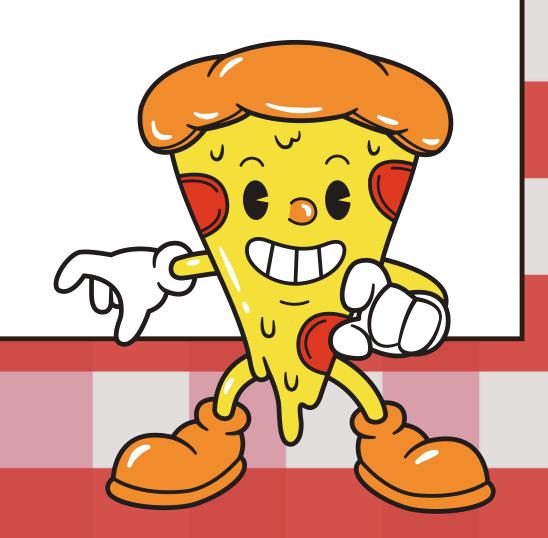
SQL PROJECT ON PIZZA SALES



Hello

SQL project, I created a database to study pizza sales. The database had tables for customers, pizzas, sales.

This project taught me how to use SQL to get useful information from data and helped me understand pizza sales better.

Schema



🔻 🗐 pizzahut

- ▼ 👘 Tables
 - ▶ order_details
 - ▶ orders
 - pizza_types
 - pizzas
 - Views
 - Stored Procedures
 - Functions

SQL queries



- 1 Basic:
- 2 Retrieve the total number of orders placed.
- Calculate the total revenue generated from pizza sales.
- 4 Identify the highest-priced pizza.
- 5 Identify the most common pizza size ordered.
- 6 List the top 5 most ordered pizza types along with their quantities.

8

- Intermediate:
- 10 Join the necessary tables to find the total quantity of each pizza category ordered.
- 11 Determine the distribution of orders by hour of the day.
- 12 Join relevant tables to find the category-wise distribution of pizzas.
- 13 Group the orders by date and calculate the average number of pizzas ordered per day.
- 14 Determine the top 3 most ordered pizza types based on revenue.

15

- 16 Advanced:
- 17 Calculate the percentage contribution of each pizza type to total revenue.
- 18 Analyze the cumulative revenue generated over time.
- 19 Determine the top 3 most ordered pizza types based on revenue for each pizza category.

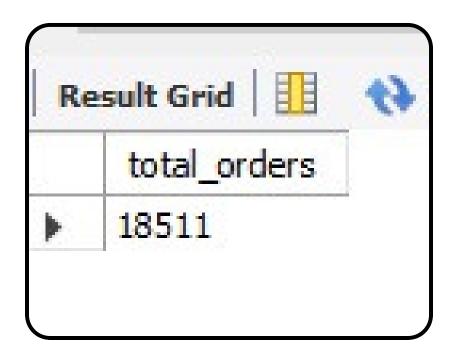
Rerive the total number of orders placed

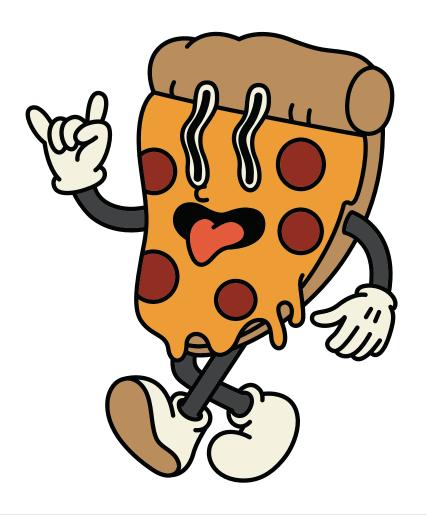
```
SELECT

COUNT(ORDER_ID) AS total_orders

FROM

orders;
```





CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES

```
SELECT

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

0) AS total_sale

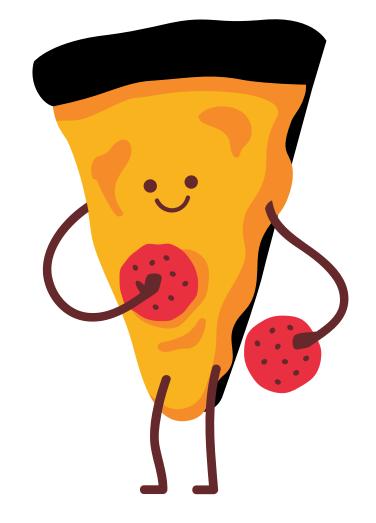
FROM

order_details

JOIN

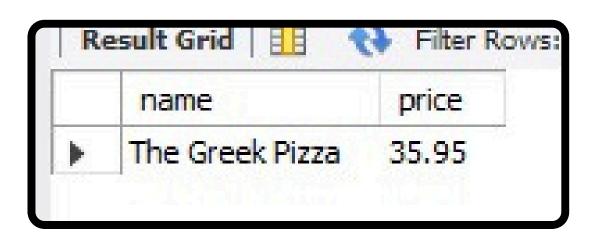
pizzas ON order_details.pizza_id = pizzas.pizza_id;
```





IDENTIFY THE HIGHEST-PRICEED

PIZZA





Identify the most common pizza ordered

```
pizzas.size, COUNT(order_details_id) AS order_count

FROM

pizzas

JOIN

order_details ON pizzas.pizza_id = order_details.pizza_id

GROUP BY pizzas.size

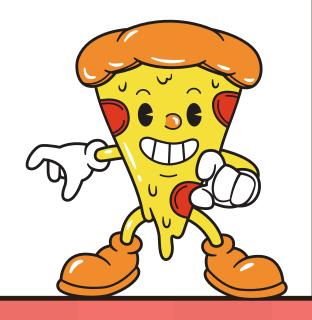
ORDER BY order_count DESC;
```



	size	order_count
>	L	2265
	M	1837
	S	1748
	XL	63
	XXL	3

List the top 5 most ordered pizza types along with their quantities

	name	total_quantity
•	The Pepperoni Pizza	334
	The Barbecue Chicken Pizza	307
	The California Chicken Pizza	288
	The Hawaiian Pizza	272
	The Classic Deluxe Pizza	269



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

```
SELECT

pizza_types.name,

SUM(order_details.quantity) AS total_quantity

FROM

pizza_types

JOIN

pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id

JOIN

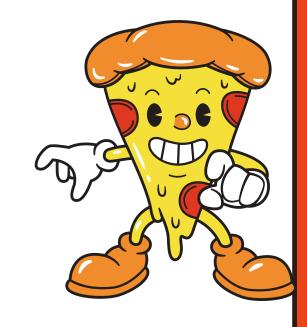
order_details ON pizzas.pizza_id = order_details.pizza_id

GROUP BY pizza_types.name

ORDER BY total_quantity DESC

LIMIT 5;
```

	category	quantity
)	Classic	1789
	Supreme	1495
	Veggie	1448
	Chicken	1292



Determine the distribution of orders by hour of the day

```
SELECT

HOUR(order_time), COUNT(order_id)

FROM

orders

GROUP BY HOUR(order_time)

;
```



	HOUR (order_time)	COUNT(order_id)
Þ	11	1062
	12	2169
[4	13	2122
	14	1297
	15	1283
	16	1664
	17	2041
	18	2083
	19	1716
	20	1411

Join relevant tables to find the category -wise distribution of pizzas.

```
    select category, count(name) from pizza_types
group by category;
```



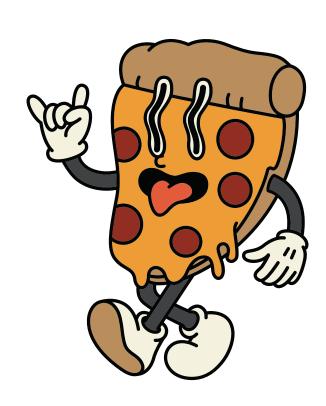
	category	count(name)
>	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

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

```
SELECT
    ROUND(AVG(quantity), 0) as avg_pizza_ordered_per_day
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;
```

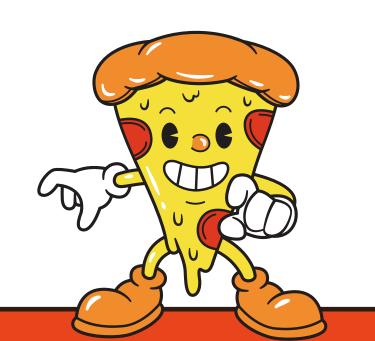


```
avg_pizza_ordered_per_day

137
```

Determine the top 3 most ordered pizza types based on revenue

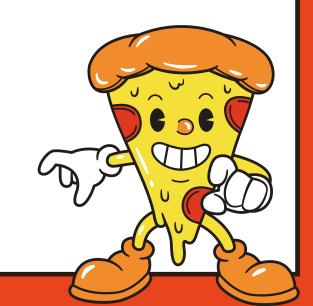
	name	revenue
•	The Barbecue Chicken Pizza	5470
	The California Chicken Pizza	4960
	The Thai Chicken Pizza	4776



Calculate the percentage contribution of each pizza type to total revenue

```
SELECT
           pizza_types.category,
           ROUND((SUM(order_details.quantity * pizzas.price) / (SELECT
                           ROUND(SUM(order_details.quantity * pizzas.price),
                                        0) AS total sale
                        FROM
                           order_details
10
                                JOIN
                           pizzas ON order_details.pizza_id = pizzas.pizza_id)) * 100,
11
                   0) AS revenue
12
13
       FROM
           pizza_types
15
               JOIN
           pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
16
               JOIN
           order_details ON order_details.pizza_id = pizzas.pizza_id
19
       GROUP BY pizza types.category;
```

category	revenue
Classic	27
Veggie	24
Supreme	26
Chicken	23



Analyze the cumulative revenue generated over time

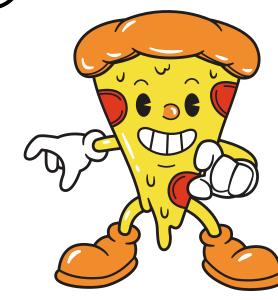
```
select order_date, sum(total_revenue) over (order by order_date) as cum_revenue
from

(select orders.order_date, sum(order_details.quantity*pizzas.price)

as total_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;
```

	order_date	cum_revenue
>	2015-01-01	2713.85000000000004
	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	23990.3500000000002
	2015-01-11	25862.65



Determine the top 3 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 ranking
       from
       (select pizza types.category,pizza types.name , round(sum(order details.quantity*pizzas.price),0) as revenue
       from pizza types join pizzas
 8
       on pizza_types.pizza_type_id = pizzas.pizza_type_id
 9
       join order details
10
       on order details.pizza id = pizzas.pizza id
11
       group by pizza types.category, pizza types.name ) as a) as b
12
       where ranking<= 3;
13
```

name	revenu
The Barbecue Chicken Pizza	5470
The California Chicken Pizza	4960
The Thai Chicken Pizza	4776
The Pepperoni Pizza	4189
The Classic Deluxe Pizza	4153
The Hawaiian Pizza	3574
The Sicilian Pizza	4223
The Italian Supreme Pizza	4222
The Spicy Italian Pizza	4135
The Four Cheese Pizza	3933
The Five Cheese Pizza	3570

