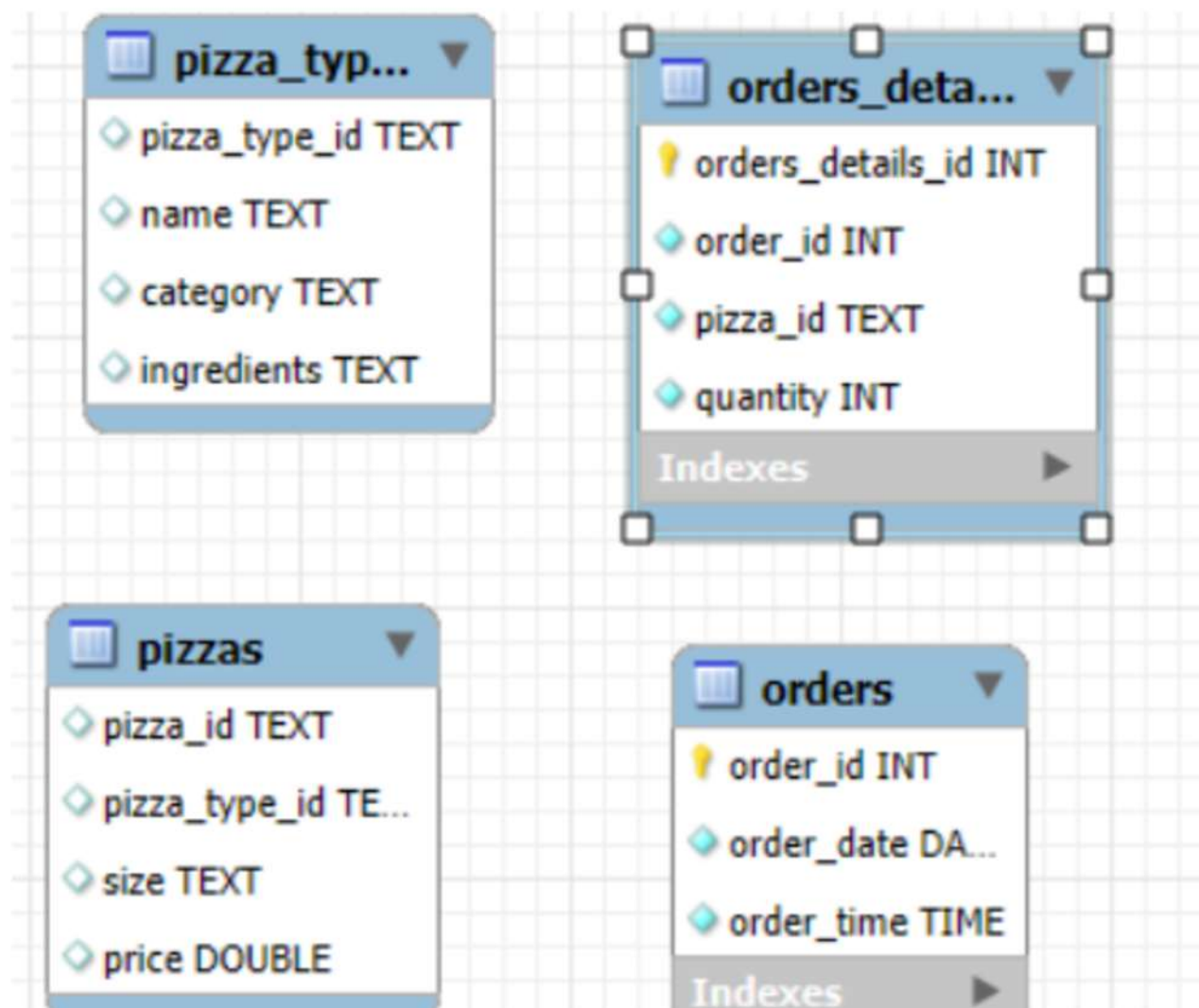


SQL PROJECT FOR PIZZA SALES



My name is Mukesh Bhatt

We have utilize SQL to answer some important question in Pizza sales



Company	Sale
Choice Pizza	3 full pizzas, 1 half pizza
Pizza Hot	2 full pizzas, 1 half pizza
Pizza Village	2 full pizzas
Super Pizza	4 full pizzas
Big Pizza	2 full pizzas, 1 half pizza



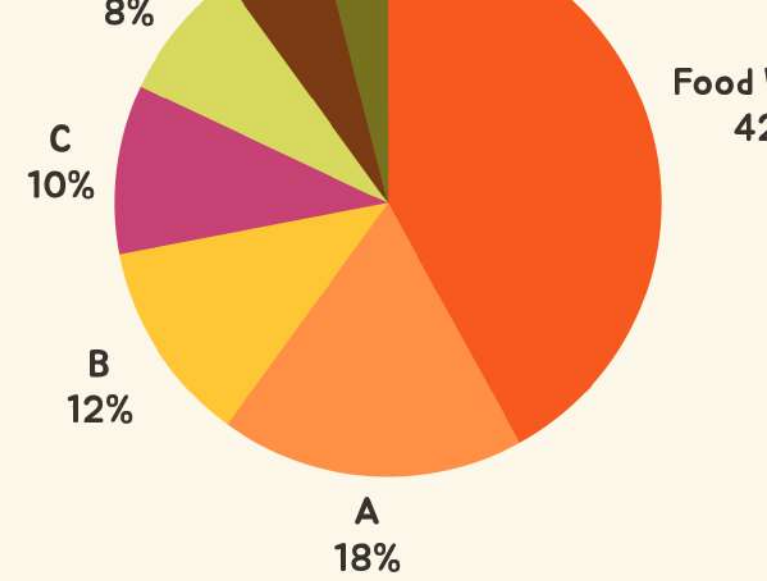
Retrieve the total number of orders placed.

SELECT

COUNT(*) **AS** Total_orders

FROM

orders;



Result Grid	
	Total_orders
▶	21350





Calculate the total revenue generated from
pizza sales.


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

Result Grid	
	Total_sale
▶	817860.05



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;
```




Result Grid			Filter Rows:
	name	price	
▶	The Greek Pizza	35.95	




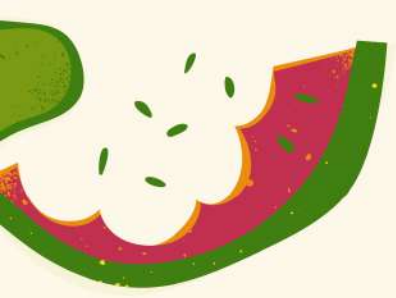
Identify the most common pizza size ordered.

```
SELECT
    pizzas.size, COUNT(orders_details.quantity)
FROM
    pizzas
    JOIN
        orders_details ON pizzas.pizza_id = orders_details.pizza_id
GROUP BY pizzas.size
ORDER BY COUNT(orders_details.quantity) DESC
LIMIT 1;
```



Result Grid			Filter Rows:
	size	COUNT(orders_details.quantity)	
▶	L	18526	





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

```
SELECT
    pizza_types.name, SUM(orders_details.quantity) AS most_fav
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 most_fav DESC
LIMIT 5;
```

Result Grid			Filter Rows:
	name	most_fav	
▶	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.



```
SELECT
    pizza_types.category,
    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.category
ORDER BY quantity DESC;
```



Result Grid   Filter Rows: <input type="text"/>		
	category	quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050






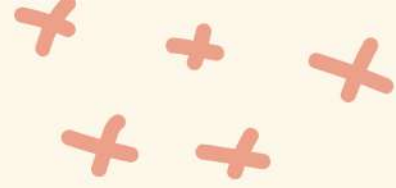
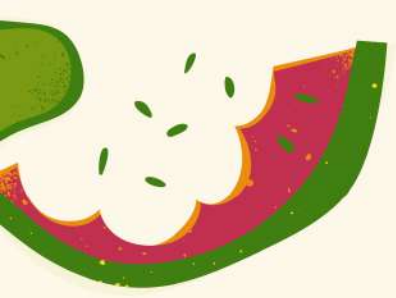
Determine the distribution of orders by hour of the day.



```
SELECT
    HOUR(order_time) AS total_orders_by_hours,
    COUNT(order_id) AS total_order
FROM
    orders
GROUP BY total_orders_by_hours
ORDER BY total_order DESC;
```






	total_orders_by_hours	total_order
▶	12	2520
	13	2455
	18	2399
	17	2336
	19	2009
	16	1920
	20	1642
	14	1472
	15	1468
	11	1231
	21	1198
	22	663
	23	28
	10	8
	9	1



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

```
SELECT
    category, COUNT(name) AS Total_pizzas
FROM
    pizza_types
GROUP BY category
ORDER BY Total_pizzas DESC;
```

An illustration of a person with dark skin and curly hair, wearing a light-colored shirt and brown pants, using a black shovel to dig in a garden bed with brown soil and green plants.


Result Grid   Filter Rows: <input type="text"/>		
	category	Total_pizzas
▶	Supreme	9
	Veggie	9
	Classic	8
	Chicken	6




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



```
SELECT
    round(AVG(quantity),0) as avg_pizza_order_per_day
FROM
    (SELECT
        orders.order_date AS perDay_order,
        SUM(orders_details.quantity) AS quantity
    FROM
        orders
    JOIN orders_details ON orders_details.order_id = orders.order_id
    GROUP BY perDay_order) AS order_quantity;
```





Result Grid		Filter Rows:
	avg_pizza_order_per_day	
▶	138	





Determine the top 3 most ordered pizza types based on revenue.



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



Result Grid		
	name	revenue
▶	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5

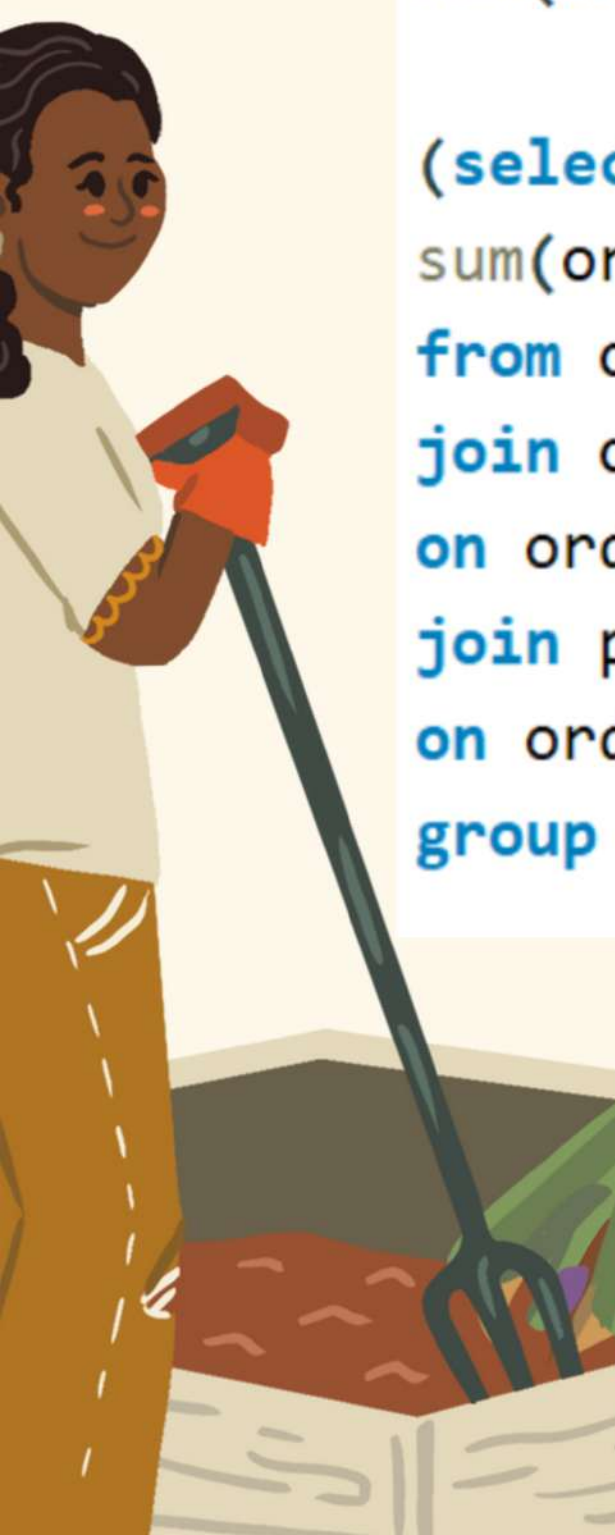
Calculate the percentage contribution of each pizza type to total revenue.

```
SELECT
    pizza_types.category,
    (SUM(orders_details.quantity * pizzas.price) / (SELECT
        ROUND(SUM(orders_details.quantity * pizzas.price),
            2)
    FROM
        orders_details
        JOIN
        pizzas ON pizzas.pizza_id = orders_details.pizza_id)) * 100 AS revenue_percentage
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_percentage;
```

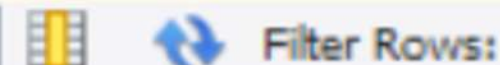
Result Grid   Filter Rows: <input type="text"/>		
	category	revenue_percentage
▶	Veggie	23.682590927384577
	Chicken	23.955137556847287
	Supreme	25.45631126009862
	Classic	26.90596025566967



Analyze the cumulative revenue generated over time.



```
select order_date,  
sum(revenue)over(order by order_date) as cum_rev from  
  
(select orders.order_date,  
sum(orders_details.quantity * pizzas.price) as revenue  
from orders  
join orders_details  
on orders.order_id = orders_details.order_id  
join pizzas  
on orders_details.pizza_id = pizzas.pizza_id  
group by orders.order_date) as Sales;
```



order_date	cum_rev
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
2015-01-12	27781.7
2015-01-13	29831.3000000000003
2015-01-14	32358.7000000000004

result 4 x



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 pizzas.pizza_id = orders_details.pizza_id
group by pizza_types.category, pizza_types.name)as a) as b
where rn <= 3 ;
```

Result Grid			Filter Rows:
	name	revenue	
▶	The Thai Chicken Pizza	43434.25	
	The Barbecue Chicken Pizza	42768	
	The California Chicken Pizza	41409.5	
	The Classic Deluxe Pizza	38180.5	
	The Hawaiian Pizza	32273.25	
	The Pepperoni Pizza	30161.75	
	The Spicy Italian Pizza	34831.25	
	The Italian Supreme Pizza	33476.75	
	The Sicilian Pizza	30940.5	
	The Four Cheese Pizza	32265.70000000065	