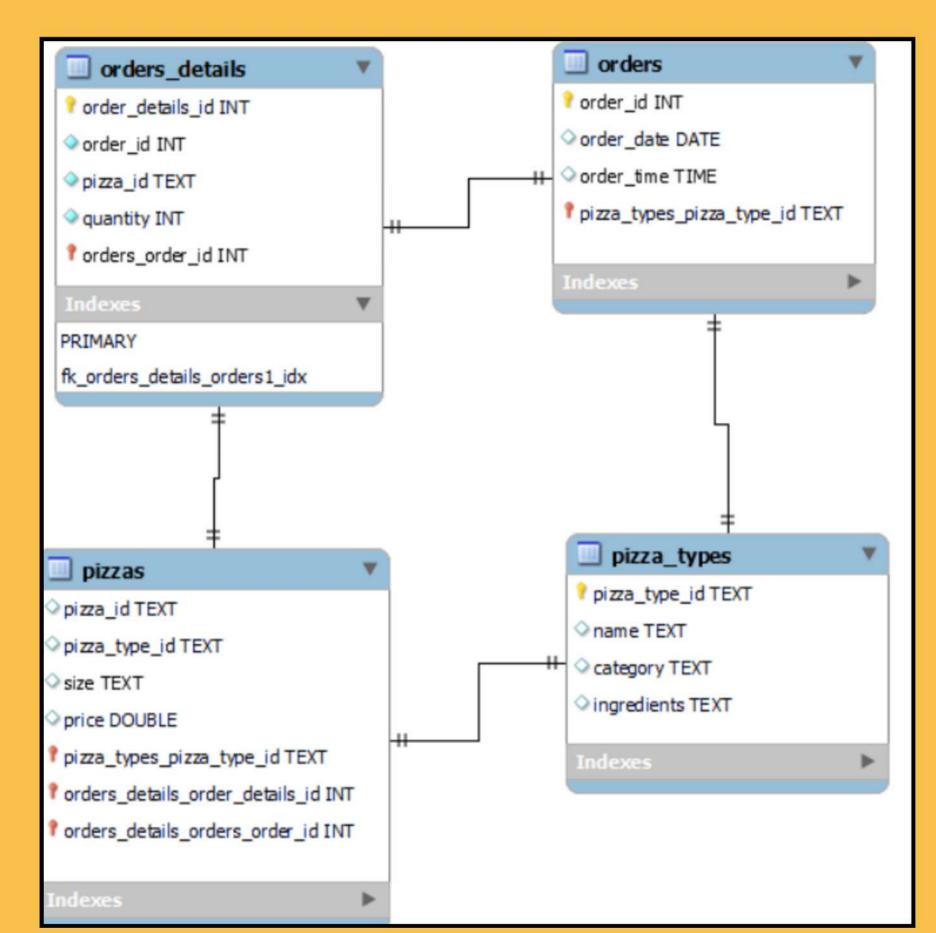


PIZZA SALES ANALYSIS USING MYSQL













RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

IDENTIFY THE HIGHEST-PRICED PIZZA.

IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

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

INTERMEDIATE:

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

DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS.

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

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

ADVANCED:

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

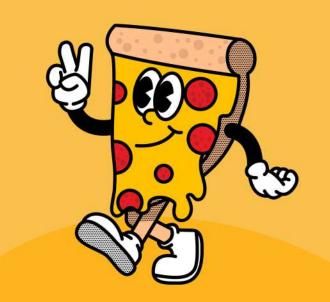
ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

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



KEY HIGHLIGHTS

TOTAL REVENUE: 817860.05
EXPENSIVE PIZZA: THE GREEK PIZZA
POPULAR SIZE: MEDIUM
TOP CATEGORY: CLASSIC
BUSIEST HOUR: 12:00
AVERAGE ORDER VALUE: 17RS.
MOST ORDERED SIZE: L





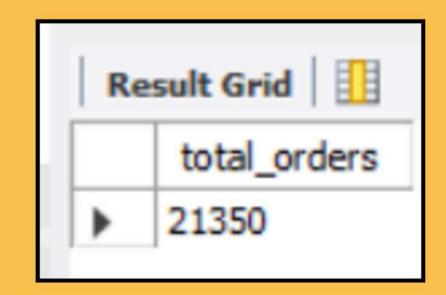
RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED

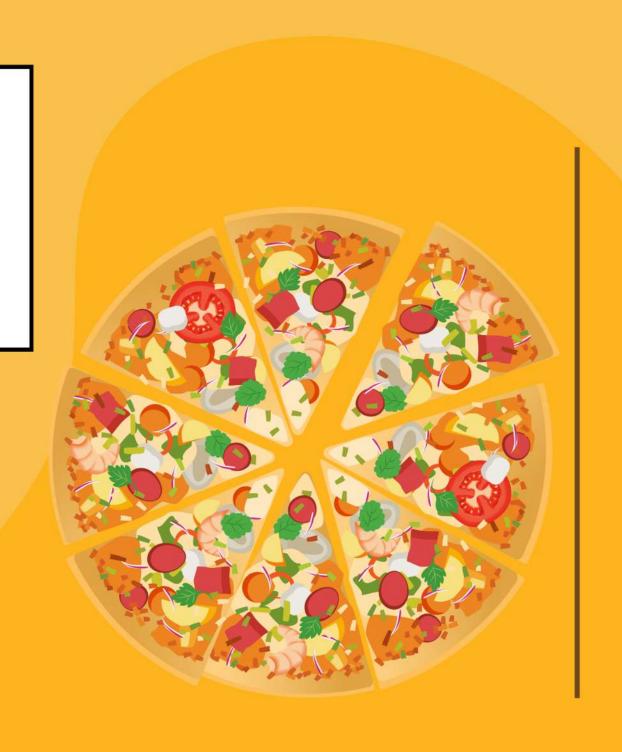
SELECT

COUNT(order_id) AS total_orders

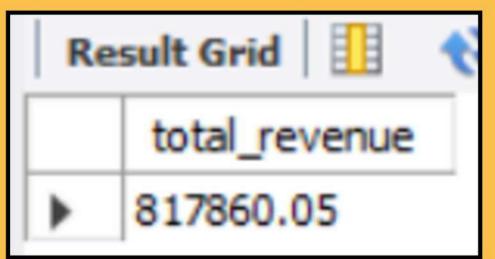
orders;

FROM



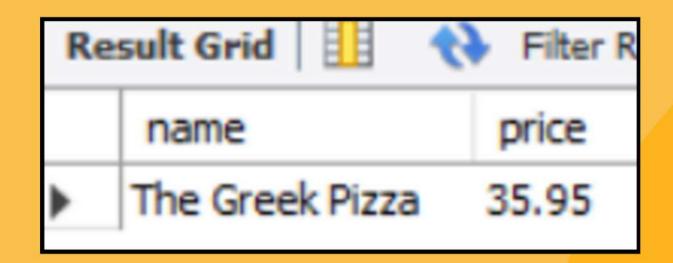


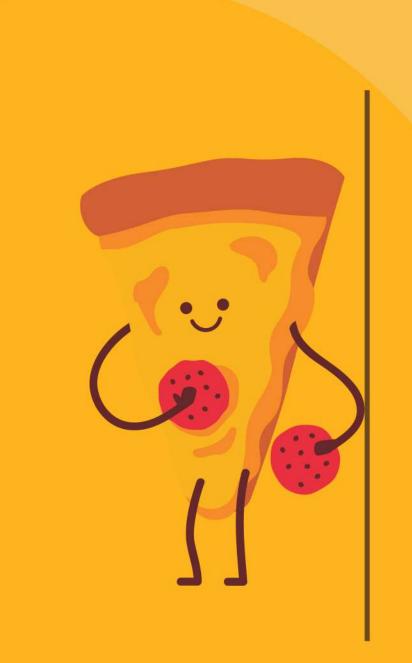
CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES



IDENTIFY THE HIGHEST-PRICED PIZZA

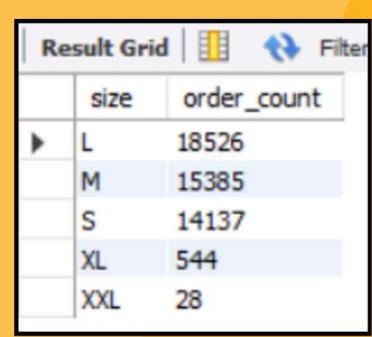


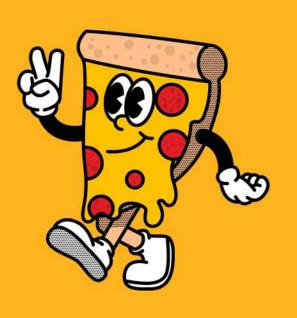




IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED







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

```
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;
```



Re	Result Grid		
	category	quantity	
٠	Classic	14888	
	Supreme	11987	
	Veggie	11649	
	Chicken	11050	

DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY

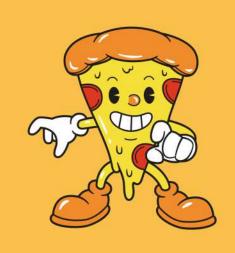
```
SELECT
   HOUR(order_time) as hour, COUNT(order_id) as order_count
FROM
   orders
GROUP BY HOUR(order_time);
```



Ī	Result Grid				Tile .
1	Result Grid			44	Fill
		hour	order	_coun	t
	•	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		

JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS

```
SELECT
category, COUNT(name)
FROM
pizza_types
GROUP BY category;
```





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

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

```
SELECT

ROUND(AVG(quantity), 0) as avg_pizza_ordered_per_day

FROM

(SELECT

orders.order_date, SUM(orders_details.quantity) AS quantity

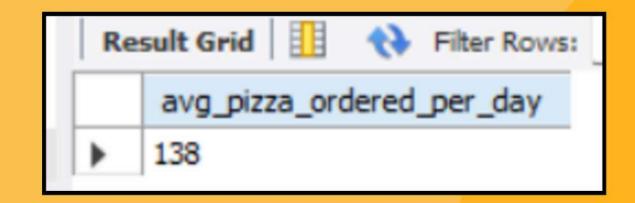
FROM

orders

JOIN orders_details ON orders.order_id = orders_details.order_id

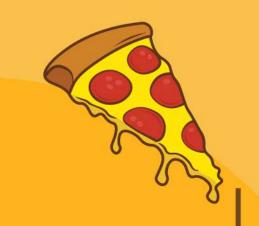
GROUP BY orders.order_date) AS order_quantity;
```





DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE

```
SELECT
    pizza_types.name,
    SUM(pizzas.price * orders_details.quantity) 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;
```

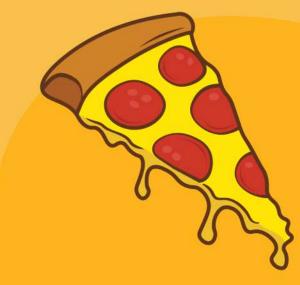




	name	revenue
•	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5

CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE

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



	category	revenue	
٨	Classic	26.91	
	Supreme	25.46	
	Chicken	23.96	
	Veggie	23.68	





order_date	cum_revenue	
2015-01-01	2713.8500000000004	
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	23990.350000000002	
2015-01-11	25862.65	
2015-01-12	27781.7	



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



select category, name, revenue from
(select category, name, revenue, rank()
over(partition by category order by revenue desc)
as rn from (select pizzas_types.name,pizza_types.category,
sum(orders_details.quantity*pizzas.price) as Revenue
from pizza_types
<pre>join pizzas on pizzas.pizza_type_id=pizza_types.pizza_type_id</pre>
<pre>join orders_details on orders_details.pizza_id=pizzas.pizza_id</pre>
group by category, name) as a) as b
where rn<=3;

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

Thank You