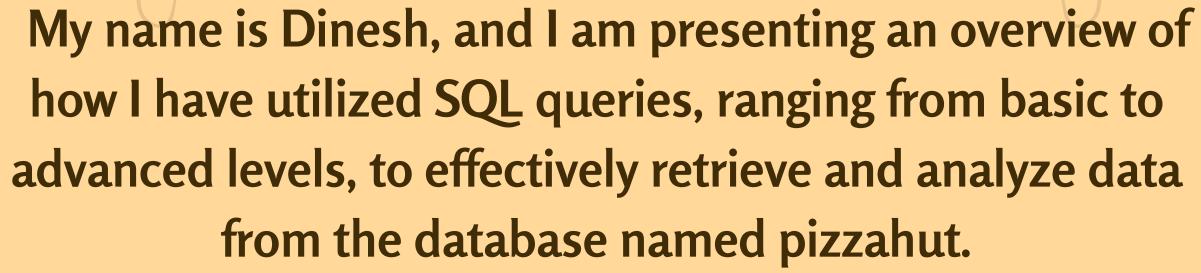


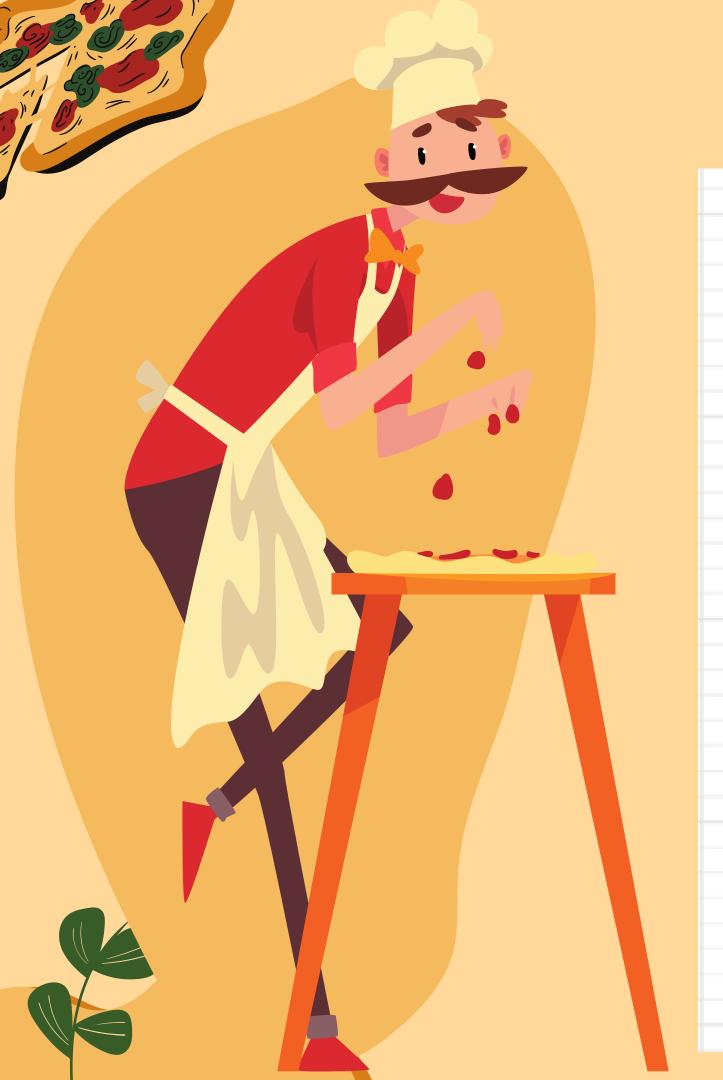
SQL PROJECT ON PIZZA DATABASE



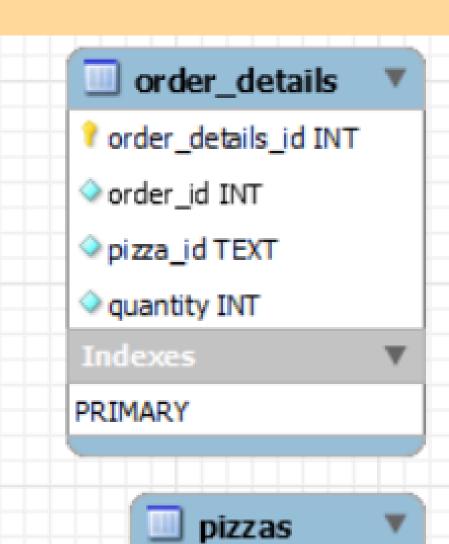








EER DIAGRAM

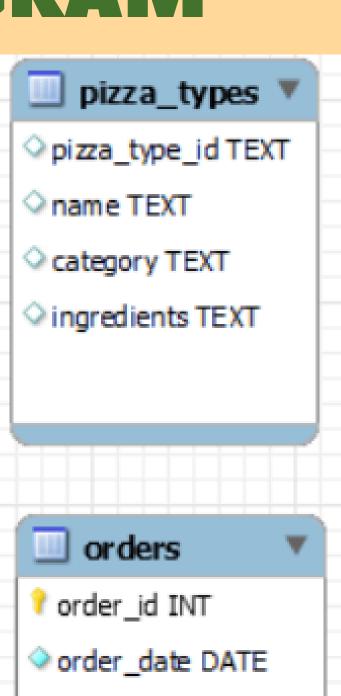


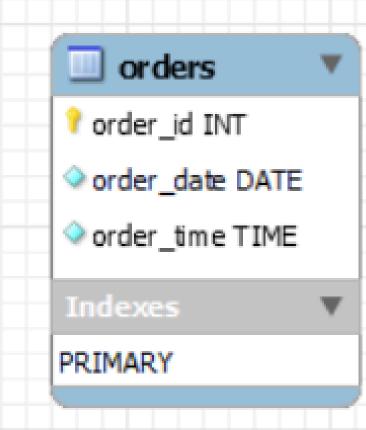
pizza_id TEXT

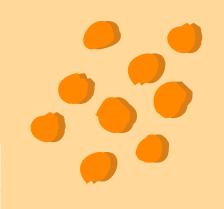
price DOUBLE

size TEXT

pizza_type_id TEXT











1.Retrieve the total number of orders placed.

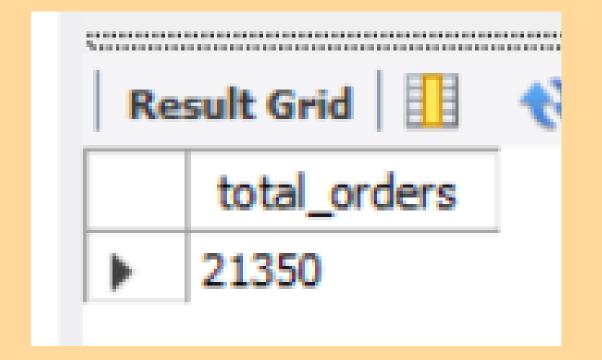


```
SELECT

COUNT(order_id) as total_orders

FROM

orders AS total_orders;
```

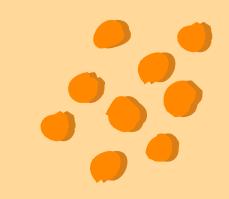








2. Calculate the total revenue generated from pizza sales.



```
SELECT

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

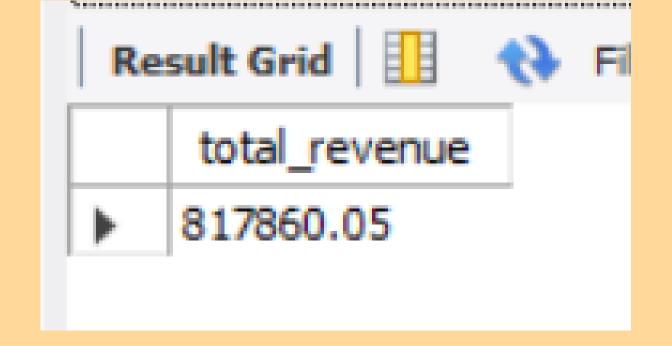
2) AS total_revenue

FROM

order_details

JOIN

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

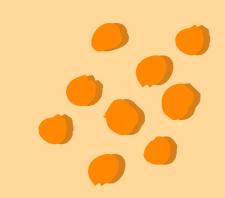




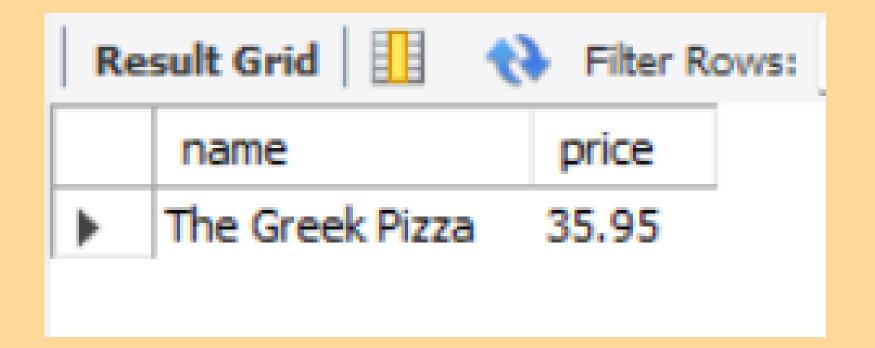




3.ldentify the highest-priced pizza.



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





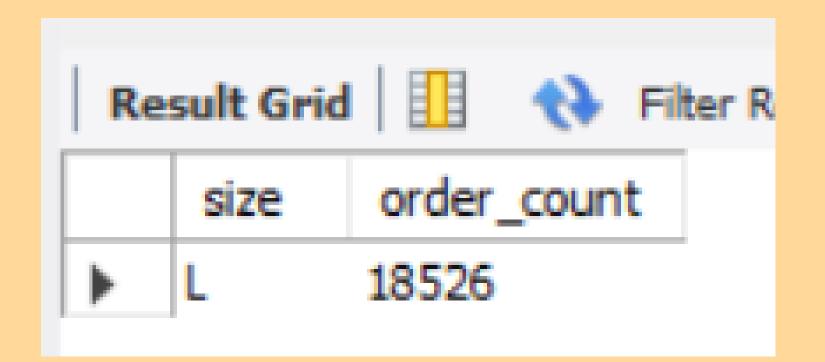




4. Identify the most common pizza size ordered.



```
select pizzas.size, count(order_details.order_details_id) as order_count
from pizzas join order_details
on order_details.pizza_id = pizzas.pizza_id
group by pizzas.size
order by order_count desc limit 1;
```

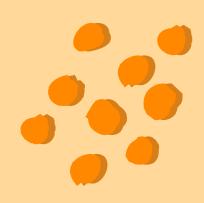








5.Identify the most common pizza size ordered.



```
select pizzas.size, count(order_details.order_details_id) as order_count
from pizzas join order_details
on order_details.pizza_id = pizzas.pizza_id
group by pizzas.size
order by order_count desc;
```

Re	Result Grid			
	size	order_count		
 	L	18526		
	M	15385		
	S	14137		
	XL	544		
	XXL	28		





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

select pizza_types.name , 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.name
order by quantity desc limit 5;

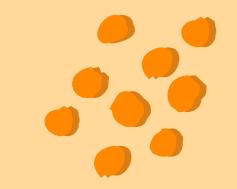
Result Grid			
	name	quantity	
•	The Classic Deluxe Pizza	2453	
	The Barbecue Chicken Pizza	2432	
	The Hawaiian Pizza	2422	
	The Pepperoni Pizza	2418	
	The Thai Chicken Pizza	2371	







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



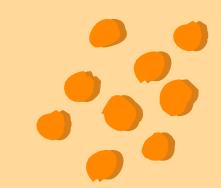
```
SELECT
    pizza_types.category,
    SUM(order_details.quantity) AS total_quantity
FROM
    pizza_types
        JOIN
    pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
        JOIN
    order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category
ORDER BY total_quantity DESC;
```

category	total_quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050





8.Determine the distribution of orders by hour of the day.



SELECT

HOUR(order_time) AS hour, COUNT(order_id) AS total_orders

FROM

orders

GROUP BY hour

ORDER BY hour;

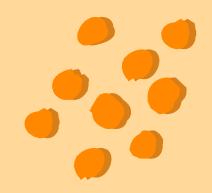
Result Grid			
	hour	total_orders	
•	9	1	
	10	8	
	11	1231	
	12	2520	
	13	2455	

Res	sult Grid		43	Filt
	hour	total	_order:	S
	14	1472		
	15	1468		
	16	1920		
	17	2336		
	18	2399		

Re	sult Grid	🔢 🛟 Filt
	hour	total_orders
	19	2009
	20	1642
	21	1198
	22	663
	23	28



9.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







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



```
ROUND(AVG(quantity), 0) as avg_pizzas_per_day

FROM

(SELECT

    orders.order_date AS date,

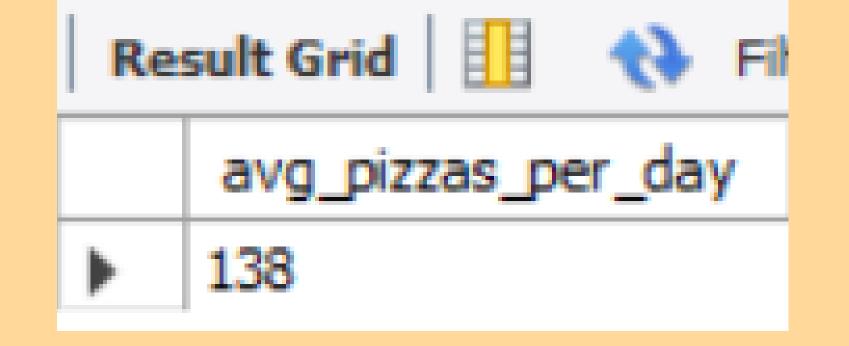
    SUM(order_details.quantity) AS quantity

FROM

    order_details

JOIN orders ON order_details.order_id = orders.order_id

GROUP BY date) AS order_quantity;
```









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



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

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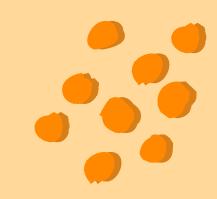


Result Grid 111			
	name	revenue	
•	The Thai Chicken Pizza	43434.25	
	The Barbecue Chicken Pizza	42768	
	The California Chicken Pizza	41409.5	





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



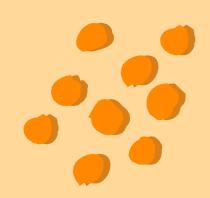
```
pizza_types.category as category,
    round((SUM(order_details.quantity * pizzas.price)/(SELECT
    ROUND(SUM(order_details.quantity * pizzas.price),
            2) AS total_revenue
FROM
    order_details
        JOIN
    pizzas ON order_details.pizza_id = pizzas.pizza_id))* 100,2) as contribution
FROM
    pizza_types
        JOIN
    pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
        JOIN
    order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY category
ORDER BY contribution desc;
```

Result Grid 1			
	category	contribution	
•	Classic	26.91	
	Supreme	25.46	
	Chicken	23.96	
	Veggie	23.68	





13.Analyze the cumulative revenue generated over time.

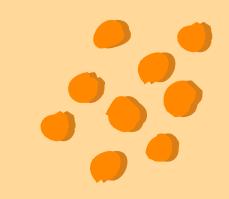


```
select order_date, sum(revenue) over (order by order_date) as cumulative_rev
from
(SELECT
   orders.order_date,
    SUM(order_details.quantity * pizzas.price) AS revenue
FROM
    order_details
        JOIN
   orders ON order_details.order_id = orders.order_id
        JOIN
    pizzas ON pizzas.pizza_id = order_details.pizza_id
GROUP BY orders.order_date) as sales;
```





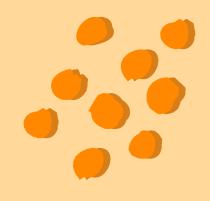
14. Determine the top 3 most ordered pizza types based on revenue for each pizza category.

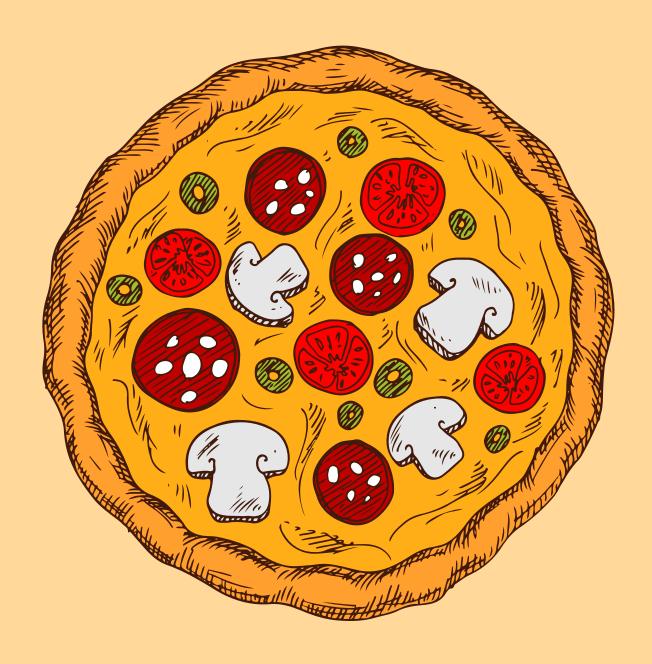


```
select name, revenue from
(select category, name, revenue,
rank() over(partition by category order by revenue desc) as rn
from
(select pizza_types.category, pizza_types.name,
sum(order_details.quantity * pizzas.price) as revenue
from pizza_types
join
pizzas on pizza_types.pizza_type_id = pizzas.pizza_type_id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









THANK YOUC



