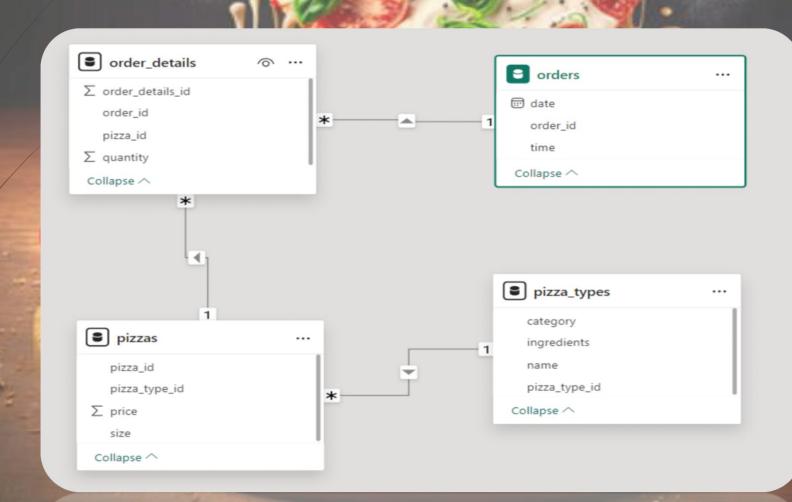
PIZZA SALES ANALYSIS (SQL)







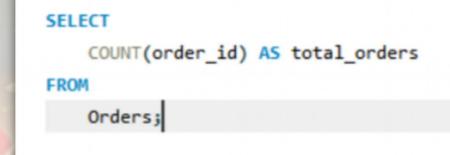
Schema Design

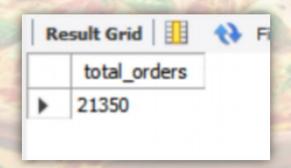


To ASK!

- Basic:
- 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.

Q1. Retrieve the total number of orders placed.





Q2. Calculate the total revenue generated from pizza sales.

```
SELECT

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

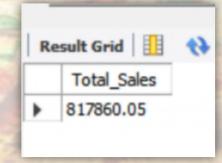
2) AS Total_Sales

FROM

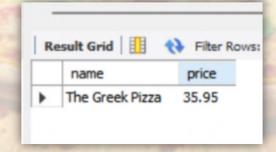
order_details

JOIN

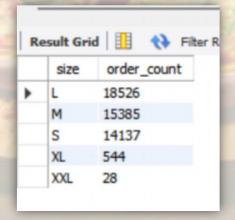
pizzas ON order_details.pizza_id = pizzas.pizza_id;
```



Q3. Identify the highest-priced pizza.



Q4. Identify the most common pizza size ordered.



Q5. List the top 5 most ordered pizza types along with their quantities.

```
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 order_details.pizza_id = pizzas.pizza_id

GROUP BY pizza_types.name

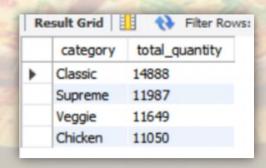
ORDER BY Total_quantity DESC

LIMIT 5;
```

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

Q6. 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 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 total_quantity DESC;
```

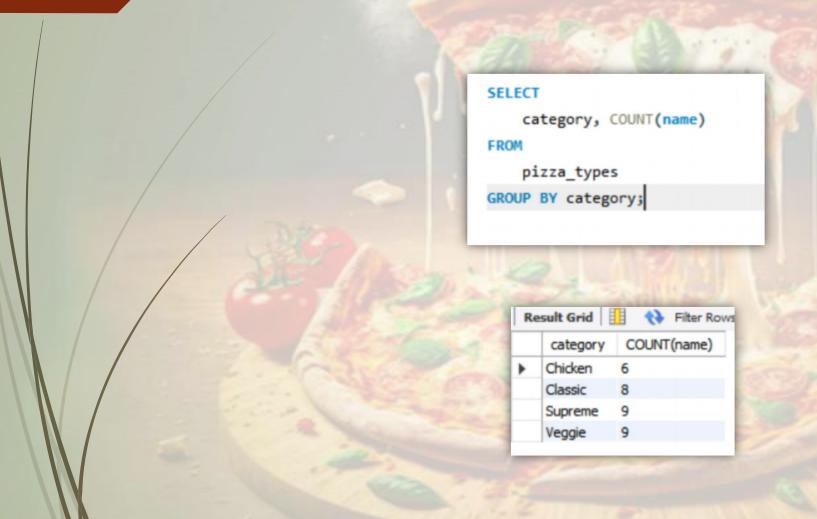


Q7. Determine the distribution of orders by hour of the day.

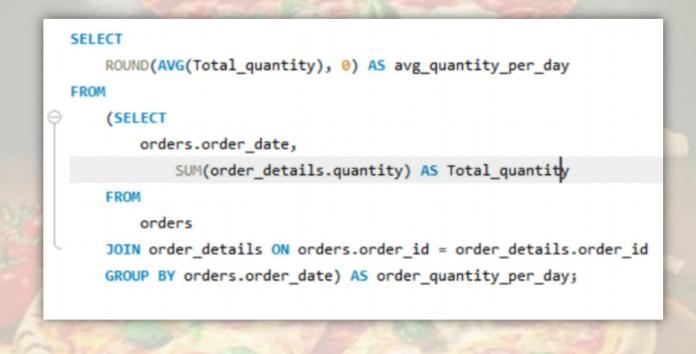


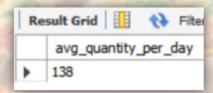
R	esult Gri	d 📙 🛟 Fil
	Hour	Total_orders
•	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336
	18	2399

Q8. Join relevant tables to find the category-wise distribution of pizzas.



Q9. Group the orders by date and calculate the average number of pizzas ordered per day.





Q10. 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 pizza_types.pizza_type_id = pizzas.pizza_type_id

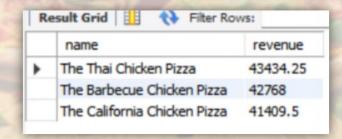
JOIN

order_details ON order_details.pizza_id = pizzas.pizza_id

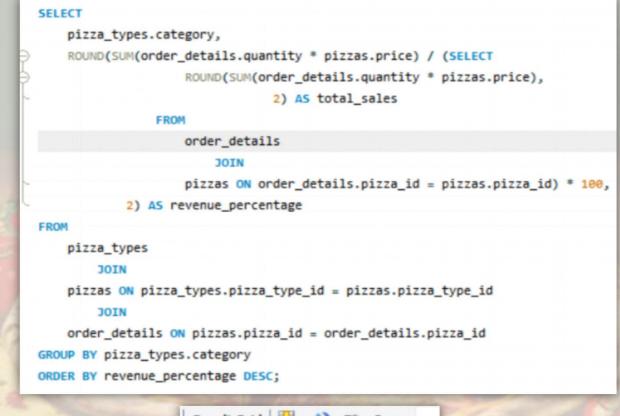
GROUP BY pizza_types.name

ORDER BY revenue DESC

LIMIT 3;
```



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



R	esult Grid	Filter Rows:
	category	revenue_percentage
١	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

Q12. Analyze the cumulative revenue generated over time.

```
SELECT order_date, SUM(revenue) OVER (ORDER BY order_date) AS cum_revenue
FROM

(SELECT orders.order_date, ROUND(SUM(order_details.quantity * pizzas.price),2) AS 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;
```

Re	Result Grid		
	order_date	cum_revenue	
•	2015-01-01	2713.85	
	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	

Q13. 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 rank_category

FROM

(SELECT pizza_types.category, pizza_types.name,

ROUND(SUM(order_details.quantity * pizzas.price),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, pizza_types.name) AS category_revenue) AS rank_table

WHERE rank_category <= 3;
```

R	Result Grid			
	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		

