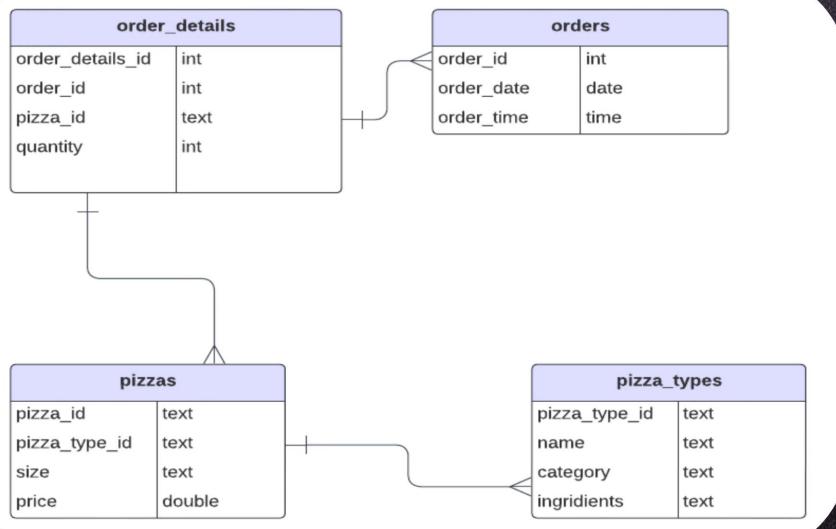


Objective

This project looks at pizza sales numbers to find out how well restaurant is doing and what trends are there. This information is used to make smarter decisions and plan better for the future.

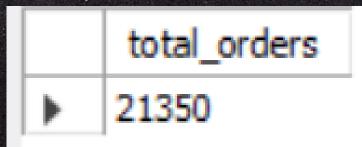
Data model view

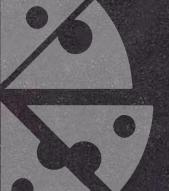


Q1:Retrieve the total number of orders placed.

Query:

```
SELECT
    COUNT(order_id) AS total_orders
FROM
    orders;
```

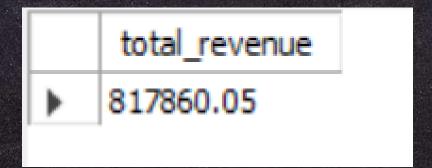




Q2:Calculate the total revenue generated from pizza sales.

Query:

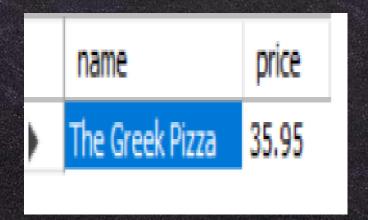
```
SELECT
    ROUND(SUM(order_details.quantity * pizzas.price),
            2) AS total_revenue
FROM
    order_details
        JOIN
    pizzas ON pizzas.pizza_id = order_details.pizza_id;
```





Q3:Identify the highest-priced pizza.

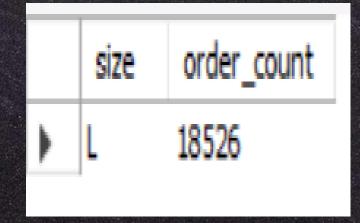
Query:



Q4:Identify the most common pizza size ordered.

Query:

```
SELECT
   pizzas.size,
   COUNT(order_details.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
LIMIT 1;
```





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

Query:

```
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;
```

	name	quantity
þ	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.

Query:

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

	category	quantity
•	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

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

Query:

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

	hour	order_count
•	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

Q8: Join relevant tables to find the categorywise distribution of pizzas.

Query:

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

	category	count
*	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

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

Query:

```
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;
```

Output:

avg_pizza_ordered_per_day

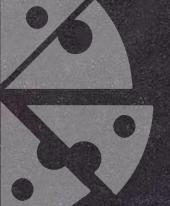
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Q10: Determine the top 3 most ordered pizza types based on revenue.

Query:

```
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 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



Q11:Calculate the percentage contribution of each pizza type to total revenue.

Query:

```
SELECT
   pizza types.category,
    ROLND(SUM(order_details.quantity * pizzas.price) / (SELECT
                    ROUND(SUM(order_details.guantity * pizzas.price),
                                2) AS total sales
                FROM
                    order details
                    pizzas ON pizzas.pizza id - order details.pizza id) * 100,
            AS revenue
FROM
   pizza_types
   pizzas ON pizza types.pizza type id = pizzas.pizza type id
   order details ON order details.pizza_id = pizzas.pizza_id
GROUP BY pizza types.category
ORDER BY revenue DESC:
```

	category	revenue
	Classic	26.91
	Supreme	25.46
•	Chicken	23.96
	Veggie	23.68



Q12: Analyze the cumulative revenue generated over time.

Query:

```
select order_date, sum(revenue) over(order by order_date) as cum_revenue
from
(select orders.order date,
sum(order_details.quantity*pizzas.price) 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;
```

	order_date	cum_revenue
١	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	23990.350000000002
	2015-01-11	25862.65
	2015-01-12	27781.7
	2015-01-13	29831.300000000003

Q13: Determine the top 3 most ordered pizza types based on revenue for each pizza category.

Query:

```
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;
```

	name	revenue
þ	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
	The Mexicana Pizza	26780.75
	T C A D	20000

