

Pizza Sales - SQL



By Mohd Muinuddin







Hello! My name is Mohd Muinuddin. I have utilized the pizza sales dataset. The SQL project combines data from the orders, order details, pizza, and pizza type tables to create a dynamic sales analysis, highlighting key metrics such as best-selling pizzas, order volume trends, and revenue by pizza type.



Project Goals

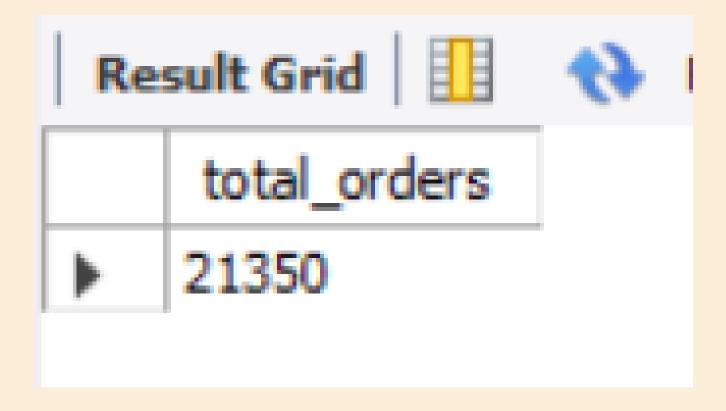


- Calculate the total revenue generated from pizza sales.
- Identify the highest-priced pizza.
- Identify the most common pizza size ordered.
- List the top 5 most ordered pizza types along with their quantities.
- Find the total quantity of each pizza category ordered.
- Determine the distribution of orders by hour of the day.
- 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.

Retrieve the total number of orders placed



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



Calculate the total revenue generated from pizza sales



```
SELECT

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

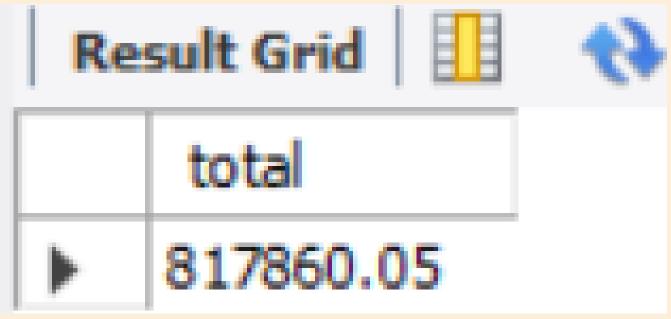
2) AS total

FROM

orders_details

JOIN

pizzas ON pizzas.pizza_id = orders_details.pizza_id;
```



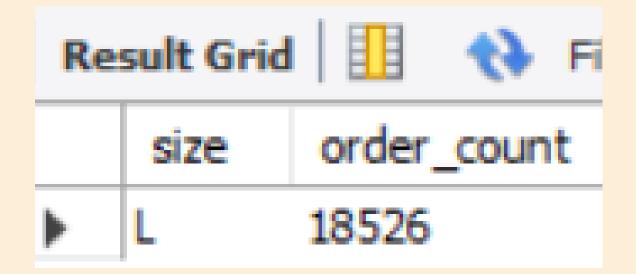
Identify the highest-priced pizza.





Re	sult Grid	♦ Filter i
	name	price
•	The Greek Pizza	35.95

Identify the most common pizza size ordered





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



```
SELECT
    pizza_types.name, 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.name
ORDER BY quantity DESC
LIMIT 5;
```

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

Find the total quantity of each pizza category ordered



```
SELECT
   pizza_types.category,
   SUM(orders_details.quantity) AS Total_quantity
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.category
ORDER BY Total_quantity DESC;
```

	category	Total_quantity
•	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

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



```
SELECT
    pizza_types.name, 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.name
ORDER BY quantity DESC
LIMIT 5;
```

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

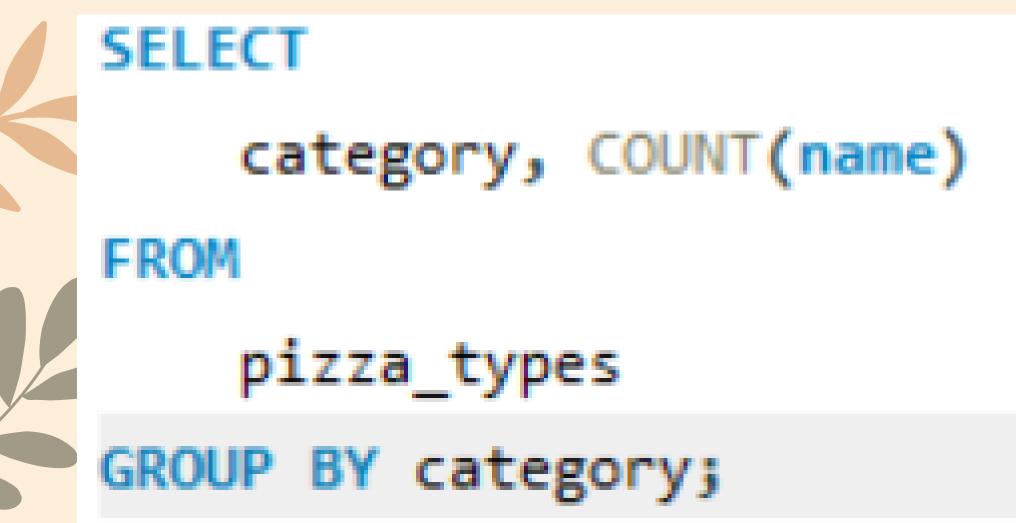
Determine the distribution of orders by hour of the day

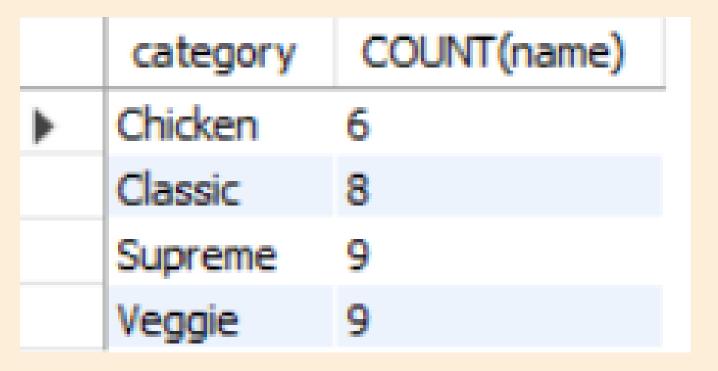
```
SELECT
   HOUR(order_time), COUNT(order_id) AS order_count
FROM
   orders
GROUP BY HOUR(order_time);
```

	hour(order_time)	order_count
>	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336
	18	2399
	19	2009
	20	1642
	21	1198

Find the category-wise distribution of pizzas









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

```
SELECT

ROUND(AVG(quantity), 0) AS avg_pizzas_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;
```

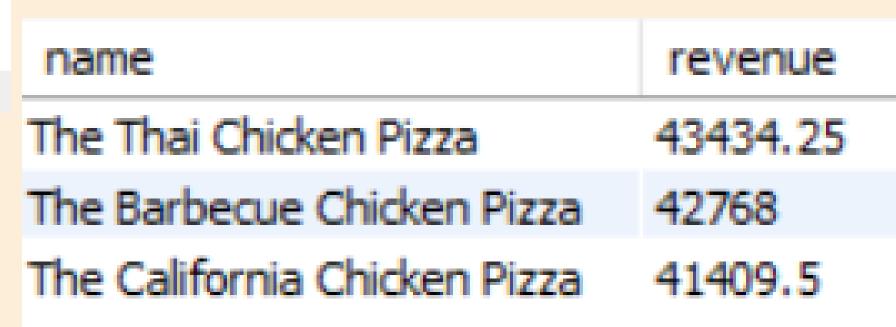




Find the top 3 most ordered pizza based on the

revenue

```
SELECT
    pizza_types.name,
    ROUND(SUM(orders_details.quantity * pizzas.price),
            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.name
ORDER BY revenue DESC
LIMIT 3;
```





Calculate the category-wise contribution of each pizza type to total revenue

```
SELECT
   pizza_types.category,
   ROUND(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 orders_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category
ORDER BY revenue DESC
LIMIT 3;
```

category	revenue
Classic	220053.1
Supreme	208197
Chicken	195919.5

```
WITH RevenueCTE AS (
   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 orders_details.pizza_id = pizzas.pizza_id
   GROUP BY
       pizza_types.category,
       pizza_types.name
RankedCTE AS
   SELECT
       category,
       name,
       revenue,
       RANK() OVER (PARTITION BY category ORDER BY revenue DESC) AS rn
   FROM
       RevenueCTE
SELECT
   category, name, revenue
FROM
   RankedCTE
WHERE
   rn <= 3;
```

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

category

	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



