# Pizza Sales report

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2024

### Introduction

Greetings! My name is Shreesh Tiwari, and I'm excited to present my project on analyzing pizza sales using SQL queries. In this project, I delve into the rich world of pizza sales data to uncover valuable insights. By leveraging SQL, I've crafted queries to address various questions pertaining to pizza sales trends, customer preferences, and more. Through meticulous analysis and query optimization, I aim to provide actionable insights that can inform strategic decisions for pizza businesses. Join me on this journey through the flavors and numbers of the pizza industry!



#### Retrieve the total number order placed

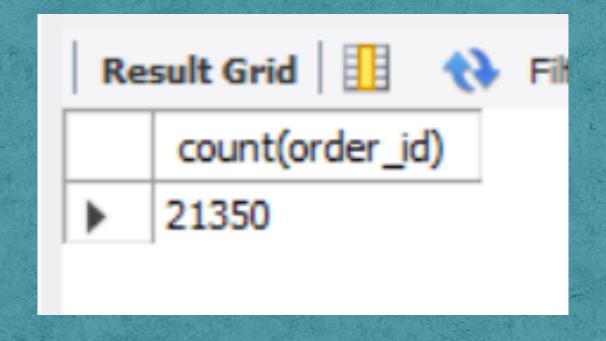
```
Limit to 1000 rows

1 -- Retrieve the total number order placed

2

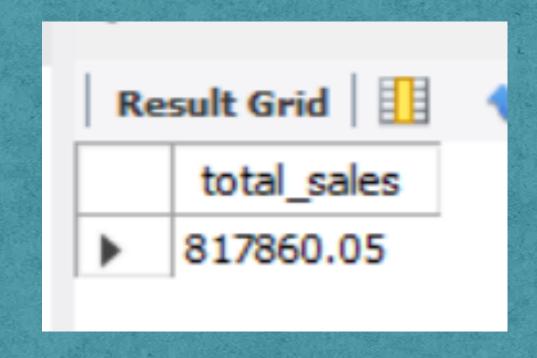
3 • select count(order_id) from orders;
```





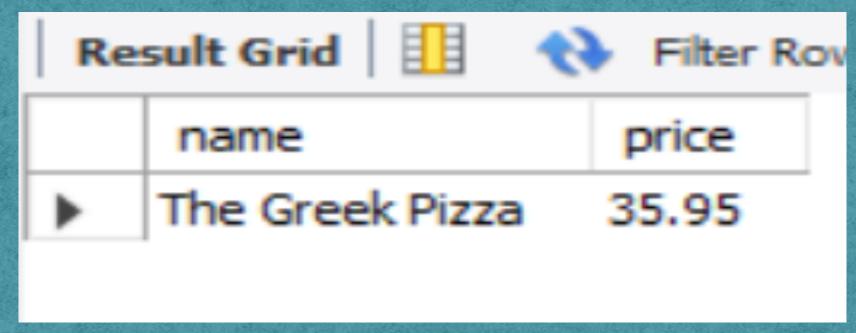
#### Retrieve a total revenue genrated from pizza sales

```
Limit to 1000 rows
       -- Retrieve a total revenue genrated from pizza sales
       SELECT
           ROUND(SUM(order_details.quantity * pizzas.price),
5
                   AS total_sales
       FROM
           order_details
               JOIN
           pizzas ON pizzas.pizza_id = order_details.pizza_id;
```

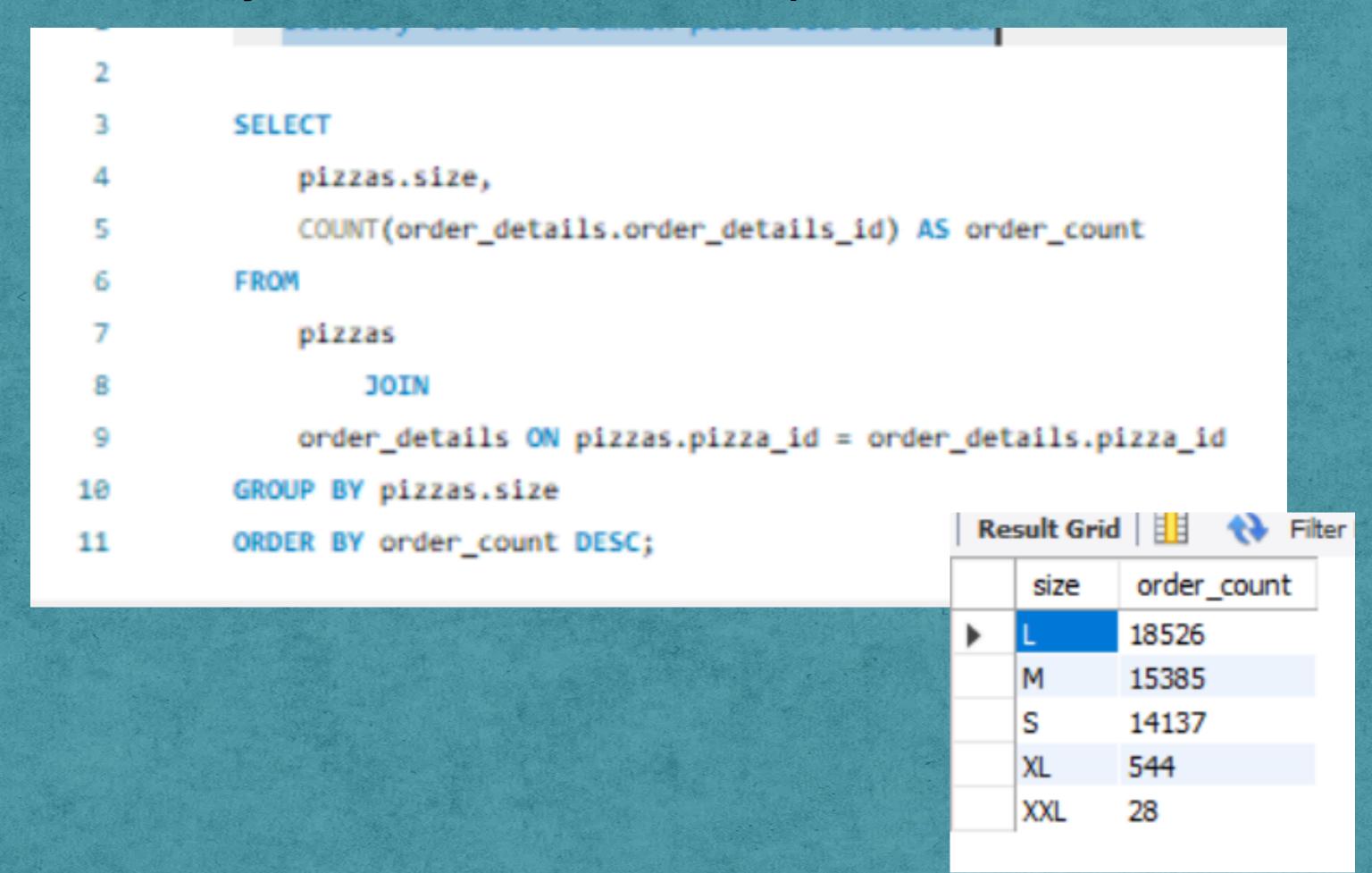


#### Identify the highest-priced pizza.

```
Limit to 1000 rows
        SELECT
           pizza_types.name, pizzas.price
        FROM
           pizza_types
               JOIN
           pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        ORDER BY pizzas.price DESC
 9
       LIMIT 1;
10
```



### Identify the most common pizza size ordered.



### 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;
```

	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

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

```
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;
```

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

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

```
SELECT

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

FROM

orders

GROUP BY HOUR(order_time);
```

	hour	order_id	
•	11	1231	
	12	2520	
	13	2455	
	14	1472	
	15	1468	
	16	1020	

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

```
select count(name), category from pizza_types
group by category;
```

Re	sult Grid	Filter Rov
	count(name)	category
•	6	Chicken
	8	Classic
	9	Supreme
	9	Veggie

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

```
SELECT

ROUND(AVG(quantity), 0) as avd_pizza_order_perDay

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;
```

```
avd_pizza_order_perDay

138
```

### Determine the top 3 most ordered pizza types based on revenue

```
SELECT
   pizza_types.name,
   SUM(pizzas.price * order_details.quantity) AS revenue
FROM
   pizzas
        JOIN
   pizza_types 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 pizza\_types.na
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.

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

	category	revenue
•	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

## 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;
```

	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 Denneroni Dizza	30161 75

### Analyze the cumulative revenue generated over time.

```
select order_date,
sum(revenue) over (order by order_date) as cm_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;
```

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	order_date	cm_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
Dor	2015-01-06	14358 5

### Thank You!!!