



MySQL
SQL REPORT ON

PIZZA SALES

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ABOUT THE REPORT

Hi guys My name is Ritam bhowmick and here I have created sample pizza sales report using SQL queries

PROBLEMS MENU

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.

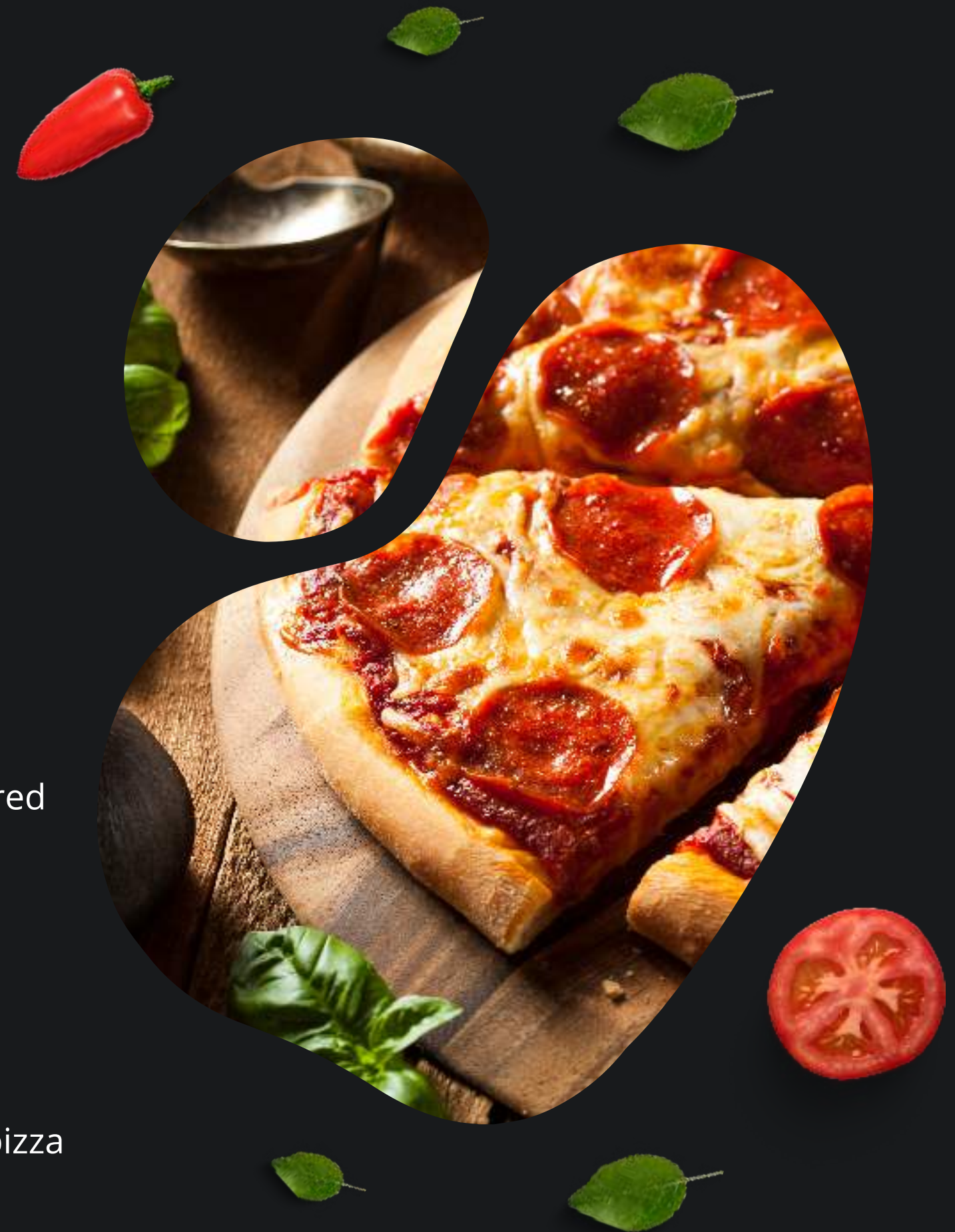
Determine the top 3 most ordered pizza types based on revenue.

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.



RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

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

OUTPUT

	count(order_id)
▶	21350

CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

```
• SELECT SUM(order_details.quantity * pizzas.price) AS total_price  
FROM order_details  
JOIN pizzas ON pizzas.pizza_id = order_details.pizza_id;
```

	total_price
▶	817860.04999999993

IDENTIFY THE HIGHEST-PRICED PIZZA.

```
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 limit 1;
```

Result Grid			Filter Rows:
	name	price	
▶	The Greek Pizza	35.95	

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 pizzas.pizza_id=order_details.pizza_id
group by pizzas.size order by order_count desc;
```

Result Grid			Filter Rows
	size	order_count	
▶	L	18526	
	M	15385	
	S	14137	
	XL	544	
	XXL	28	

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 order by quantity desc;
```

Result Grid			Filter R
	category	quantity	
►	Classic	14888	
	Supreme	11987	
	Veggie	11649	
	Chicken	11050	

DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

```
SELECT DATE_FORMAT(orders.order_time, '%H') AS hour, COUNT(*) AS order_count
FROM orders
GROUP BY DATE_FORMAT(orders.order_time, '%H')
ORDER BY hour;
```

09	1
10	8
11	1231
12	2520
13	2455

hour	order_count
12	2520
13	2455
14	1472
15	1468
16	1920

JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS.

```
SELECT
    pizza_types.category,
    COUNT(pizza_types.name) AS order_count
FROM
    pizza_types
GROUP BY
    pizza_types.category
```

	category	order_count
	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.

```
SELECT AVG(daily_quantity) AS average_pizzas_per_day
FROM (
  SELECT
    orders.order_date,
    SUM(order_details.quantity) AS daily_quantity
  FROM
    orders
  JOIN
    order_details ON orders.order_id = order_details.order_id
  GROUP BY
    orders.order_date
) AS daily_totals;
```

	average_pizzas_per_day
▶	138.4749

DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.

```
• SELECT pizza_types.name AS pizza_type,  
        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;
```

	pizza_type	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 AS pizza_type,  
       round( (SUM(order_details.quantity * pizzas.price) / (SELECT SUM(order_details.quantity * pizzas.price) AS total_price  
FROM order_details  
JOIN pizzas ON pizzas.pizza_id = order_details.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;
```

	pizza_type	revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```
• SELECT orders.order_date ,  
      SUM(order_details.quantity * pizzas.price) AS daily_revenue,  
      SUM(SUM(order_details.quantity * pizzas.price))  
      OVER (ORDER BY orders.order_date ROWS BETWEEN UNBOUNDED PRECEDING AND CURRENT ROW) AS cumulative_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  
ORDER BY orders.order_date;
```

	order_date	daily_revenue	cumulative_revenue
▶	2015-01-01	2713.85000000000004	2713.85000000000004
	2015-01-02	2731.89999999999996	5445.75
	2015-01-03	2662.39999999999996	8108.15
	2015-01-04	1755.45000000000003	9863.6
	2015-01-05	2065.95	11929.55

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



THANK
FOR YOU