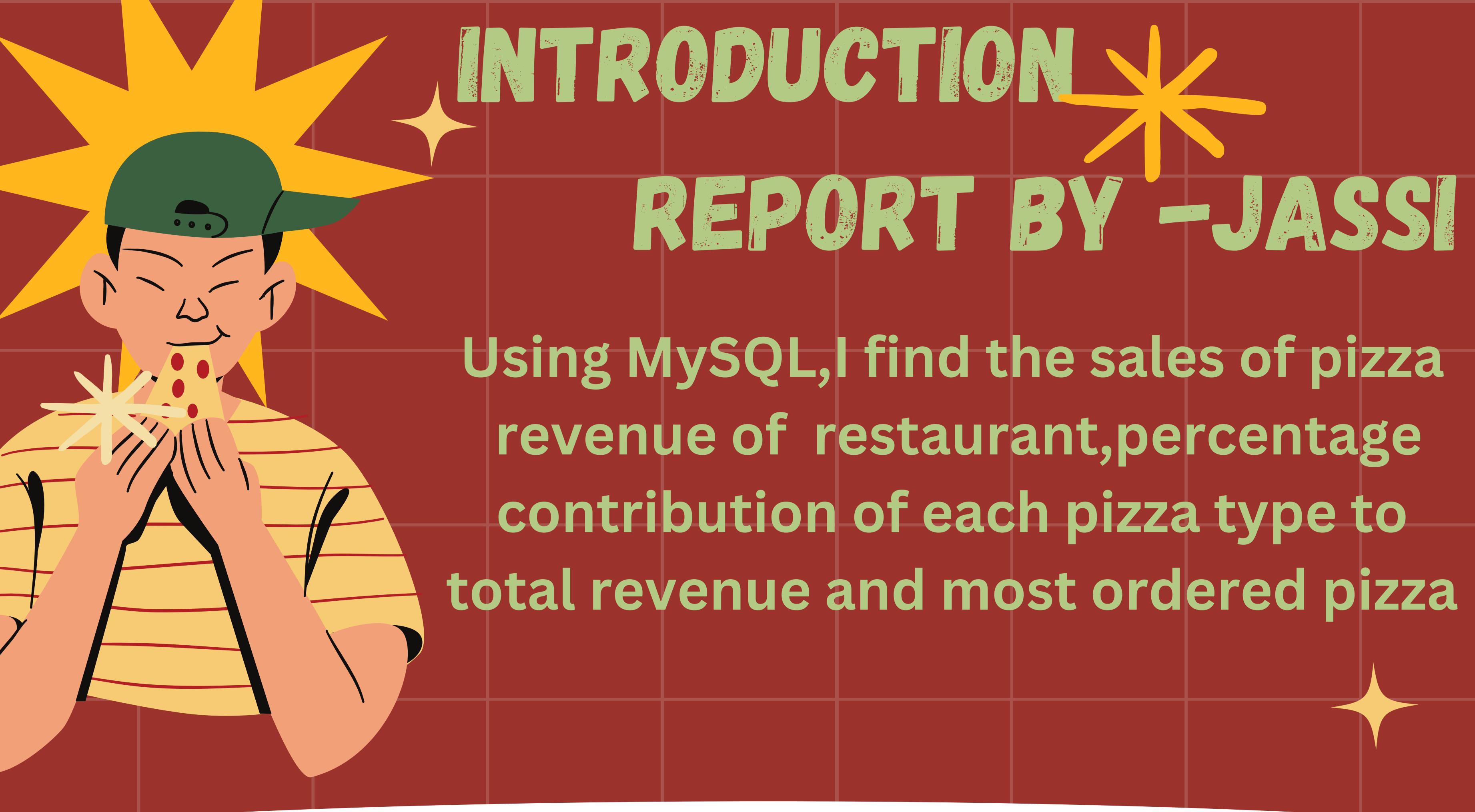


Pizza Sales Report

SQL
Project





INTRODUCTION *

REPORT BY -JASSI

Using MySQL,I find the sales of pizza
revenue of restaurant,percentage
contribution of each pizza type to
total revenue and most ordered pizza

QUERIES

Retrieve the total number of orders placed.

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

Result Grid	
	total_order
▶	21350

QUERIES

Calculate the total revenue generated from pizza sales.

SELECT

```
ROUND(SUM(a.Quantity * b.price), 2) AS total_sales
```

FROM

```
order_details AS a
```

JOIN

```
pizzas AS b ON a.pizza_id = b.pizza_id;
```

Result Grid

	total_sales
▶	817860.05

QUERIES

Identify the highest-priced pizza.

```
SELECT  
    MAX(pz.price)  
FROM  
    pizza_types AS p  
JOIN  
    pizzas AS pz ON p.pizza_type_id = pz.pizza_type_id;
```

Result Grid

	MAX(pz.price)
▶	35.95

QUERIES

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
LIMIT 1;
```

	size	order_count
▶	L	18526

QUERIES

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

SELECT

```
c.name,  
SUM(a.Quantity) AS pizza_count
```

FROM

```
order_details AS a
```

JOIN

```
pizzas AS b ON a.pizza_id = b.pizza_id
```

JOIN

```
pizza_types AS c ON b.pizza_type_id = c.pizza_type_id
```

GROUP BY

```
c.name
```

ORDER BY

```
pizza_count DESC
```

LIMIT 5;

Result Grid



Filter Rows:

	name	pizza_count
▶	The Classic Deluxe Pizza	2453
▶	The Barbecue Chicken Pizza	2432
▶	The Hawaiian Pizza	2422
▶	The Pepperoni Pizza	2418
▶	The Thai Chicken Pizza	2371

QUERIES

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

SELECT

```
c.category,  
SUM(a.Quantity) AS pizza_category_count
```

FROM

```
order_details AS a
```

JOIN

```
pizzas AS b ON a.pizza_id = b.pizza_id
```

JOIN

```
pizza_types AS c ON b.pizza_type_id = c.pizza_type_id
```

GROUP BY

```
c.category
```

ORDER BY

```
pizza_category_count DESC;
```

Result Grid | Filter Rows:

category	pizza_category_count
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

QUERIES

Determine the distribution of orders by hour of the day.

SELECT

```
HOUR(order_time),  
COUNT(order_id)
```

FROM

```
orders
```

GROUP BY

```
HOUR(order_time);
```

	HOUR(order_time)	COUNT(order_id)
11		1231
12		2520
13		2455
14		1472
15		1468
16		1920
17		2336
18		2399

QUERIES

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

SELECT

category,

COUNT(name)

FROM

pizza_types

GROUP BY

category;

Result Grid



Filter Row

	category	COUNT(name)
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

QUERIES

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

SELECT

```
ROUND(AVG(quantity), 0) AS Avg_pizzas_order  
FROM  
(SELECT  
    a.order_date,  
    SUM(b.Quantity) AS quantity  
FROM  
    orders AS a  
JOIN  
    order_details AS b ON a.order_id = b.order_id  
GROUP BY  
    a.order_date  
) AS order_quantity;
```

Result Grid

Avg_pizzas_order
138

QUERIES

Determine the top 3 most ordered pizza types based on revenue

```
SELECT
    c.name,
    SUM(a.Quantity * b.price) AS revenue
FROM
    order_details AS a
JOIN
    pizzas AS b ON a.pizza_id = b.pizza_id
JOIN
    pizza_types AS c ON b.pizza_type_id = c.pizza_type_id
GROUP BY
    c.name
ORDER BY
    revenue DESC
LIMIT 3;
```

Result Grid | Filter Rows:

	name	revenue
▶	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5

QUERIES

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

```
SELECT
    revenue_per_pizza_type.category,
    (revenue / total_revenue_all) * 100 AS percentage_revenue
FROM
    (SELECT
        c.category,
        SUM(a.Quantity * b.price) AS revenue,
        (SELECT SUM(a.Quantity * b.price)
        FROM order_details AS a
        JOIN pizzas AS b ON a.pizza_id = b.pizza_id
        ) AS total_revenue_all
    FROM
        order_details AS a
    JOIN
        pizzas AS b ON a.pizza_id = b.pizza_id
    JOIN
        pizza_types AS c ON b.pizza_type_id = c.pizza_type_id
    GROUP BY
        c.category
    ) AS revenue_per_pizza_type
ORDER BY
    percentage_revenue DESC;
```

Result Grid | Filter Rows:

	category	percentage_revenue
▶	Classic	26.905960255669903
	Supreme	25.45631126009884
	Chicken	23.955137556847493
	Veggie	23.682590927384783

QUERIES

Analyze the cumulative revenue generated over time

```
SELECT
    revenue_table.order_date,
    SUM(revenue) OVER (ORDER BY revenue_table.order_date) AS cum_revenue
FROM
    (SELECT
        b.order_date,
        SUM(a.Quantity * c.price) AS revenue
    FROM
        order_details AS a
    JOIN
        orders AS b ON a.order_id = b.order_id
    JOIN
        pizzas AS c ON a.pizza_id = c.pizza_id
    GROUP BY
        b.order_date
    ) AS revenue_table;
```

Result Grid | Filter Rows:

	order_date	cum_revenue
▶	2015-01-01	2713.8500000000004
	2015-01-02	5445.75
	2015-01-03	8108.15
	2015-01-04	9863.6
	2015-01-05	11929.55

QUERIES

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

```
SELECT
    rank_table.category,
    rank_table.name,
    rank_table.revenue,
    rn
FROM
    (SELECT
        revenue_table.category,
        revenue_table.name,
        revenue_table.revenue,
        RANK() OVER (PARTITION BY revenue_table.category ORDER BY revenue_table.revenue DESC) AS rn
    FROM
        (SELECT
            d.name,
            d.category,
            SUM(a.Quantity * c.price) AS revenue
        FROM
            order_details AS a
        JOIN
            orders AS b ON a.order_id = b.order_id
        JOIN
            pizzas AS c ON a.pizza_id = c.pizza_id
        JOIN
            pizza_types AS d ON c.pizza_type_id = d.pizza_type_id
        GROUP BY
            d.name, d.category
        ) AS revenue_table
    ) AS rank_table
WHERE
    rn <= 3;
```

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

A stylized illustration on a red background. In the center, the words "THANK YOU" are written in large, bold, green letters. To the left, a person with dark curly hair is shown from the side, wearing a green shirt and holding a slice of pizza. To the right, another person with glasses and dark hair is shown from the side, wearing a green shirt and holding a piece of food. Above them hangs a red banner with a yellow border. The banner features a large yellow question mark in the center, surrounded by smaller yellow circles with black outlines. The banner is decorated with yellow stars and a yellow sunburst at the bottom. The background has a subtle grid pattern.

THANK YOU