

Pizzahut's sales Report*

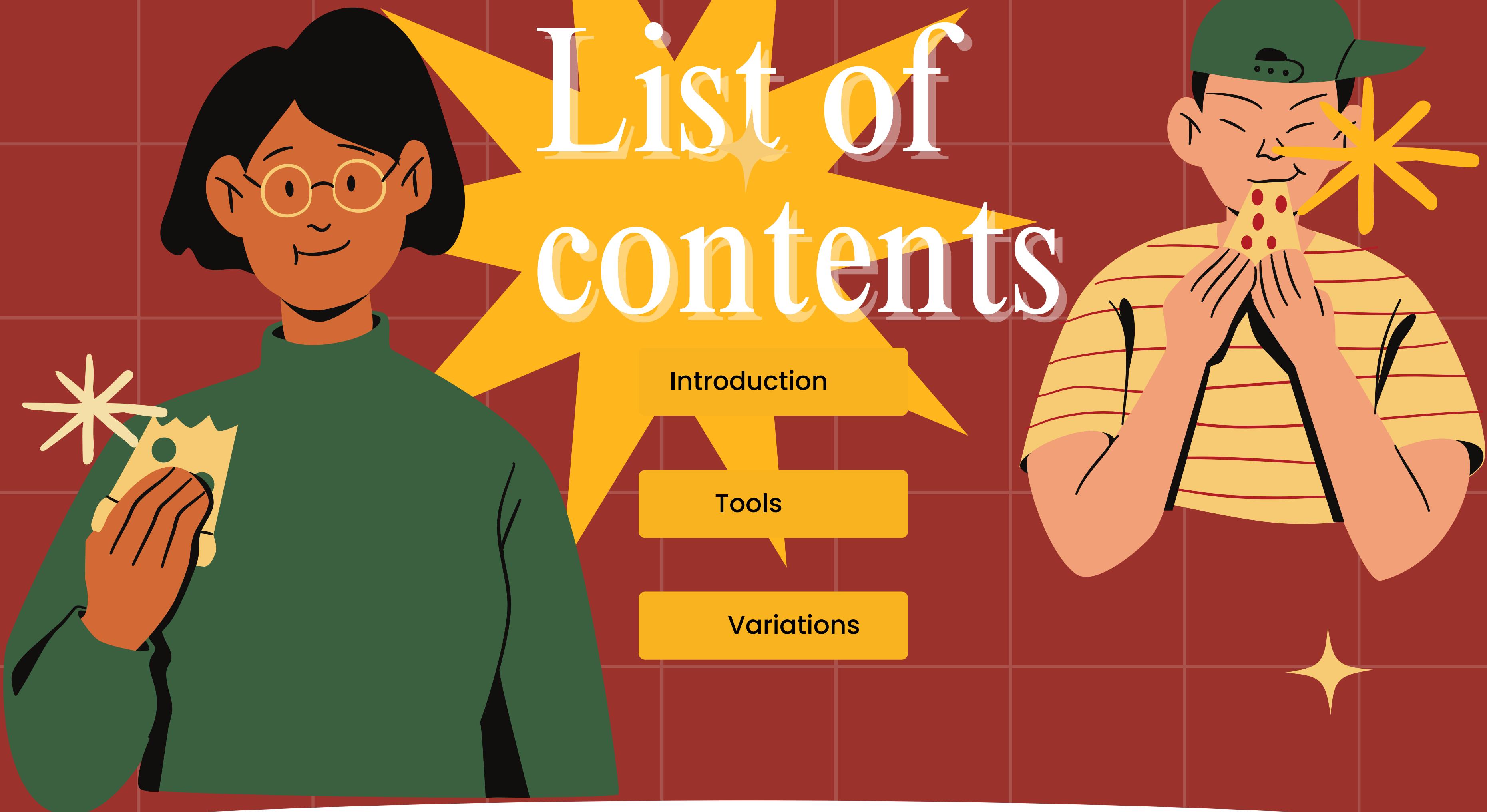


List of contents

Introduction

Tools

Variations



Introduction

Hi My name is Rajiv shaikh I have made a project on SQL .In this project I have made a reports on pizza sales by performing joins, analytical functions,DDL functions and DML functions using MySQL DBMS

Let's make Report on pizza Sales!

Retrieve the total number of orders placed.

```
SELECT  
    COUNT(*)  
FROM  
    orders
```

Result Grid	
	count(*)
▶	21350



Calculate the total revenue generated from pizza sales.

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

Result Grid	
	total_revenue
▶	817860.05

Identify the highest-priced pizza.

```
SELECT PT.name, PZ.price  
FROM pizza_types AS pt  
JOIN pizzas AS pz ON pt.pizza_type_id = pz.pizza_type_id  
ORDER BY pz.price DESC  
LIMIT 1;
```

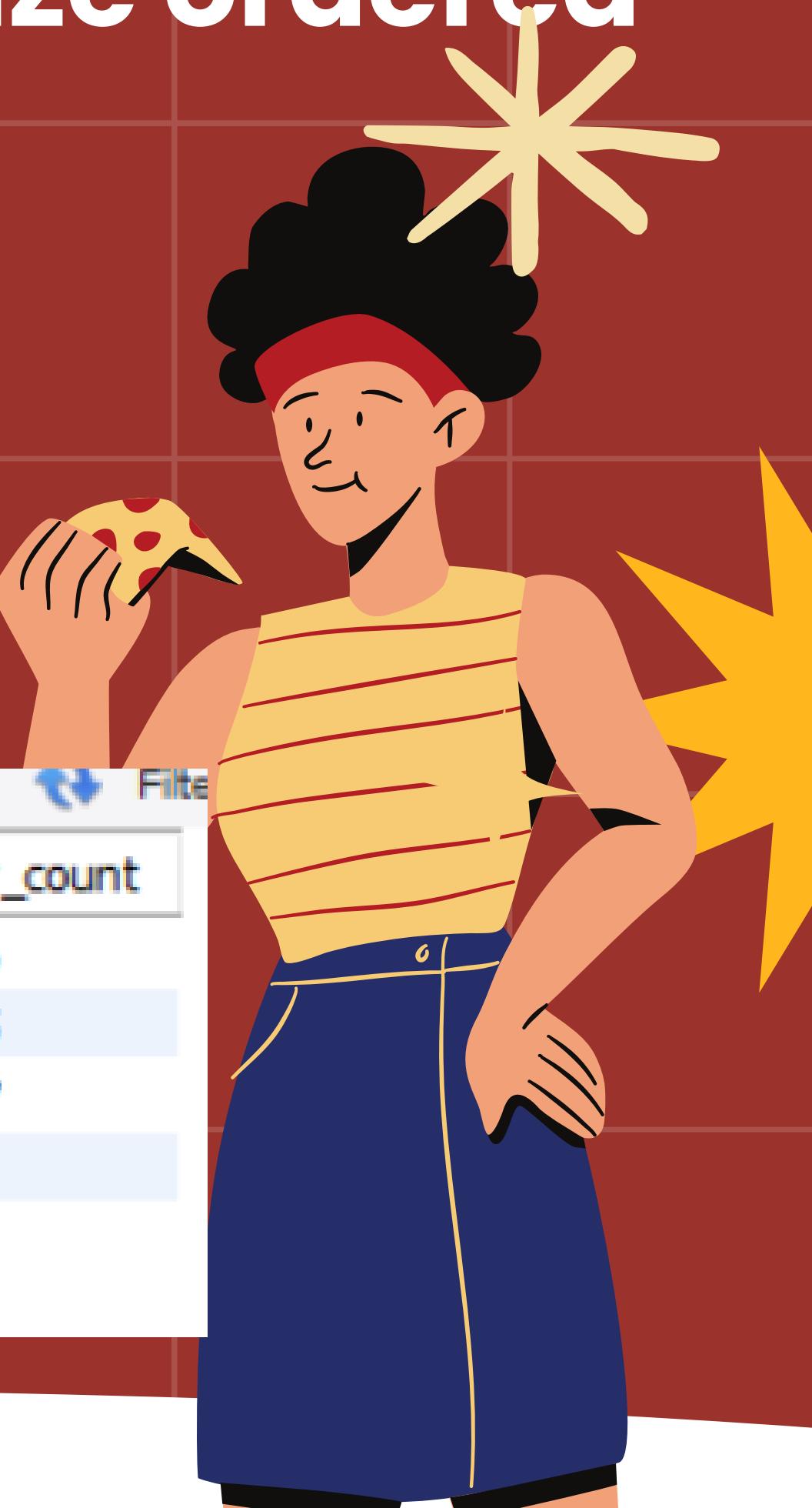
Result Grid | Filter Rows

	name	price
▶	The Greek Pizza	35.95

Identify the most common pizza size ordered

```
SELECT  
    pz.size, COUNT(od.order_details_id) AS order_count  
FROM  
    pizzas AS pz  
        JOIN  
    order_details AS od ON pz.pizza_id = od.pizza_id  
GROUP BY pz.size  
ORDER BY order_count DESC
```

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

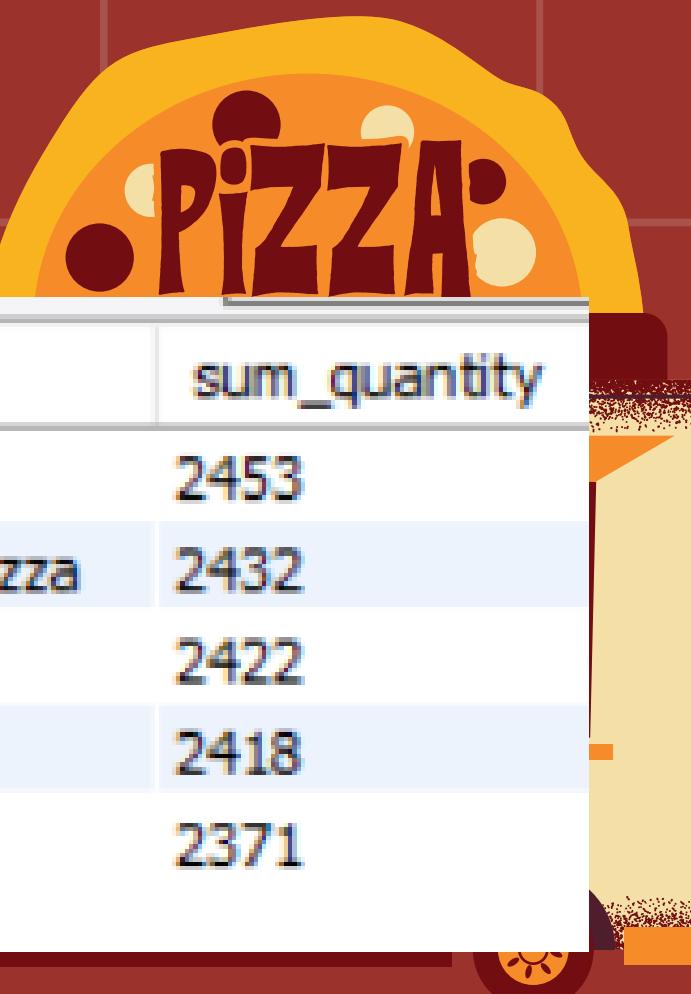
SELECT

```
pt.name, SUM(od.quantity) AS sum_quantity  
FROM  
    order_details AS od  
        JOIN  
    pizzas AS pz ON od.pizza_id = pz.pizza_id  
        JOIN  
    pizza_types AS pt ON pt.pizza_type_id = pz.pizza_type_id
```

GROUP BY pt.name

ORDER BY sum_quantity DESC

LIMIT 5;



	name	sum_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
    pt.category, SUM(od.quantity) AS total_quantity
FROM
    pizza_types AS pt
        JOIN
    pizzas AS pz ON pt.pizza_type_id = pz.pizza_type_id
        JOIN
    order_details AS od ON od.pizza_id = pz.pizza_id
GROUP BY pt.category
ORDER BY total_quantity DESC;
```

	category	total_quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

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
	19	2009
	20	1642
	21	1198
	22	663
	23	28
	10	8
	9	1

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

SELECT

```
category, COUNT(pizza_type_id) AS pizzatype_id
```

FROM

```
pizza_types
```

```
GROUP BY category
```

```
ORDER BY pizzatype_id DESC;
```

	category	pizzatype_id
▶	Supreme	9
	Veggie	9
	Classic	8
	Chicken	6

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

```
SELECT  
    ROUND(AVG(Total_quantity), 2)  
FROM  
    (SELECT  
        o.order_date, SUM(od.quantity) AS Total_quantity  
    FROM  
        order_details AS od  
    JOIN orders AS o ON od.order_id = o.order_id  
    GROUP BY o.order_date) AS t1
```

	round(avg(Total_quantity),2)
▶	138.47

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

```
SELECT  
    pt.name, SUM(od.quantity * pz.price) AS pizza_revenue  
FROM  
    order_details AS od  
        JOIN  
    pizzas AS pz ON od.pizza_id = pz.pizza_id  
        JOIN  
    pizza_types AS pt ON pt.pizza_type_id = pz.pizza_type_id  
GROUP BY pt.name  
ORDER BY pizza_revenue DESC  
LIMIT 3;
```

	name	pizza_revenue
▶	The Thai Chicken Pizza	43434.25
	The Barbeque Chicken Pizza	42768
	The California Chicken Pizza	41409.5

Calculate the percentage contribution of each pizza type to total revenue

```
with a as(
select sum(od.quantity * pz.price) from order_details as od join pizzas as pz
on od.pizza_id=pz.pizza_id)

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

	category	revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

Analyze the cumulative revenue generated over time.

```
select
    order_date,revenue,round(sum(revenue)over(order by order_date),2) as cum_revenue
from(
    select o.order_date,round(sum(od.quantity*pz.price),2) as revenue
    from
        orders as o join order_details as od
        on o.order_id=od.order_id
        join pizzas as pz
        on pz.pizza_id=od.pizza_id
    group by o.order_date) as t1
```

order_date	revenue	cum_revenue
2015-01-01	2713.85	2713.85
2015-01-02	2731.9	5445.75
2015-01-03	2662.4	8108.15
2015-01-04	1755.45	9863.6
2015-01-05	2065.95	11929.55
2015-01-06	2428.95	14358.5
2015-01-07	2202.2	16560.7
2015-01-08	2838.35	19399.05
2015-01-09	2127.35	21526.4
2015-01-10	2463.95	23990.35
2015-01-11	1872.3	25862.65
2015-01-12	1919.05	27781.7
2015-01-13	2049.6	29831.3
2015-01-14	2527.4	32358.7

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

```
select name,category,revenue from(
select * ,dense_rank() over (partition by category order by revenue desc) as d_rn from(
SELECT
    pt.name,
    pt.category,
    ROUND(SUM(od.quantity * pz.price), 2) AS revenue
FROM
    pizza_types AS pt
        JOIN
    pizzas AS pz ON pt.pizza_type_id = pz.pizza_type_id
        JOIN
    order_details AS od ON od.pizza_id = pz.pizza_id
GROUP BY pt.category , pt.name) as t1) as t2
where d_rn <=3
;
```

name	category	revenue
The Thai Chicken Pizza	Chicken	43434.25
The Barbecue Chicken Pizza	Chicken	42768
The California Chicken Pizza	Chicken	41409.5
The Classic Deluxe Pizza	Classic	38180.5
The Hawaiian Pizza	Classic	32273.25
The Pepperoni Pizza	Classic	30161.75
The Spicy Italian Pizza	Supreme	34831.25
The Italian Supreme Pizza	Supreme	33476.75
The Sicilian Pizza	Supreme	30940.5
The Four Cheese Pizza	Veggie	32265.7
The Mexicana Pizza	Veggie	26780.75
The Five Cheese Pizza	Veggie	26066.5

A festive illustration set against a red background with a white grid. In the center, the words "Thank You" are written in a large, white, serif font. Below them, the text "For watching the Reports" is also in a white serif font. The scene includes two cartoon characters: a man on the left with curly black hair, wearing a green shirt and holding a slice of pizza, and a man on the right with dark hair and glasses, wearing a green shirt and holding a piece of paper. A reindeer with antlers decorated with gold coins and a bell hangs above them. The background is adorned with yellow stars and a large yellow sunburst at the bottom.

Thank You

For watching the Reports