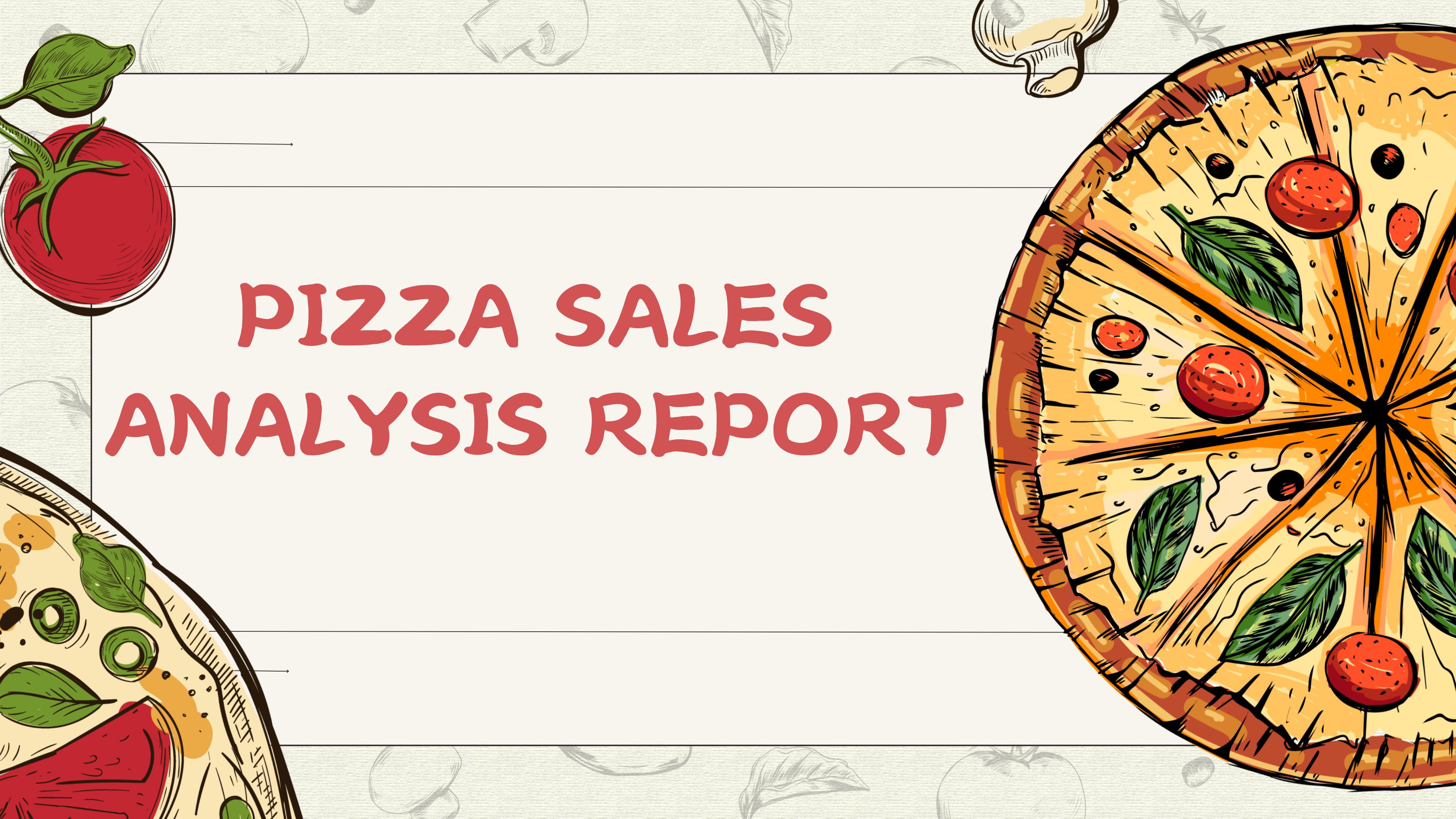
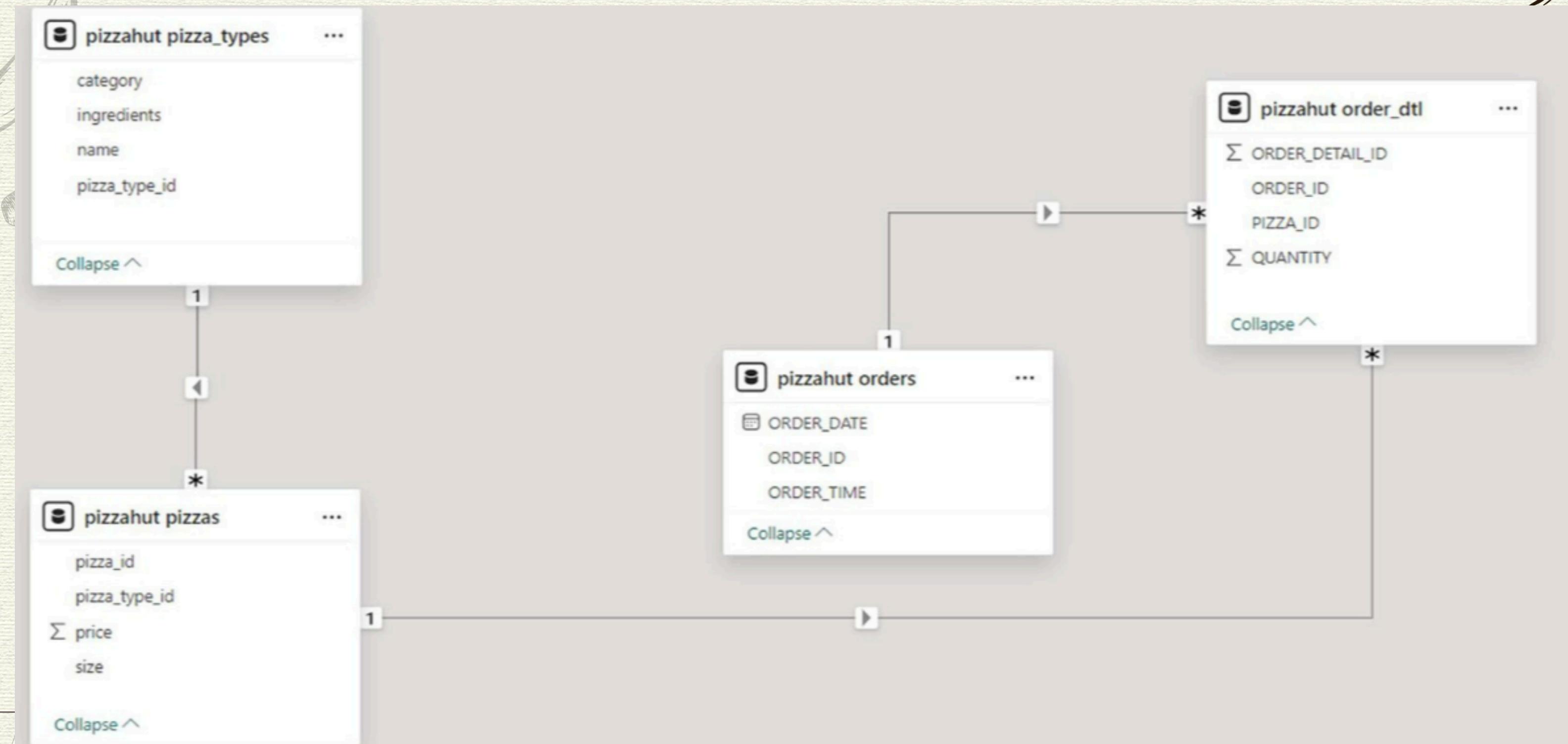


PIZZA SALES ANALYSIS REPORT



ER DIAGRAM



AGENDA

BASIC FINDING	5 QUERIES
INTERMEDIATE FINDING	5 QUERIES
ADVANCED FINDING	2 QUERIES



BASIC FINDING

1. Retrieve the total number of orders placed.

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

Output:-

	total_orders
▶	21350

2. Calculate the total revenue generated from pizza sales.

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

Output:-

	total_revenue
▶	817860.049999993

3. 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;
```

Output:-

	name	price
▶	The Greek Pizza	35.95

4. 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;
```

Output:-

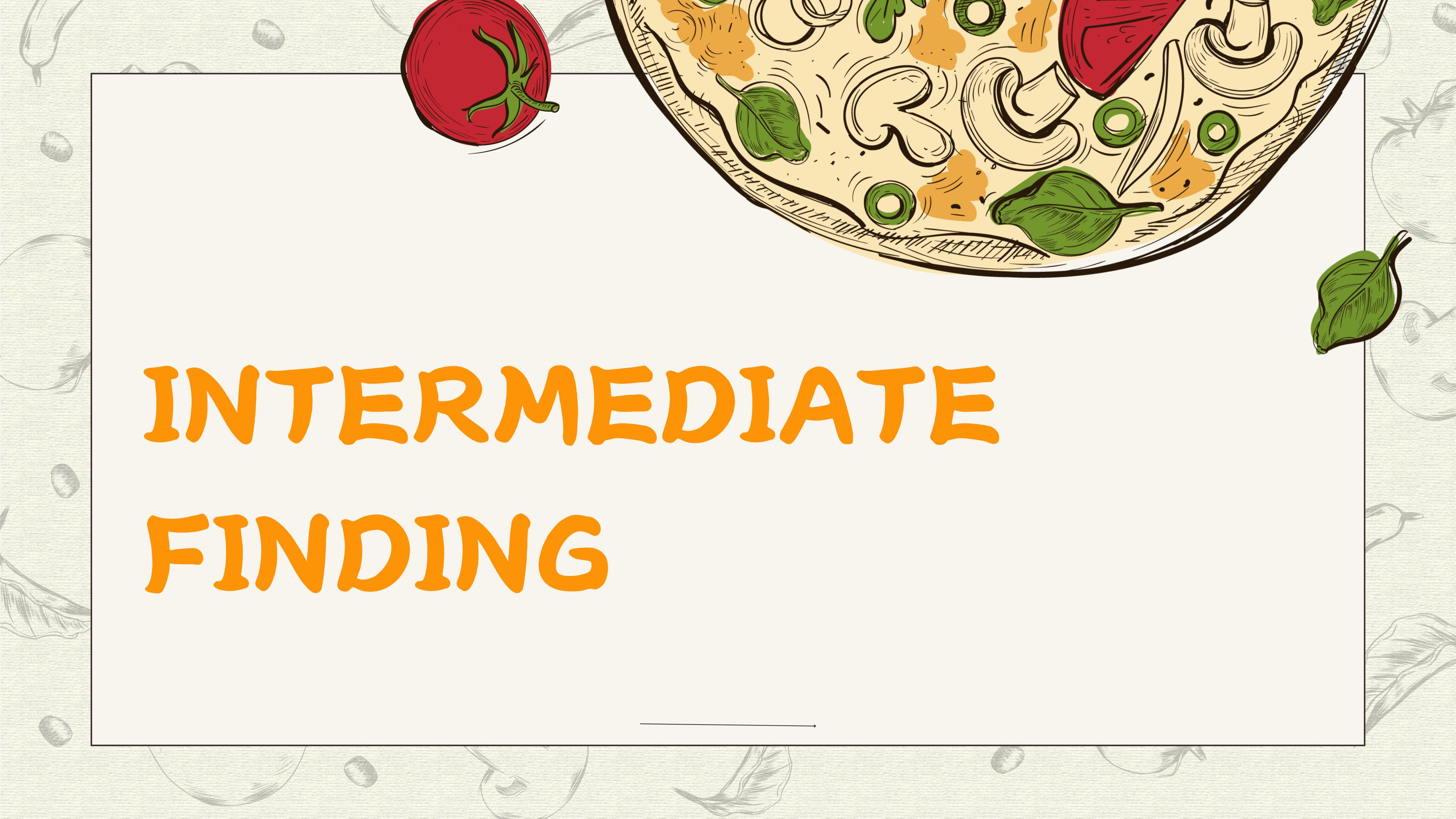
	size	order_count
▶	L	18526
	M	15385
	S	14137
	XL	544
	XXL	28

5. 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;
```

Output:-

	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



INTERMEDIATE FINDING

1. 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;
```

Output:-

	category	quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

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

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

Output:-

	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

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

SELECT

category, COUNT(name)

FROM

pizza_types

GROUP BY category;

Output:-

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

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

- **SELECT**
 AVG(quantity) as avg_pizza_ordered_per_day
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;

Output:-

	avg_pizza_ordered_per_day
▶	138.4749

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

```
SELECT  
    pizza_types.name,  
    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;
```

Output:-

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



ADVANCED FINDING

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

```
• SELECT
    pizza_types.category,
    ROUND(SUM(order_details.quantity * pizzas.price) / (SELECT
        ROUND(SUM(order_details.quantity * pizzas.price),
        2) AS total_sales
    )
    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;
```

Output:-

	category	revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

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

- ```
select name, revenue,
rank() over(partition by category order by revenue desc) as pizza_rank
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;
```

Output:-

|   | name                         | revenue          | pizza_rank |
|---|------------------------------|------------------|------------|
| ▶ | The Thai Chicken Pizza       | 43434.25         | 1          |
|   | The Barbecue Chicken Pizza   | 42768            | 2          |
|   | The California Chicken Pizza | 41409.5          | 3          |
|   | The Classic Deluxe Pizza     | 38180.5          | 1          |
|   | The Hawaiian Pizza           | 32273.25         | 2          |
|   | The Pepperoni Pizza          | 30161.75         | 3          |
|   | The Spicy Italian Pizza      | 34831.25         | 1          |
|   | The Italian Supreme Pizza    | 33476.75         | 2          |
|   | The Sicilian Pizza           | 30940.5          | 3          |
|   | The Four Cheese Pizza        | 32265.7000000065 | 1          |
|   | The Mexicana Pizza           | 26780.75         | 2          |
|   | The Five Cheese Pizza        | 26066.5          | 3          |



**THANK YOU**