



### **Data Schema Overview**

The dataset has 4 tables.

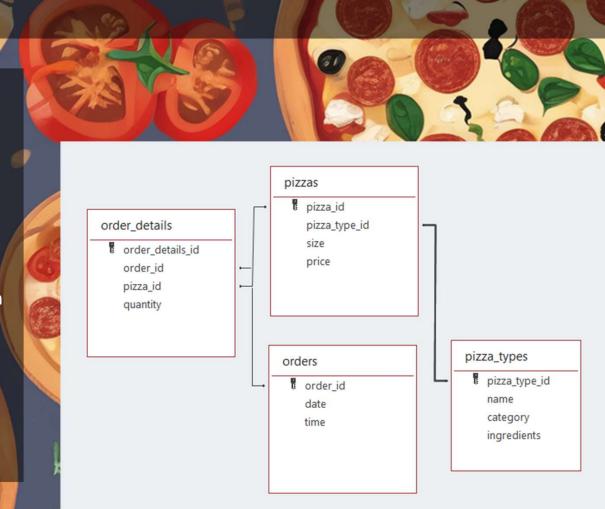
- 1. Pizzas
- Contains details about pizza size and price
- 2. pizza\_types
- Contains details about pizza type name, pizza category and pizza's ingredients

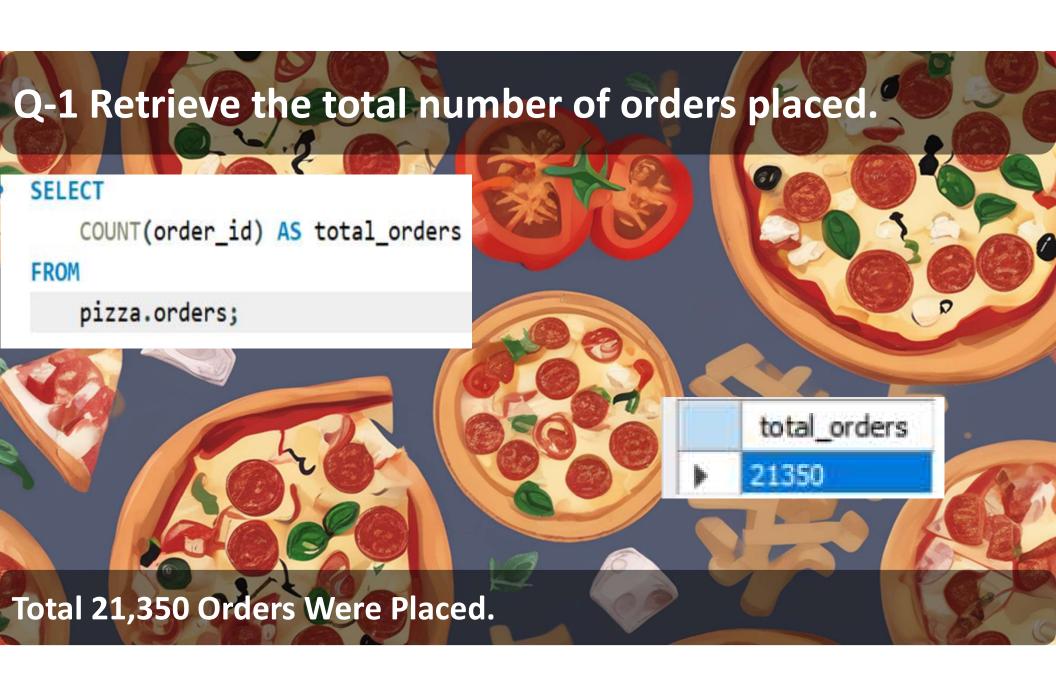
#### 3.Orders

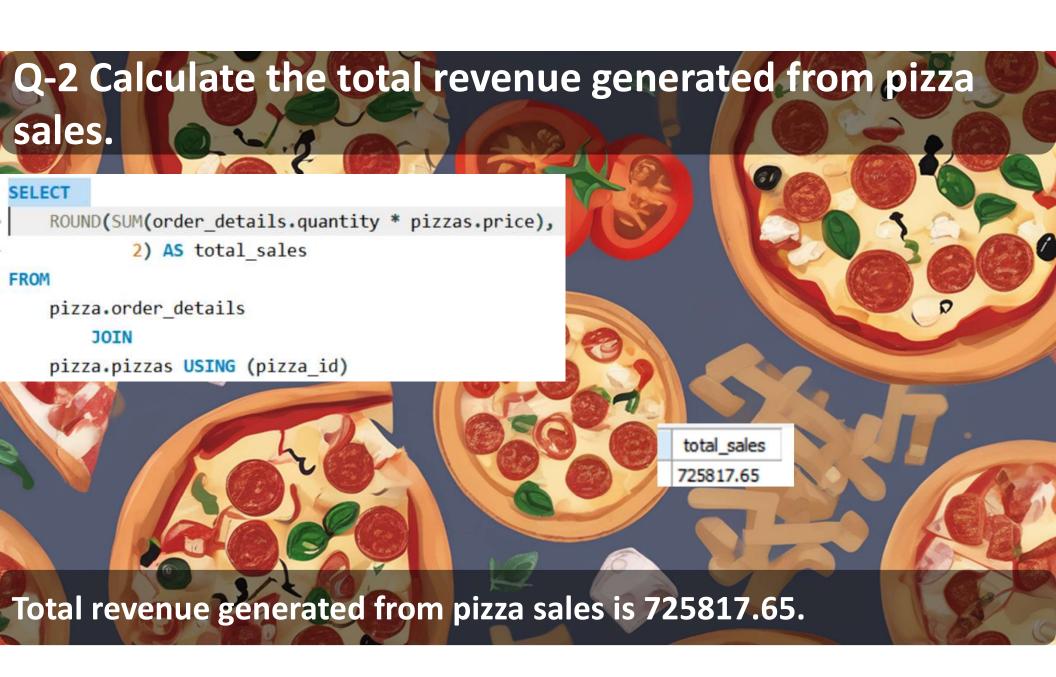
 Contains ordered date and time information from 01/01/2015 – 31/12/2015

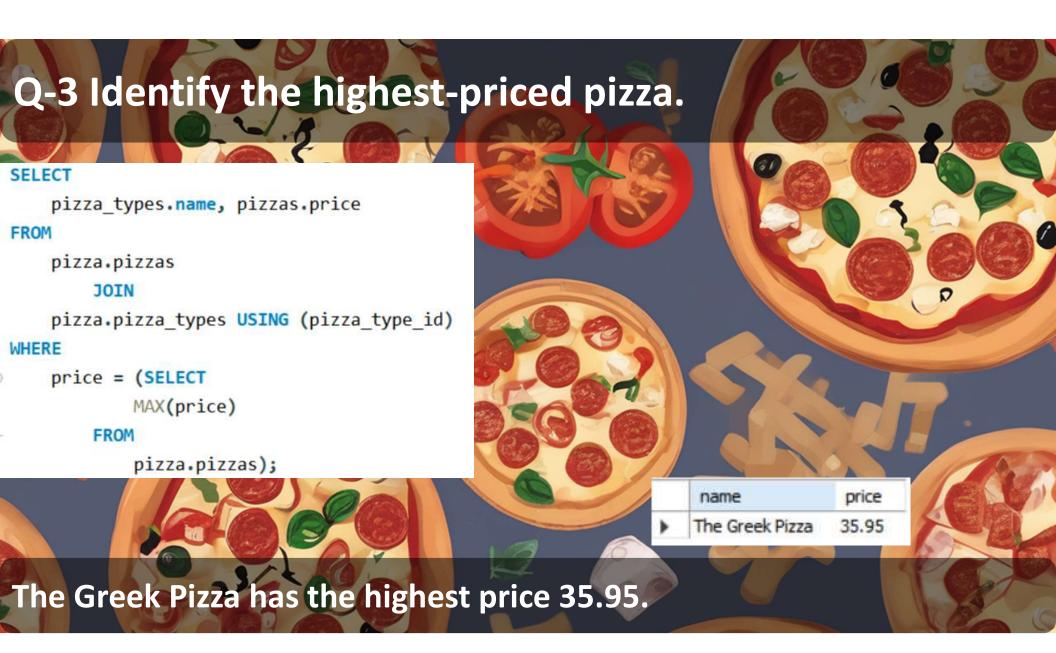
#### 4.order details

Contains information about ordered pizza quantity











```
pizzas.size, COUNT(order_details.order_details_id) AS order_count

FROM

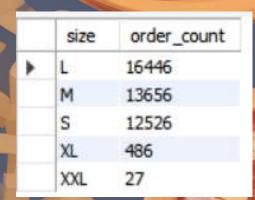
pizza.pizzas

JOIN

pizza.order_details USING (pizza_id)

GROUP BY size

ORDER BY order_count DESC;
```



The most common pizza size is Large with Order count of 16446.

Q-5 List the top 5 most ordered pizza types along with

their quantities.

```
pizza_types.name,
sum((order_details.quantity)) AS quantity_sum
FROM

pizza.pizzas
JOIN

pizza.pizza_types USING (pizza_type_id)
JOIN

pizza.order_details USING (pizza_id)

GROUP BY pizza_types.name

ORDER BY quantity_sum DESC

LIMIT 5;
```



Top 5 most ordered pizza types are shown in above table with their ordered quantity.

Q-6 Join the necessary tables to find the total quantity

of each pizza category ordered.

```
pizza_types.category, SUM(order_details.quantity) AS total

FROM

pizza.pizza_types

JOIN

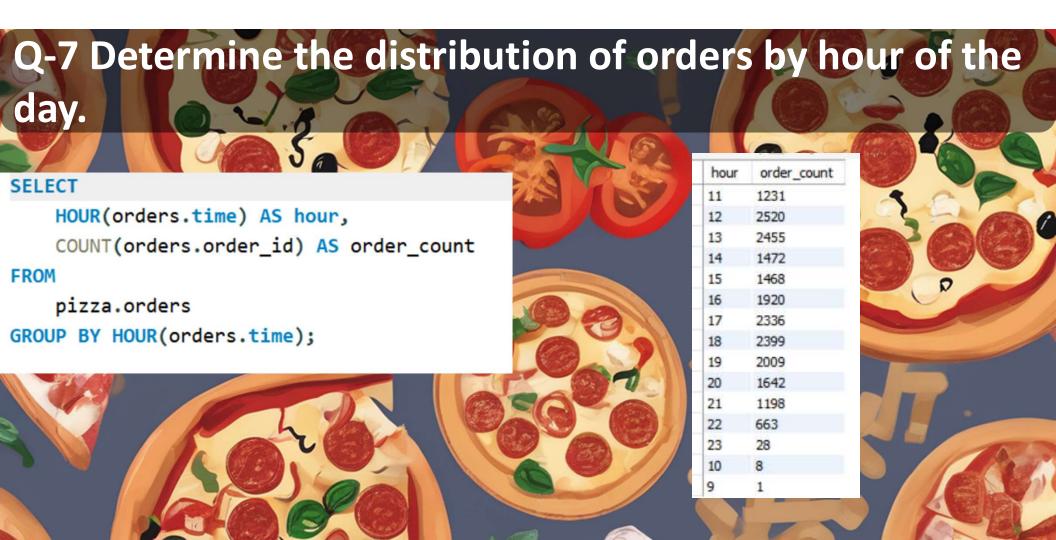
pizza.pizzas USING (pizza_type_id)

JOIN

pizza.order_details USING (pizza_id)

GROUP BY pizza_types.category;
```

Each pizza category are shown in above table with their ordered quantity.



We can see that hours 12,13 and 16-20 were the bussiest hours.



#### SELECT

pizza\_types.category, COUNT(pizza\_types.pizza\_type\_id)

### FROM

pizza.pizza\_types

GROUP BY pizza\_types.category;

category	count(pizza_types.pizza_type_id)
Chicken	6
Classic	8
Supreme	9
Veggie	9
1.	

Supreme and Veggie category has most no of different pizzas.

Q-9 Group the orders by date and calculate the average number of pizzas ordered per day.

SELECT
ROUND(AVG(quantity), 0) AS avg\_pizza\_per\_day
FROM

```
(SELECT
    orders.date, SUM(order_details.quantity) AS quantity
FROM
    pizza.order_details
JOIN pizza.orders USING (order_id)
GROUP BY orders.date) AS order_quantity;
```

avg\_pizza\_per\_day 138

Average 138 no of pizzas ordered per day.

# Q-10 Determine the top 3 most ordered pizza types based on revenue.

SELECT

name	total_sales
The Barbecue Chicken Pizza	38156.25
The Thai Chicken Pizza	38126.25
The California Chicken Pizza	36574.5

Top 3 most ordered pizza types with most revenue are shown in above table.

Q-11 Calculate the percentage contribution of each pizza type to total revenue.

```
pizza_types.category,

ROUND(SUM(order_details.quantity * pizzas.price) / (SELECT

SUM(order_details.quantity * pizzas.price)

FROM

pizza.pizzas

JOIN

pizza.order_details USING (pizza_id)) * 100,

2) AS revenue

FROM

pizza.pizza_types

JOIN

pizza.pizzas USING (pizza_type_id)

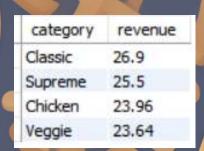
JOIN

pizza.order_details USING (pizza_id)

GROUP BY pizza_types.category

ORDER BY revenue DESC;
```

SELECT



The percentage wise contribution of each pizza type to total revenue are shown in above table.

## Q-12 Analyze the cumulative revenue generated over

time.

```
select date,round(sum(revenue) over (order by date),2) as cum_revenue
from
(select orders date sum(order datails quantity*nizzas nnice) as nevenue
```

(select orders.date,sum(order\_details.quantity\*pizzas.price) as revenue

from pizza.pizzas

join pizza.order\_details using (pizza\_id)

join pizza.orders using (order\_id)

group by orders.date) as sales;

	1 1 1 1 1 1 1 1 1	2
	date	cum_revenue
	2015-01-01	2713.85
Š	2015-01-02	5445.75
	2015-01-03	8108.15
	2015-01-04	9863.6
	2015-01-05	11929.55
	2015-01-06	14358.5
Ę	2015-01-07	16560.7
	2015-01-08	19399.05
	2015-01-09	21526.4
	2015-01-10	23990.35
	2015-01-11	25862.65
	2015-01-12	27781.7
ı	2015-01-13	29831.3
	2015-01-14	32358.7
	2015-01-15	34343.5
d	2015-01-16	36937.65
1	2015-01-17	39001.75
A	2015-01-18	40978.6
	2015-01-19	43365.75
		AND DESCRIPTION OF THE PERSON NAMED IN

The cumulative revenue generated over time are shown in above tabel.

# Q-13 Determine the top 3 most ordered pizza types based on revenue for each pizza category.

```
(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.pizza_types
join pizza.pizzas using (pizza_type_id)
join pizza.order_details using (pizza_id)
group by pizza_types.category,pizza_types.name) as a) as b
where rn<=3;</pre>
```

select category, name, round (revenue, 2) as revenue



Top 3 most ordered pizza types based on revenue for each pizza category are shown in above table.

