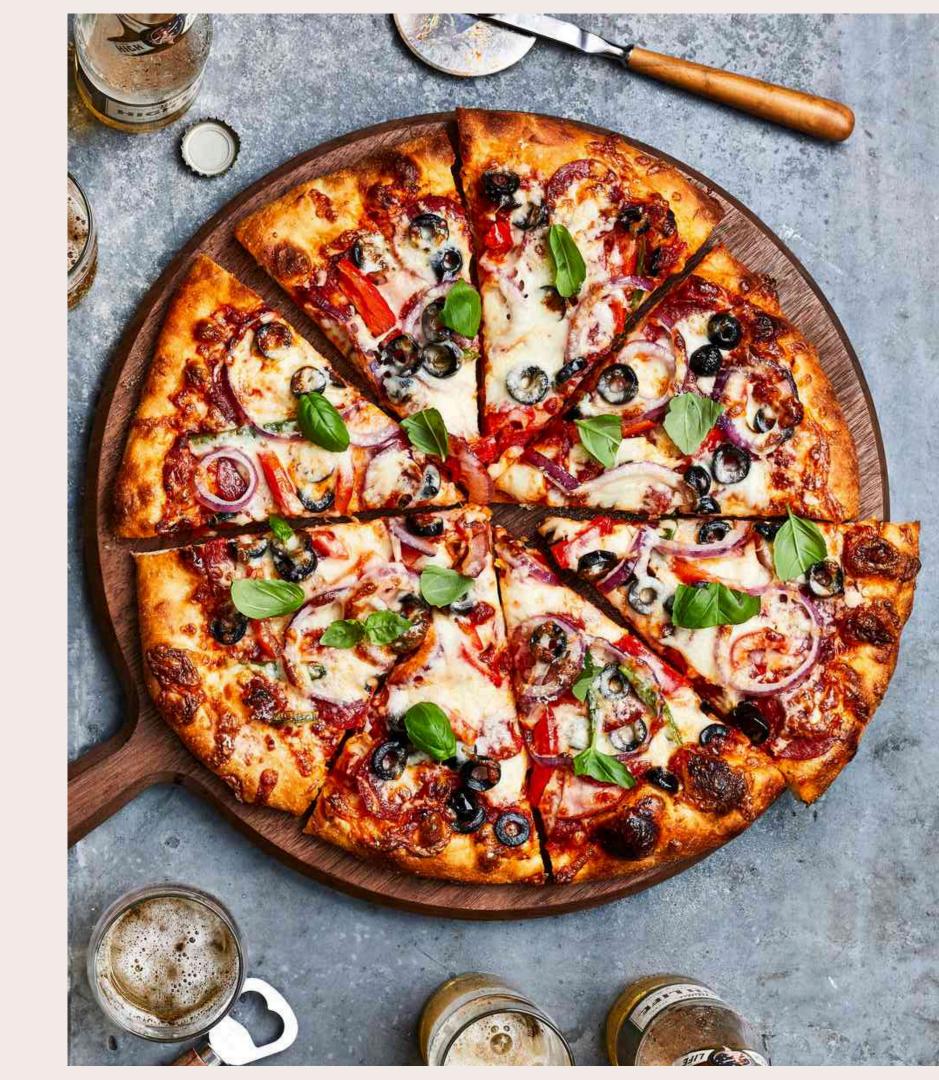
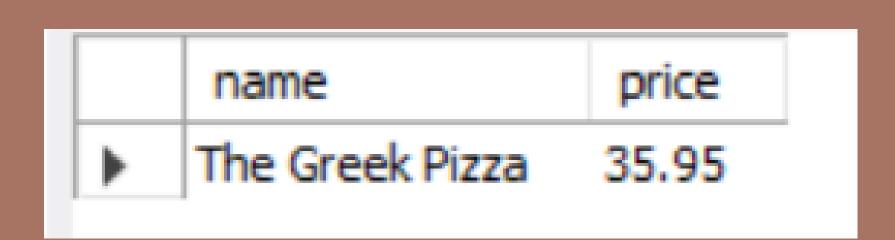
Pizza Sales Analysis

-SQL



-- Identify the highest price pizza.

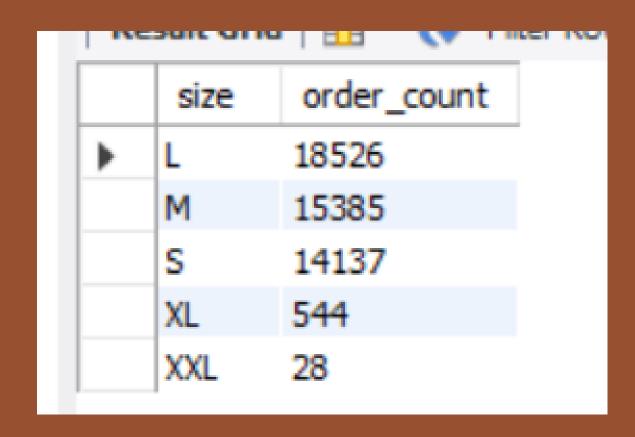
Coading Result



-- identify the most common pizza size order

Coading

```
Result
```



list the top 5 most order pizza types along with the quantity.

Coading

```
SELECT
    pizza_types.name, SUM(order_details.quantuty) 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 ordeer.

Coading

```
SELECT
    pizza_types.category,
    SUM(order_details.quantuty) AS quantity
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizza_types.category
ORDER BY quantity desc;
```

'		
	category	quantity
>	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

determine the distribution of orders by hours of the day.

Coading

```
SELECT

HOUR(order_time) as hours, COUNT(order_id) as order_count

FROM

orders

GROUP BY HOUR(order_time);
```

	hours	order_count
•	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336
	18	2399
	19	2009
	20	1642
	21	1198
	22	663

join relevant tables to find the categorywise dristribution of pizzas.

Coading

Result

select category, count(name) from pizza_types
group by category;

	category	count(name)
•	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

group the orders by date and calculate the average no. of pizza order per day.

Coading

```
select round(avg(quantity),0) from
(select orders.order_date, sum(order_details.quantuty) as quantity
from orders join order_details
on orders.order_id = order_details.order_id
group by orders.order_date) as order_quantity;
```

	round(avg(quantity),0)
•	138

determine the top 3 most ordered pizza based on revenue.

Coading

```
select pizza_types.name, sum(order_details.quantuty * 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.name order by revenue desc limit 3;
```

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

jcalculate the % contribution of each pizza type to total revenue.

Coading

```
SELECT
    pizza_types.category,
    ROUND(SUM(pizzas.price * order details.quantuty) / (SELECT
                    ROUND(SUM(pizzas.price * order_details.quantuty),
                                2) AS total_sales
                FROM
                    pizzas
                        JOIN
                    order_details ON pizzas.pizza_id = order_details.pizza_id) * 100,
            0) AS revenue
FROM
    pizzas
        JOIN
    pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
        JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizza types.category
ORDER BY revenue DESC;
```

	category	revenue
•	Classic	27
	Supreme	25
	Veggie	24
	Chicken	24

Analyze the cumulative revenue generated over time.

Coading

```
Result
```

```
select order_date,
sum(revenue) over (order by order_date)
as cum_revenue from
(select orders.order_date,
    sum(pizzas.price * order_details.quantuty) as revenue
from pizzas join order_details
on pizzas.pizza_id = order_details.pizza_id
join orders
on orders.order_id = order_details.order_id
group by orders.order date) as sales;
```

	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

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

Coading Result

```
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(pizzas.price * order details.quantuty) as revenue
from pizzas join pizza_types
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.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	