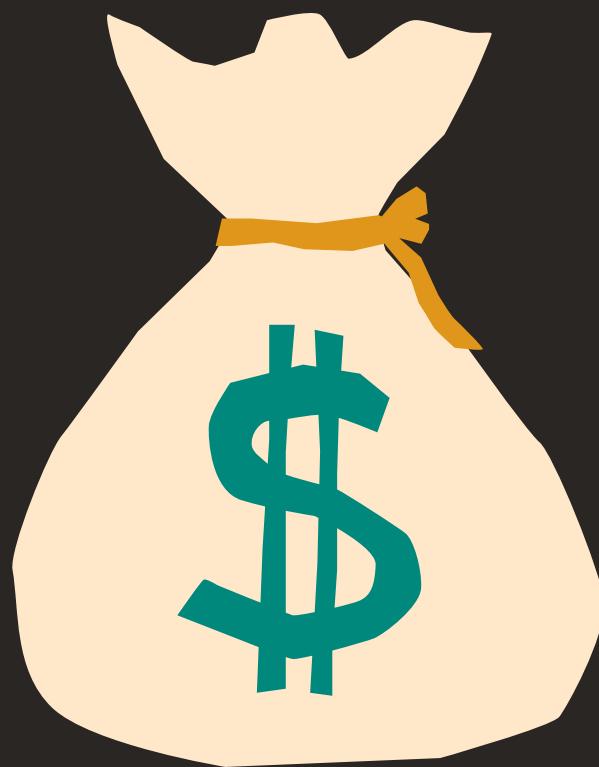


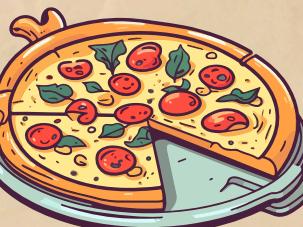
A photograph of a pizza on a round wooden board. The pizza is cut into eight slices and topped with melted cheese, ham, and small red pepper pieces. A blue and white striped napkin is visible in the top left corner.

PizzaHut Sales Analysis using SQL

By -
Atharva Patkar

Hello,I am Atharva Patkar. In this project,I have analyzed the **PizzaHut Sales using some SQL** questions related to the data.So,we can see the queries and their respective results in further slides of presentation

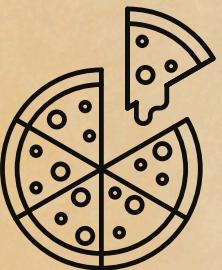


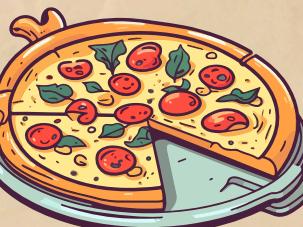


Retrieve the total number of orders placed.

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

Result Grid	
	totalorders
▶	21350

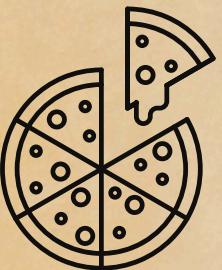


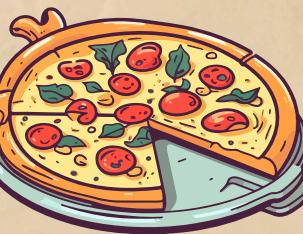


Calculate the total revenue generated from pizza sales

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

Result Grid	
	total_sales
▶	817860.05



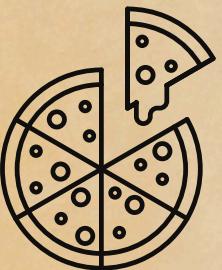


Identify the highest-priced pizza.

```
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;
```

Result Grid | Filter Row

	name	price
▶	The Greek Pizza	35.95

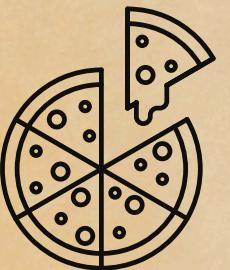




Identify the most common pizza size ordered.

```
SELECT
    pizzas.size, COUNT(order_details.quantity) AS count
FROM
    pizzas
        JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizzas.size
ORDER BY count DESC
LIMIT 1;
```

Result Grid		
	size	count
▶	L	18526

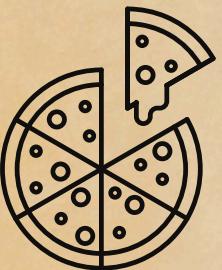


List the top 5 most ordered pizza types along with their quantities.

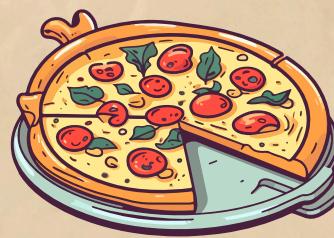


```
SELECT
    pizza_types.name, SUM(order_details.quantity) AS total
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY total DESC
LIMIT 5;
```

Result Grid		Filter Rows:
	name	total
▶	The Classic Deluxe Pizza	2453
	The Barbecue Chicken Pizza	2432
	The Hawaiian Pizza	2422
	The Pepperoni Pizza	2418
	The Thai Chicken Pizza	2371

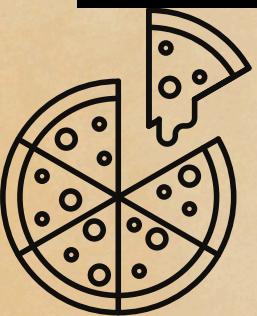


Join the necessary tables to find the total quantity of each pizza category ordered.



```
SELECT
    pizza_types.category, COUNT(order_details.quantity) AS Quant
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 Quant DESC;
```

Result Grid		
	category	Quant
▶	Classic	14579
	Supreme	11777
	Veggie	11449
	Chicken	10815



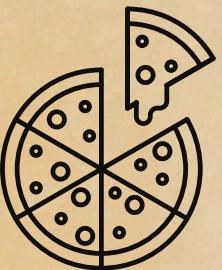
Determine the distribution of orders by hour of the day.



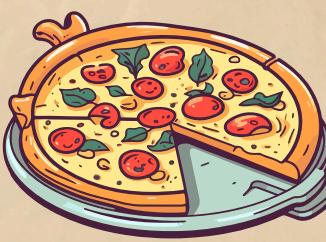
```
SELECT  
    HOUR(order_time) as Hours_of_day, COUNT(order_id) as orders  
FROM  
    orders  
GROUP BY HOUR(order_time)  
order by HOUR(order_time);
```

Result Grid |   Filter F

Hours_of_day	orders
9	1
10	8
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



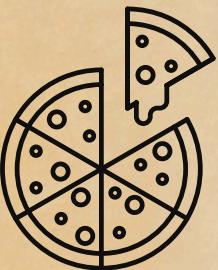
Join relevant tables to find the category-wise distribution of pizzas.



```
SELECT  
    pizza_types.category AS category,  
    COUNT(pizza_types.pizza_type_id) AS types  
FROM  
    pizza_types  
GROUP BY pizza_types.category;
```

Result Grid

	category	types
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

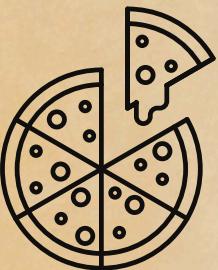


Group the orders by date and calculate the average number of pizzas ordered per day.

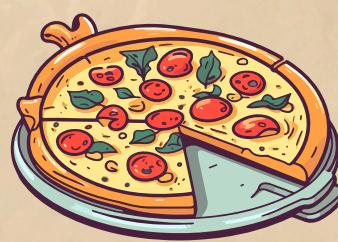


```
SELECT  
    AVG(quantity) AS pizzas_ordered_per_day  
FROM  
    (SELECT  
        orders.order_date, SUM(order_details.quantity) AS quantity  
    FROM  
        orders  
    JOIN order_details ON orders.order_id = order_details.order_id  
    GROUP BY orders.order_date) AS order_data;
```

	pizzas_ordered_per_day
	138.4749

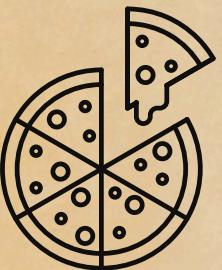


Determine the top 3 most ordered pizza types based on revenue.



```
SELECT
    pizza_types.name,
    SUM(order_details.quantity * pizzas.price) AS revenue
FROM
    pizza_types
        JOIN
    pizzas ON 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

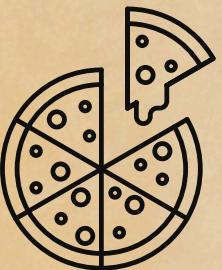


Analyze the cumulative revenue generated over time.



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

	order_date	Cumulative_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
	2015-01-06	14358.5
	2015-01-07	16560.7
	2015-01-08	19399.05
	2015-01-09	21526.4
	2015-01-10	23990.350000000002
	2015-01-11	25862.65
	2015-01-12	27781.7

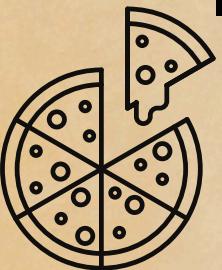


DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY.



```
select name,category ,revenue
from
(select name,category,revenue,
rank() over(partition by category order by revenue desc) as Ranked
from
(SELECT pizza_types.name,pizza_types.category,
SUM(order_details.quantity * pizzas.price) AS revenue
FROM order_details
JOIN pizzas
ON order_details.pizza_id = pizzas.pizza_id
JOIN pizza_types
ON pizza_types.pizza_type_id = pizzas.pizza_type_id
GROUP BY pizza_types.name,pizza_types.category
order by revenue desc )
as a)
as b
where ranked <4;
```

	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	32265.7000000065
	The Mexicana Pizza	Veggie	26780.75
	The Five Cheese Pizza	Veggie	26066.5



Thank You

