**SQL Queries :**

create table order\_details (order\_details\_id int not null, order\_id int not null, pizza\_id text not null,

quantity int not null, primary key(order\_details\_id) );

select \* from pizzahut.pizzas;

select \* from pizzahut.pizza\_types;

select \* from pizzahut.order\_details;

**BASIC**

**1. Retrieve the total number of orders placed.**

select count(order\_id) as total\_orders from orders;



**2. 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 pizzas.pizza\_id = order\_details.pizza\_id;



**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;



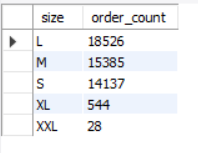
**4. Identify the most common pizza size ordered.**

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 ;



**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

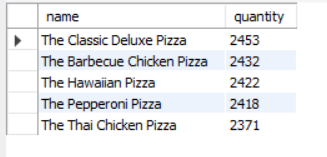
on pizza\_types.pizza\_type\_id=pizzas.pizza\_type\_id

join order\_details

on order\_details.pizza\_id=pizzas.pizza\_id

Group by pizza\_types.name

order by quantity desc limit 5;



**Intermediate:**

**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

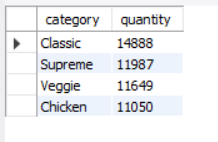
from pizza\_types join pizzas

on pizza\_types.pizza\_type\_id = pizzas.pizza\_type\_id

join order\_details

on order\_details.pizza\_id =pizzas.pizza\_id

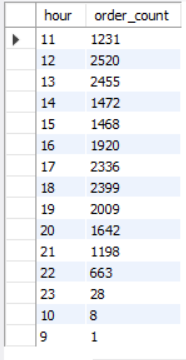
Group by pizza\_types.category order by quantity desc;



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

Select hour(order\_time) As hour,count(order\_id )As order\_count from orders

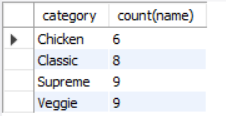
Group by hour(order\_time);



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

Select category , count(name) from pizza\_types

group by category;



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

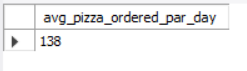
Select round(avg(quantity),0) as avg\_pizza\_ordered\_par\_day from

(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



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

Select pizza\_types.name,

sum(order\_details.quantity \* pizzas.price) As revenue

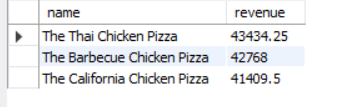
from pizza\_types join pizzas

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;



**Advanced:**

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

SELECT

pizza\_types.category,

(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

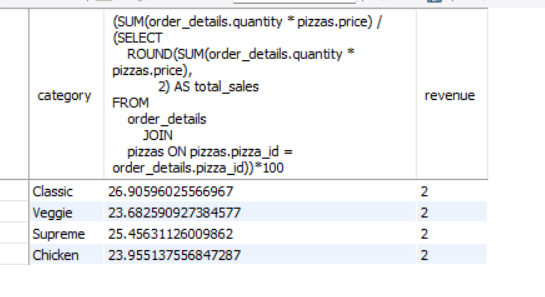
order\_details ON order\_details.pizza\_id = pizzas.pizza\_id

GROUP BY

pizza\_types.category

ORDER BY

revenue DESC;



**2. Analyze the cumulative revenue generated over time.**

select order\_date,

sum(revenue) over(order by order\_date) as cum\_revenue

from

(Select orders.order\_date,

sum( order\_details.quantity \* pizzas.price) as revenue

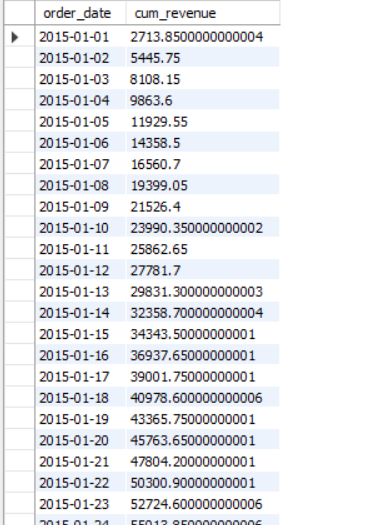
from order\_details join pizzas

on order\_details.pizza\_id = pizzas.pizza\_id

join orders

on orders.order\_id = order\_details.order\_id

group by orders.order\_date) as sales;



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

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(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;

