**Basic:**

Q1 - Retrieve the total number of orders placed.

SELECT count(order\_id) as Total\_num\_order From orders

Q2 - Calculate the total revenue generated from pizza sales.

SELECT

ROUND(SUM(pizzas.price \* order\_details.quantity)) AS Total\_Revenue

FROM

order\_details

JOIN

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

Q3 - Identify the highest-priced pizza.

SELECT pizza\_type.name, pizzas.price as highest\_price\_pizza

from pizza\_type

JOIN pizzas

ON pizzas.pizza\_type\_id = pizza\_type.pizza\_type\_id

order by pizzas.price DESC

limit 2

Q4 - 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

Q5 - List the top 5 most ordered pizza types along with their quantities.

select pizza\_type.name , sum(order\_details.quantity) as quantity

from pizza\_type

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

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

group by pizza\_type.name

order by quantity DESC

limit 5

**Intermediate:**

Q6 - Join the necessary tables to find the total quantity of each pizza category ordered.

select pizza\_type.category , sum(order\_details.quantity) as quantity

from pizza\_type

join pizzas ON pizza\_type.pizza\_type\_id = pizzas.pizza\_type\_id

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

group by pizza\_type.category

order by quantity DESC

limit 5

Q7 - Determine the distribution of orders by hour of the day.

select HOUR(time) as order\_hour, count(order\_id)as order\_count

from orders

group by HOUR(time)

Q8 - Join relevant tables to find the category-wise distribution of pizzas.

select category , count(name) from pizza\_type

group by category

Q9 - Group the orders by date and calculate the average number of pizzas ordered per day.

select round(Avg(quantity)) as average\_quantity from

(select orders.date , sum(order\_details.quantity)as quantity

from orders

JOIN order\_details ON orders.order\_id = order\_details.order\_id

group by orders.date) as order\_quantity

Q10 - Determine the top 3 most ordered pizza types based on revenue.

select pizza\_type.name , round(sum(order\_details.quantity \* pizzas.price)) as revenue from pizza\_type

join pizzas ON pizza\_type.pizza\_type\_id = pizzas.pizza\_type\_id

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

group by pizza\_type.name

order by revenue desc

limit 5

**Advanced:**

Q11- Calculate the percentage contribution of each pizza type to total revenue.

USE pizzahut;

select pizza\_type.category,

round(sum(pizzas.price \* order\_details.quantity)/

(select round(sum(order\_details.quantity \* pizzas.price),2) as total\_dales

from order\_details

JOIN pizzas ON pizzas.pizza\_id = order\_details.pizza\_id) \*100 ,2)as revenue

from pizza\_type

JOIN pizzas ON pizza\_type.pizza\_type\_id = pizzas.pizza\_type\_id

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

group by pizza\_type.category

Q12 - Analyze the cumulative revenue generated over time.

select order\_date, sum(total\_revenue) over(order by order\_date) as com\_revenue

from

(select orders.date as order\_date,

round(sum(order\_details.quantity \* pizzas.price))as total\_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.date) as sales

Q13 - 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\_type.category, pizza\_type.name,sum(order\_details.quantity \* pizzas.price) as revenue

from pizza\_type

JOIN pizzas ON pizza\_type.pizza\_type\_id = pizzas.pizza\_type\_id

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

group by pizza\_type.category, pizza\_type.name) as a) as b

where rn <= 3