**Pizza Hut Sales Data Analysis**

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

select count( distinct order\_id) as Total\_Pizzas\_order from orders\_details;

-- 2. Calculate the total revenue generated from pizza sales.

select sum(p.price \* o.quantity) as Total\_Revenue\_Generated from pizzas as P

join orders\_details as o

on p.pizza\_id = o.pizza\_id;

**-- 3. Identify the highest-priced pizza.**

select p.name, o.price as Highest\_priced\_Pizza from pizza\_types as p

join pizzas as o

on p.pizza\_type\_id= o.pizza\_type\_id

order by 2 desc limit 1;

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

select name, count(\*) as No\_of\_Pizzas\_order from pizzas as p

join pizza\_types as o

on p.pizza\_type\_id = o.pizza\_type\_id

group by 1

order by 2 desc limit 1;

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

select name, count(\*) as No\_of\_Pizzas\_order

, sum(q.quantity) as Total\_Quantity\_Sold from pizzas as p

join pizza\_types as o

on p.pizza\_type\_id = o.pizza\_type\_id

join orders\_details as q

on p.pizza\_id = q.pizza\_id

group by 1

order by 2,3 desc limit 5;

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

select o.category, sum(q.quantity) as Total\_Quantity\_Sold from pizzas as P

join pizza\_types as o

on p.pizza\_type\_id = o.pizza\_type\_id

join orders\_details as q

on p.pizza\_id= q.pizza\_id

group by 1

order by 2 desc;

**-- 7. Determine the distribution of orders by hour of the day.**

select hour(order\_time) as Orders\_by\_Hours,count(\*) as No\_of\_orders

from orders

group by 1;

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

select category, name,count(name) as No\_of\_Pizza\_type from pizza\_types

group by 1,2;

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

select date(order\_date) as Day, avg(order\_id) as Average\_order\_per\_day from orders

group by 1;

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

select p.pizza\_type\_id ,o.name, sum(q.quantity \* p.price) as Tota\_revenue from pizzas as p

join pizza\_types as o

on p.pizza\_type\_id =o.pizza\_type\_id

join orders\_details as q

on p.pizza\_id = q.pizza\_id

group by 1,2 order by 3 desc limit 3;

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

select p.pizza\_type\_id,round( (round(sum(p.price \* q.quantity) ,2) / (select round(sum( p.price \* q.quantity),2) as total\_sales from pizzas as p

join orders\_details as q on p.pizza\_id = q.pizza\_id) \* 100),2) as Revenue\_percentage

from pizzas as p

join orders\_details as q on p.pizza\_id = q.pizza\_id

group by 1;

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

select o.category, sum(p.price \* q.quantity) as Total\_Revenue from pizzas as p

join pizza\_types as o

on p.pizza\_type\_id =o.pizza\_type\_id

join orders\_details as q

on p.pizza\_id = q.pizza\_id

group by 1;

WITH RevenuePerPizza AS (

SELECT

o.category,

p.pizza\_type\_id,

p.pizza\_type\_name, -- assuming there is a pizza\_type\_name column, you can adjust this as per your schema

SUM(p.price \* q.quantity) AS total\_revenue

FROM

pizzas p

JOIN pizza\_types o

ON p.pizza\_type\_id = o.pizza\_type\_id

JOIN orders\_details q

ON p.pizza\_id = q.pizza\_id

GROUP BY

o.category, p.pizza\_type\_id, p.pizza\_type\_name

),

RankedPizzas AS (

SELECT

category,

pizza\_type\_name,

total\_revenue,

ROW\_NUMBER() OVER (PARTITION BY category ORDER BY total\_revenue DESC) AS revenue\_rank

FROM

RevenuePerPizza

)

SELECT

category,

pizza\_type\_name,

total\_revenue

FROM

RankedPizzas

WHERE

revenue\_rank <= 3

ORDER BY

category,

revenue\_rank

;