```
show databases;
create database Pizza Shop;
use Pizza Shop;
show tables;
-- Q1 Total No of orders
SELECT
  COUNT(order id) AS Total Orders
FROM
  order details;
-- Q2 Calculate total revenue generated from Pizza Sales
SELECT
  ROUND(SUM(od.quantity * p.price), 2) AS Total Revenue
FROM
  order details AS od
    JOIN
  Pizzas AS p ON o.pizza id = p.pizza id;
-- Q3 Identify the Highest Price 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;
-- 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
LIMIT 1;
```

-- Q5 List the top 5 most ordered pizza types along with their quantity **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 order details ON order details.pizza id = pizzas.pizza id GROUP BY pizza types.name **ORDER BY Quantity DESC** LIMIT 5; -- Q6 Join the necessary table to find the total quantity of each pizza category **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 order details ON order details.pizza id = pizzas.pizza id GROUP BY pizza types.category ORDER BY Quantity DESC; -- Q7 Determine distribution of the order by hour of the day **SELECT** HOUR(time), COUNT(order id) **FROM** orders GROUP BY HOUR(time) ORDER BY HOUR(time); -- Q8 Join relevat tables to find category wise distribution of pizza **SELECT**

category, COUNT(category)

FROM

pizza_types GROUP BY category; -- Q9 Group the orders by date and calculate the average number of pizzas ordered per day **SELECT** ROUND(AVG(data), 2) AS Average Orders **FROM** (SELECT orders.date, SUM(order details.quantity) AS data **FROM** orders JOIN order details ON orders.order id = order details.order id GROUP BY orders.date) AS imp table; -- Q10 Determine the most 3 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 order details ON pizzas.pizza id = order details.pizza id GROUP BY pizza types.name ORDER BY Revenue DESC LIMIT 3; -- Q11 Calculate the percentage contribution of each pizza type to total revenue **SELECT** pizza types.category, ROUND(SUM(order details.quantity * pizzas.price) / (SELECT SUM(order details.quantity * pizzas.price) **FROM** order details 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

order details ON pizzas.pizza id = order details.pizza id

JOIN

GROUP BY pizza_types.category ORDER BY Revenue DESC;

-- Q12 Analyze the cumulative revenue generated over time

```
SELECT
date,
round(SUM(revenue) OVER (ORDER BY date),2) AS cum_revenue
FROM
(SELECT
orders.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.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_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;
```