Based on your **zepto_v2.csv** dataset, the table has the following columns:

Category, name, mrp, discountPercent, availableQuantity, discountedSellingPrice, weightInGms, outOfStock, quantity

Below are **50 MySQL practical questions** divided into **Basic, Intermediate, and Advanced** levels, fully aligned with this dataset.

🟢 **BASIC LEVEL (1–20)**

1. Display all records from the table.
2. Show only the name and mrp of all products.
3. List all products where Category = 'Fruits & Vegetables'.
4. Find products where mrp is greater than 3000.
5. Show products where discountPercent is 15.
6. Display products where outOfStock is FALSE.
7. List the names of products with weightInGms greater than 500.
8. Find products where availableQuantity is less than 5.
9. Show distinct categories available in the table.
10. Count the total number of products.
11. Display products sorted by mrp in ascending order.
12. Display products sorted by discountPercent in descending order.
13. Show top 10 most expensive products based on mrp.
14. Find products where name starts with letter ‘T’.
15. Count how many products are out of stock.
16. Show products where quantity is greater than 50.
17. Find products where mrp is between 2000 and 4000.
18. Display products where discountedSellingPrice is less than 1500.
19. List products where weightInGms equals 1000.
20. Show all products whose category contains the word ‘Vegetables’.

🟡 **INTERMEDIATE LEVEL (21–35)**

21. Find the maximum mrp in each category.
22. Find the minimum discountedSellingPrice in each category.
23. Count the number of products in each category.

24. Calculate the average mrp of all products.
25. Show total available quantity of products category-wise.
26. Find products where the difference between mrp and discountedSellingPrice is greater than 1000.
27. Display products with discount greater than the average discount.
28. Show categories having more than 50 products.
29. Find top 5 products with highest discount percent.
30. Display total inventory weight (weightInGms * availableQuantity) for each product.
31. Find products where discountedSellingPrice is less than 50% of mrp.
32. Show products whose names contain the word 'Coconut'.
33. Calculate total stock value (discountedSellingPrice * availableQuantity) for each product.
34. Display the category with the highest average discount.
35. Show products where availableQuantity is zero but outOfStock is FALSE (data inconsistency check).

🔴 **ADVANCED LEVEL (36–50)**

36. Rank products within each category based on mrp.
37. Find the second highest mrp product in each category.
38. Display cumulative sum of availableQuantity category-wise.
39. Find products whose mrp is higher than the average mrp of their category.
40. Identify products where discount percent is above category average discount.
41. Create a view showing only in-stock products with discount greater than 20%.
42. Write a query to update outOfStock = TRUE where availableQuantity = 0.
43. Create a stored procedure to fetch products by category name.
44. Create a function to calculate discount amount (mrp - discountedSellingPrice).
45. Find duplicate product names if any exist.
46. Show top 3 cheapest products in each category.
47. Find categories where total stock value exceeds 1,00,000.
48. Create a trigger that sets outOfStock to TRUE when availableQuantity becomes 0.
49. Generate a report showing: Category, Total Products, Avg MRP, Avg Discount.
50. Write a query using a subquery to find products with mrp greater than overall average mrp.
