SQL Query Question Set

General SQL Questions

1. Assume a table containing two columns A and B with integer values. If NULL value is present in column A replace it with the value in B and change B value to 30 if only A value is NULL

2. Count the number of records/rows in a table and if null value is present in any of the columns then count that row twice.
3. Assume a table with two columns A and B with integer values. Write a query to list out the maximum of A & B as output for each record.
4. List out all customers whose name contains "s" as the third letter. Don't use LIKE operator.
5. Assume a table with two columns A and B with integer values. Write a query to list out those records where A or B contains a NULL value.

Answer the Queries using Northwind Database

1. Find the second costliest product
2. List out all the customers (id and name) and the count of the orders that they made
3. List out all the customers (id and name) and the total value of the orders that they made
4. Find the customer with the highest number of orders
5. Find the customer with the second highest number of orders
6. Find the order with highest number of items
7. Find the customer with the highest order value
8. Find the supplier who supplies the highest number of products
9. Which category has the highest number of products
10. Which category is selling the highest?
11. From which region do we have the highest number of customers?
12. List all the regions and the count of customers from that region
13. List all the regions and the count of suppliers from that region
14. List out all orders that were delivered before the requested date?
15. Which customer received the highest discount?
16. Which order contains the highest quantity for a single product?
17. Find the average total value for orders.
18. List out all orders with a total value higher than the average total value for orders.

19. List out all products with discounts higher than average discount offered.
20. Find out the product with the highest discount?
21. Find the order with the highest total cost?
22. Find out the product that sells the highest?
23. Find the order(s) that took the most time to deliver?
24. Find the order(s) that took the least time to deliver?
25. Find the top three orders with the highest total order value?
26. Find the shipper who made the highest number of shipping?
27. Find out how many Regions are null combining all the tables in the Northwind database. (example employee table has region, supplier table has region, etc)
28. List out the top 10 orders that were shipped the fastest (lowest time taken to ship the order)
29. List out the top 10 orders that were delayed the most (highest time taken to ship the order)
30. List out the top 10 products that contributed the most, towards total order value.

Note: Most of these queries can be altered to include a **date range or period.** Example for the year 1996 or for the first quarter of 1996 or for the month of January, 1997, etc.

Queries for Data Analysis/Data Science

1. Find out the Product of the month for January 1997 in terms of total sales value
2. Find out the Product of the month for January 1997 in terms of total number sold
3. Find out the Product of the year for each year in terms of total sales value
4. Find out the Customer of the Year for each year based on total order value
5. Find out the Customer of the Year for each year based on number of orders or order count
6. Find out the Employee of the month for each month based on total number of sales or orders handled
7. Find out the Employee of the month for each month based on total sales/order value
8. Find out the Shipper of the year for each year in terms of total number of shipments
9. Find out the Percentage contribution of Products or Employees or Customers or Categories or Shippers towards total order value
10. Find out the Percentage contribution of Products or Employees or Customers or Categories or Shippers towards total number of orders