SQL On SUNDAY!  
  
Here are 30 most asked SQL questions to clear your next interview -   
  
➤ 𝗪𝗶𝗻𝗱𝗼𝘄 𝗙𝘂𝗻𝗰𝘁𝗶𝗼𝗻𝘀  
  
1. Find the cumulative sum of sales for each employee.  
2. Rank employees based on their sales within their department.  
3. Calculate a running total of orders by order date.  
4. Identify the top three salaries in each department.  
5. Compute the difference between the current and previous month's sales.  
  
➤ 𝗖𝗼𝗺𝗺𝗼𝗻 𝗧𝗮𝗯𝗹𝗲 𝗘𝘅𝗽𝗿𝗲𝘀𝘀𝗶𝗼𝗻𝘀 (𝗖𝗧𝗘)  
  
1. Write a recursive CTE to generate a sequence of numbers from 1 to 100.  
2. Use a CTE to find employees who directly and indirectly report to a specific manager.  
3. Calculate the factorial of a number using a recursive CTE.  
4. Flatten a hierarchical organization chart using a CTE.  
5. Use a CTE to calculate year-over-year growth in sales.  
  
➤ 𝗝𝗼𝗶𝗻𝘀 (𝗜𝗻𝗻𝗲𝗿, 𝗢𝘂𝘁𝗲𝗿, 𝗖𝗿𝗼𝘀𝘀, 𝗦𝗲𝗹𝗳)  
  
1. Retrieve a list of customers who have placed orders (Inner Join).  
2. Find employees who have not been assigned to any projects (Left Join).  
3. Get a list of projects without assigned employees (Right Join).  
4. Generate all possible pairs of products (Cross Join).  
5. Match employees to themselves to find pairs from the same department (Self Join).  
  
➤ 𝗦𝘂𝗯𝗾𝘂𝗲𝗿𝗶𝗲𝘀  
  
1. Find employees earning more than the average salary in their department.  
2. Retrieve customers who have placed more than 5 orders.  
3. List products that have never been ordered.  
4. Identify the second highest salary in the company using a subquery.  
5. Find departments where all employees earn above a specific threshold.  
  
➤ 𝗔𝗴𝗴𝗿𝗲𝗴𝗮𝘁𝗲 𝗙𝘂𝗻𝗰𝘁𝗶𝗼𝗻𝘀  
  
1. Calculate the total revenue generated by each product.  
2. Find the average salary in each department.  
3. Count the number of orders placed by each customer.  
4. Find the maximum and minimum sales for each region.  
5. Calculate the standard deviation of employee salaries.  
  
➤ 𝗜𝗻𝗱𝗲𝘅𝗶𝗻𝗴 𝗮𝗻𝗱 𝗣𝗲𝗿𝗳𝗼𝗿𝗺𝗮𝗻𝗰𝗲  
  
1. Identify queries that would benefit from indexing.  
2. Compare execution plans with and without an index on a specific column.  
3. Check which indexes exist on a table.  
4. Optimize a slow query using indexing.  
5. Write a query to update a column using an indexed lookup.  
  
𝗕𝗲𝘀𝘁 𝗽𝗹𝗮𝘁𝗳𝗼𝗿𝗺𝘀 𝘁𝗼 𝗽𝗿𝗮𝗰𝘁𝗶𝗰𝗲 𝗦𝗤𝗟 𝗽𝗿𝗼𝗯𝗹𝗲𝗺𝘀 𝗱𝗮𝗶𝗹𝘆  
  
- Dataford - <https://lnkd.in/gtqdw864>  
- LeetCode - <https://lnkd.in/gkCpv7NA>  
- HackerRank - <https://lnkd.in/gnFS4frz>  
- SQLZoo - <https://sqlzoo.net/>  
- Mode Analytics - <https://lnkd.in/gRPrQrf5>  
- SQL Bolt - <https://sqlbolt.com/>  
- GeeksforGeeks - <https://lnkd.in/ggYbizNB>  
  
𝗚𝗲𝘁 𝘁𝗵𝗲 𝗙𝘂𝗹𝗹 𝗜𝗻𝘁𝗲𝗿𝘃𝗶𝗲𝘄 𝗽𝗿𝗲𝗽 𝗸𝗶𝘁 𝗳𝗼𝗿 𝗗𝗮𝘁𝗮 𝗘𝗻𝗴𝗶𝗻𝗲𝗲𝗿𝘀 𝗵𝗲𝗿𝗲 -  
<https://lnkd.in/gNH-trFm>