Last minute SQL questions to revise before an interview

1. **SQL Basics & Syntax**
   - Understanding SQL structure: SELECT, INSERT, UPDATE, DELETE
   - Query structure: SELECT * FROM table WHERE condition;

2. **Database Design & Normalization**
   - Entity-Relationship (ER) diagrams
   - First, Second, Third Normal Forms (1NF, 2NF, 3NF)

3. **Joins**
   - INNER JOIN, LEFT JOIN, RIGHT JOIN, FULL OUTER JOIN
   - CROSS JOIN and self-joins
   - Join conditions and aliases

4. **Aggregate Functions**
   - COUNT(), SUM(), AVG(), MIN(), MAX()
   - GROUP BY and HAVING clauses
   - Filtering aggregated results

5. **Subqueries**
   - Scalar subqueries, IN, EXISTS, and correlated subqueries
   - Using subqueries in SELECT, WHERE, and FROM clauses

6. **Indexes**
   - Types of indexes (unique, composite)
   - Creating and using indexes to optimize queries

7. **Transactions & ACID Properties**
   - COMMIT, ROLLBACK, and SAVEPOINT
   - Understanding Atomicity, Consistency, Isolation, Durability (ACID)

8. **Stored Procedures and Functions**
    - Creating and using stored procedures and functions
    - Understanding parameters, return values, and control flow

9. **View**
    - Creating, altering, and dropping views
    - Using views to simplify complex queries

10. **Advanced SQL Concepts**
    - Window functions (e.g., ROW_NUMBER(), RANK(), PARTITION BY)
    - Common Table Expressions (CTE) and recursive queries