**SQL Syllabus for Data Analysts**

1. **Introduction to SQL**
   * What is SQL?
   * Importance of SQL in Data Analysis
   * Overview of Database Management Systems (DBMS)
2. **Basic SQL Syntax**
   * SQL Data Types
   * Basic SQL Commands: SELECT, FROM, WHERE
   * Filtering Data with WHERE Clause
   * Using ORDER BY for Sorting Results
3. **Working with Multiple Tables**
   * Understanding Joins: INNER JOIN, LEFT JOIN, RIGHT JOIN, FULL OUTER JOIN
   * UNION and UNION ALL
   * Cross Joins
4. **Aggregating Data**
   * Using Aggregate Functions: COUNT, SUM, AVG, MIN, MAX
   * GROUP BY Clause
   * HAVING Clause for Filtering Aggregated Data
5. **Subqueries**
   * What is a Subquery?
   * Using Subqueries in SELECT, FROM, and WHERE Clauses
   * Correlated Subqueries
6. **Data Manipulation**
   * Inserting Data: INSERT INTO
   * Updating Data: UPDATE
   * Deleting Data: DELETE
7. **Data Cleaning and Transformation**
   * Handling NULL Values
   * String Functions: CONCAT, SUBSTRING, TRIM, etc.
   * Date Functions: DATEPART, DATEDIFF, etc.
8. **Advanced SQL Concepts**
   * Window Functions: ROW\_NUMBER, RANK, DENSE\_RANK
   * Common Table Expressions (CTEs)
   * Temporary Tables and Views
9. **Performance Optimization**
   * Indexing Basics
   * Query Optimization Techniques
10. **Practical Applications**
    * Real-world Data Analysis Projects