# LeetCode Top 50 SQL Problems - Solutions Repository

Welcome to the repository for the solutions to the top 50 SQL questions on LeetCode! This repository contains my solutions to the SQL problems listed in the LeetCode Top SQL 50 Study Plan.

🔗 My LeetCode Profile

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## Introduction

Welcome to the **LeetCode Top 50 SQL Problems** repository. This project is a comprehensive collection of SQL solutions to help learners, job seekers, and developers strengthen their SQL skills through practical problem solving.

Each file contains clean, efficient SQL queries for real interview-level problems across various categories — from basic SELECT to complex subqueries and string manipulations using REGEXP.

This project is ideal for:

- Beginners aiming to understand foundational concepts
- Intermediate users refining their SQL logic
- Interview preparation for data-related roles (Analyst, Engineer, Scientist)

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## Folder Structure

📁 LeetCode_SQL_Problems/

├── 📁 Select/

├── 📁 Basic_Joins/

├── 📁 Basic_Aggregate_Functions/

├── 📁 Sorting_and_Grouping/

├── 📁 Advanced_Select_and_Joins/

├── 📁 Subqueries/

├── 📁 Advanced_String_Functions_Regex_Clause/

└── 📄 README.md

Each folder contains .sql files named after the corresponding LeetCode problem.

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## Solutions by Category

**1. Select**

- Recyclable and Low Fat Products
- Find Customer Referee
- Big Countries
- Article Views I
- Invalid Tweets

**2. Basic Joins**

- Replace Employee ID With The Unique Identifier
- Product Sales Analysis I
- Customer Who Visited but Did Not Make Any Transactions
- Rising Temperature
- Average Time of Process per Machine
- Employee Bonus
- Students and Examinations
- Managers with at Least 5 Direct Reports
- Confirmation Rate

**3. Basic Aggregate Functions**

- Not Boring Movies
- Average Selling Price
- Project Employees I
- Percentage of Users Attended a Contest
- Queries Quality and Percentage
- Monthly Transactions I
- Immediate Food Delivery II
- Game Play Analysis IV

**4. Sorting and Grouping**

- Number of Unique Subjects Taught by Each Teacher
- User Activity for the Past 30 Days I
- Product Sales Analysis III
- Classes More Than 5 Students

- Find Followers Count
- Biggest Single Number
- Customers Who Bought All Products

**5. Advanced Select and Joins**

- The Number of Employees Which Report to Each Employee
- Primary Department for Each Employee
- Triangle Judgement
- Consecutive Numbers
- Product Price at a Given Date
- Last Person to Fit in the Bus
- Count Salary Categories

**6. Subqueries**

- Employees Whose Manager Left the Company
- Exchange Seats
- Movie Rating
- Restaurant Growth
- Friend Requests II: Who Has the Most Friends
- Investments in 2016
- Department Top Three Salaries

**7. Advanced String Functions / Regex / Clause**

- Fix Names in a Table
- Patients With a Condition
- Delete Duplicate Emails
- Second Highest Salary
- Group Sold Products By The Date
- List the Products Ordered in a Period
- Find Users With Valid E-Mails

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## How to Use

1. **Clone the Repository**

git clone: https://github.com/ChetanyaYadav/Celebal-Internship/tree/main/Week6_Assignment_Celebal_Technology/Leetcode_Performed_Questions

cd LeetCode_SQL_Problems

2. **Open in Your SQL Editor** Use any SQL engine (MySQL, PostgreSQL, SQLite, etc.) and open the files from each category.
3. **Practice by Modifying Queries** Try tweaking the queries to understand better, run explain plans, or adapt them to your own datasets.
4. **Cross-reference with LeetCode** Each SQL file corresponds directly to a problem on LeetCode, so you can test solutions live on the platform.

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## Technologies Used

- **SQL** – Core language for all queries
- **Git** – Version control and collaboration
- **Markdown** – For documentation

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## Contributing

If you find errors, improvements, or want to add more problems:

1. Fork this repo
2. Create a new branch
3. Submit a Pull Request

Your contributions are welcome!

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