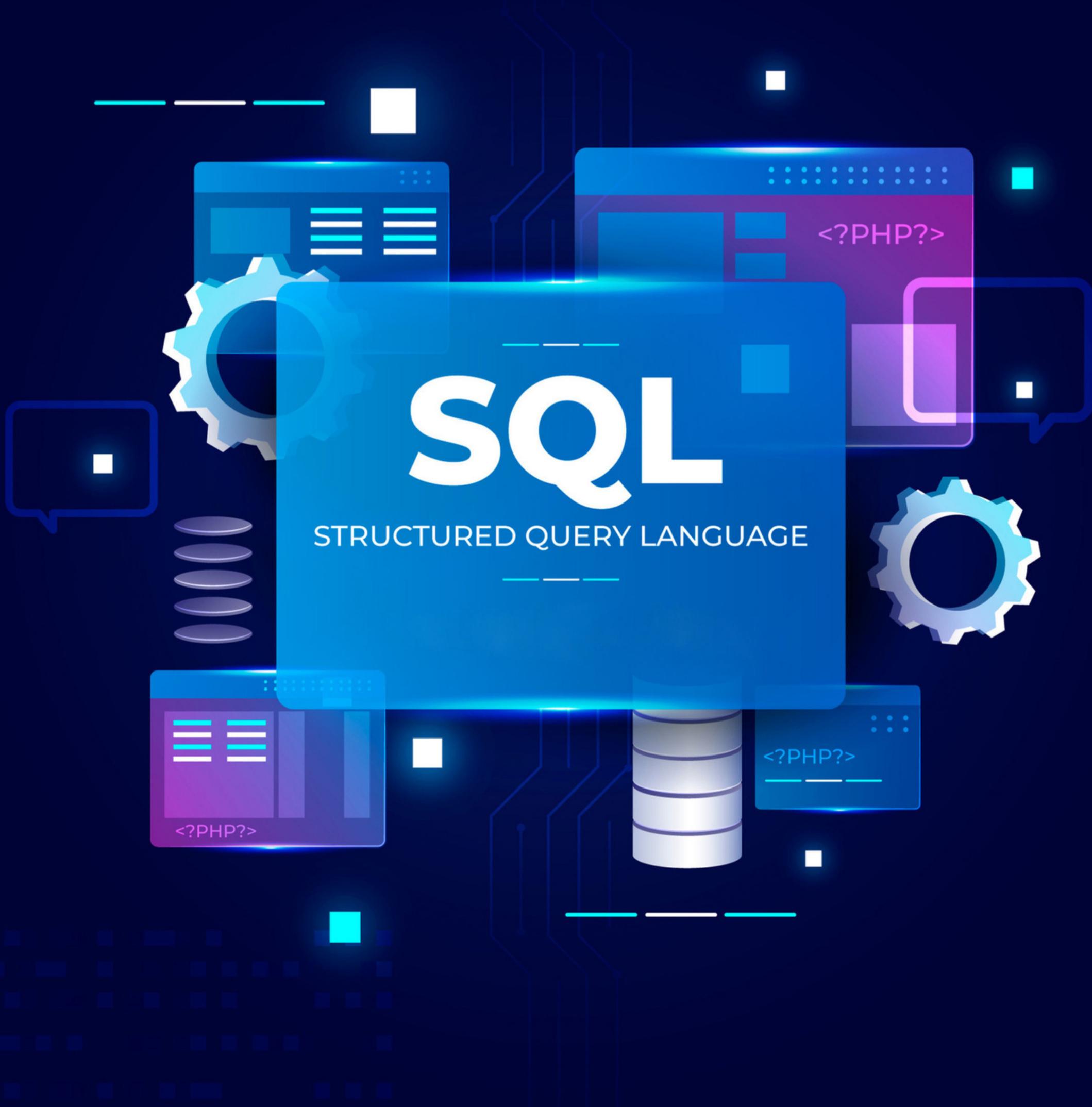




# 25 DAYS SQL ROADMAP





## Day 1 Recyclable and Low Fat Products

Write an SQL query to find the ids of products that are both low fat and recyclable.

Return the result table in any order.

**Practice**

## Day 2 Find Customer Referee

Write an SQL query to report the names of the customer that are not referred by the customer with id = 2.

Return the result table in any order.

**Practice**

## Day 3 Article Views I

Write an SQL query to find all the authors that viewed at least one of their own articles.

Return the result table sorted by id in ascending order.

**Practice**

## Day 4 Employee Bonus

Write an SQL query to report the name and bonus amount of each employee with a bonus less than 1000.

Return the result table in any order.

**Practice**

## Day 5 Managers with at Least 5 Direct Reports

Write an SQL query to report the managers with at least five direct reports.

Return the result table in any order.

**Practice**

## Day 6 Confirmation Rate

The confirmation rate of a user is the number of 'confirmed' messages divided by the total number of requested confirmation messages. The confirmation rate of a user that did not request any confirmation messages is 0. Round the confirmation rate to two decimal places.

Write an SQL query to find the confirmation rate of each user.

**Practice**

## Day 7 Average Selling Price

Write an SQL query to find the average selling price for each product. `average_price` should be rounded to 2 decimal places.

Return the result table in any order.

**Practice**

## Day 8 Project Employees I

Write an SQL query that reports the average experience years of all the employees for each project, rounded to 2 digits.

Return the result table in any order.

**Practice**

## Day 9 Game Play Analysis IV

Write an SQL query to report the fraction of players that logged in again on the day after the day they first logged in, rounded to 2 decimal places.

In other words, you need to count the number of players that logged in for at least two consecutive days starting from their first login date, then divide that number by the total number of players.

**Practice**

## Day 10 User Activity for the Past 30 Days I

Write an SQL query to find the daily active user count for a period of 30 days ending 2019-07-27 inclusively. A user was active on someday if they made at least one activity on that day.

Return the result table in any order.

Practice

## Day 11 Product Sales Analysis III

Write an SQL query that selects the product id, year, quantity, and price for the first year of every product sold.

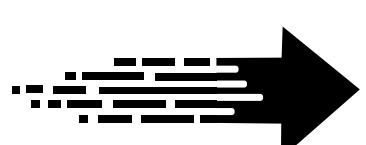
Return the resulting table in any order.

Practice

## Day 12 Biggest Single Number

A single number is a number that appeared only once in the MyNumbers table.

Practice



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## Day 13 Primary Department for Each Employee

Write an SQL query to report all the employees with their primary department. For employees who belong to one department, report their only department.

Return the result table in any order.

**Practice**

## Day 14 Triangle Judgement

Write an SQL query to report for every three line segments whether they can form a triangle.

Return the result table in any order.

**Practice**

## Day 15 Product Price at a Given Date

Write an SQL query to find the prices of all products on 2019-08-16. Assume the price of all products before any change is 10.

Return the result table in any order.

**Practice**



## Day 16 Last Person to Fit in the Bus

Write an SQL query to find the person\_name of the last person that can fit on the bus without exceeding the weight limit.

The test cases are generated such that the first person does not exceed the weight limit.

**Practice**

## Day 17 Exchange Seats

Write an SQL query to swap the seat id of every two consecutive students. If the number of students is odd, the id of the last student is not swapped.

Return the result table ordered by id in ascending order.

**Practice**

## Day 18 Investments in 2016

Write an SQL query to report the sum of all total investment values in 2016 tiv\_2016, for all policyholders who:

- have the same tiv\_2015 value as one or more other policyholders, and

**Practice**



## Day 19 Fix Names in a Table

Write an SQL query to fix the names so that only the first character is uppercase and the rest are lowercase.

Return the result table ordered by user\_id.

**Practice**

## Day 20 Patients With a Condition

Write an SQL query to report the patient\_id, patient\_name and conditions of the patients who have Type I Diabetes. Type I Diabetes always starts with DIAB1 prefix.

Return the result table in any order.

**Practice**

## Day 21 Delete Duplicate Emails

Write an SQL query to delete all the duplicate emails, keeping only one unique email with the smallest id.

Note that you are supposed to write a DELETE statement and not a SELECT one.

**Practice**

## Day 22 Second Highest Salary

Write an SQL query to report the second highest salary from the Employee table.

If there is no second highest salary, the query should report null.

**Practice**

## Day 23 Group Sold Products By The Date

Write an SQL query to find for each date the number of different products sold and their names.

The sold products names for each date should be sorted lexicographically.

Return the result table ordered by sell\_date.

**Practice**

## Day 24 List the Products Ordered in a Period

Write an SQL query to get the names of products that have at least 100 units ordered in February 2020 and their amount.

Return result table in any order.

**Practice**



## Day 25 Find Users With Valid E-Mails

Write an SQL query to find the users who have valid emails.

A valid e-mail has a prefix name and a domain where:

- The prefix name is a string that may contain letters (upper or lower case), digits, underscore '\_', period '.', and/or dash '-'. The prefix name must start with a letter.
- The domain is '@leetcode.com'.

Return the result table in any order.

### Practice

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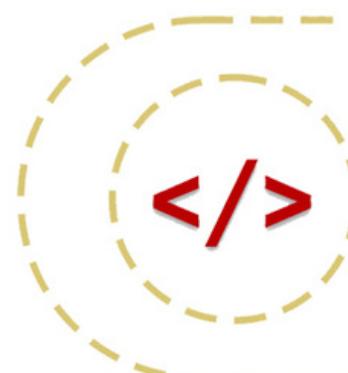
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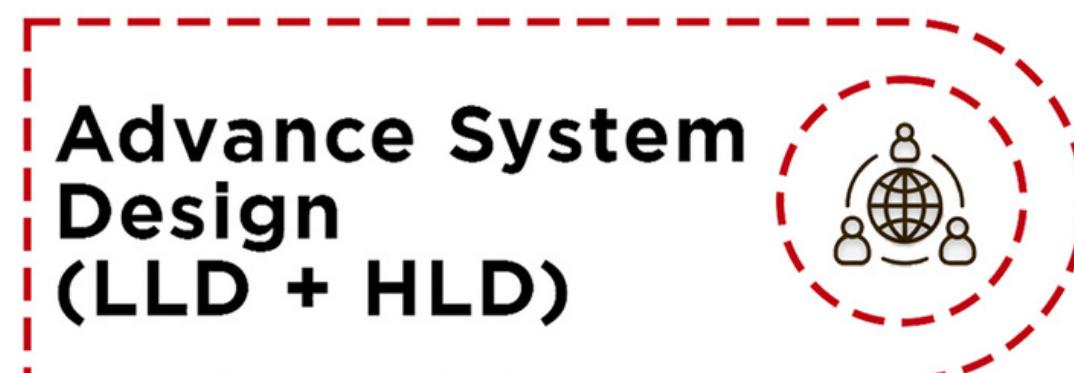
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