

Question 01 :

Optimize the performance of queries that search for posts by a specific user with a minimum score threshold, ordered by score.

Example query pattern:

"Find all posts by user 5 with score > 50, ordered by score descending"

Tasks:

- a) Design and implement an appropriate index structure
- b) Ensure the index covers all columns needed by the query
- c) Write a test query that demonstrates the optimization
- d) Verify the index was created successfully

Question 02 :

Optimize queries that frequently access high-value posts. These queries always filter for posts with score > 100 and non-null titles.

Tasks:

- a) Design an index that only includes posts meeting these criteria
- b) Include relevant columns in the index
- c) Write a query that demonstrates the optimization
- d) Explain why this specialized index design is beneficial