Indexing Assignment -1

The students collection stores individual student records, including fields such as name, major, gpa, and email. This collection is used to manage student information and optimize queries for academic and administrative purposes.

Create a single-field index on the name field in the students collection and verify its creation.

Create a compound index on the major and gpa fields in the students collection and verify its creation.

Create a unique index on the email field in the students collection and verify its creation.

Remove duplicate entries from the students collection based on the email field.

Drop the unique index on the email field and verify its removal.

Drop the compound index on the major and gpa fields and verify its removal.

Retrieve and print the index statistics for the students collection.

Indexing Assignment -2

The students_club collection contains records of student club memberships, including details such as club names, member counts, and student email addresses.

Create a single-field index on the club_name field in the students_club collection and verify its creation.

Create a compound index on the club_name and member_count fields in the students_club collection and verify its creation.

Create a unique index on the email field in the students_club collection and verify its creation.

Remove duplicate entries from the students club collection based on the email field.

Drop the unique index on the email field and verify its removal.

Drop the compound index on the club name and member count fields and verify its removal.

Retrieve and print the index statistics for the students club collection.