

Self Assessment

Problem Statement: Junior High School Academic Records Database

A junior high school keeps all academic records in notebooks. Teachers record classwork test scores, exam marks manually. The school runs three terms in each academic year, and students promote yearly based on their overall performance. Each class studies nine or more subjects, and teachers submit scores at the end of every term.

The school wants to move to a MySQL database system to manage all academic work. The system should make it easy to register students, assign them to classes, record their subjects, enter scores for each term, and produce term report sheets.

Your Tasks:

1. Identify and list all entities such as students, classes, subjects, teachers, terms, and scores.
2. Draw an ER diagram showing how these entities relate.
3. Define the relationships such as student to class, class to subjects, and student to term scores.
4. Create the database and tables in MySQL with correct keys and constraints.
5. Insert sample data and run queries that show term results, class subjects, student promotions, and subject performance.