**Design a database for YB college:**

1. **Project scope (short paragraph)**  
   Write a story that defines the purpose and scope of the database. Describe the main entities (e.g., students, lecturers, etc).

To create a comprehensive database for a master's program for the year 2025. This database would include various details such as student information, subjects, lecturers, course fees, and the duration of the program.

The purpose of this database is to store and manage all essential information related to the 2025 master's program. This includes details about the students, the subjects they will be studying, the lecturers teaching those subjects, the course fees, and the duration of the program. By having all this information in one place, the College could efficiently manage enrollments, track student progress, and ensure that all administrative tasks will be handled smoothly.

The database needs to cover various aspects of the master's program, from student enrollment to course management and fee tracking.

The main entities in this database:

1. **Students**: This entity represents the students enrolled in the master's program. Each student has a unique Student ID, along with their name, contact information, enrollment date, and the program they were enrolled in.
2. **Subjects**: This entity lists all the subjects offered in the master's program. Each subject has a unique Subject ID, a name, a description, and the number of credits it has worth. The subjects will be linked to the program they will be part of.
3. **Lecturers**: This entity contains information about the lecturers teaching the subjects. Each lecturer has a unique Lecturer ID, along with their name, contact information, and the subjects they will be teaching.
4. **Course Fees**: This entity details the fees associated with each course. Each fee record has a unique Fee ID, along with the Student ID, Subject ID, course name, fee amount, and payment due date.
5. **Program Duration**: This entity outlines the duration of the master's program. Each program has a unique Program ID, a name, a start date, an end date, and the total duration of the program.
6. **Enrollments**: This intermediary entity manages the many-to-many relationship between students and subjects. Each enrollment record has a unique Enrollment ID, along with the Student ID, Subject ID, and enrollment date.
7. **Teaching Assignments**: This intermediary entity manages the many-to-many relationship between subjects and lecturers. Each assignment record has a unique Assignment ID, along with the Subject ID, Lecturer ID, and the semester in which the subject will be taught.
8. **Entities and EER diagram**  
   List all entities with brief descriptions of their roles and attributes (e.g., Student, Course, Class, Lecturer, etc).
9. **Table design**  
   State how many tables are required after mapping the EER to a relational schema.