

### **Scenario 1: Library Management System**

A public library wants to digitize its record-keeping. They need a database to store information about books, authors, and borrowers. Each book should have a title, author, genre, and a unique identifier. Authors may have written multiple books. The system should track which books are currently borrowed, the borrower's details, and the due date. Additionally, the library wants to generate reports on overdue books and the most borrowed books.

### **Scenario 2: Employee Records Management**

A company needs a system to store employee details, including their name, department, salary, and date of joining. Each employee should have a unique employee ID. The company wants to generate reports such as the total number of employees in each department, the average salary across all employees, and a list of employees who have joined within the past year. Additionally, they need a way to track promotions and salary increments over time.

### **Scenario 3: Student Grades System**

A university needs a database to manage student enrollments, courses, and grades. Each student should have a unique student ID, name, and date of birth. Courses should include details like course name, instructor, and credits. Students can enroll in multiple courses, and their grades need to be recorded. The university wants the ability to generate reports such as the highest and lowest grades in a course, students who failed a subject, and the overall GPA of each student.

Submission link: <https://forms.gle/oDE778LePjbYPAVE7>