

### **Assignment (Database Constraints)**

1. Create a table named Students with columns for student ID, name, and age. Apply a primary key constraint to the student ID column.
2. Create a table named Courses with columns for course ID, course name, and instructor. Create another table named Enrollments with columns for enrollment ID, student ID (foreign key referencing the Students table), and course ID (foreign key referencing the Courses table).
3. Add a unique constraint to the email column in the Students table to ensure that each student has a unique email address.
4. Create a table named Employees with columns for employee ID, name, salary, and department. Apply a check constraint to the salary column to ensure that the salary is greater than or equal to \$30,000.
5. Modify the Courses table to include a column for course description. Apply a not null constraint to this column to ensure that each course has a description.
6. Attempt to insert a new student into the Students table with the same student ID as an existing student. Describe the outcome of the operation.
7. Attempt to enroll a student in a course that does not exist in the Courses table. Describe the outcome of the operation.
8. Attempt to insert a new student into the Students table with the same email address as an existing student. Describe the outcome of the operation.
9. Attempt to insert an employee into the Employees table with a salary below \$30,000. Describe the outcome of the operation.
10. Attempt to insert a new course into the Courses table without providing a description. Describe the outcome of the operation.