**MYSQL Task-02**

**DB Schema for the zen class**

**Entities:**

1. **Students:**
   * student\_id (Primary Key)
   * name
   * email
   * phone\_number
   * gender
   * date\_of\_birth
   * address
2. **Courses:**
   * course\_id (Primary Key)
   * course\_name
   * description
   * start\_date
   * end\_date
   * instructor (Foreign Key referencing Instructor table)
3. **Instructor:**
   * instructor\_id (Primary Key)
   * name
   * email
   * phone\_number
   * expertise\_area
4. **Enrollments:**
   * enrollment\_id (Primary Key)
   * student\_id (Foreign Key referencing Students table)
   * course\_id (Foreign Key referencing Courses table)
   * enrollment\_date
   * completion\_status (e.g., 'Enrolled', 'Completed', 'Dropped')
   * grade (if applicable)

**Relationships:**

* One-to-Many relationship between Courses and Students (one course can have many students enrolled)
* Many-to-One relationship between Courses and Instructor (many courses can be taught by one instructor)
* Many-to-Many relationship between Students and Courses (a student can enroll in many courses, and a course can have many students)

**Database schema using Entity Relationship diagram**

