

# Topic

*Write the mini world for the scheduling of classrooms of a university for the final exams.*

Mini world for a university classroom scheduling database:

- Entities:
  - Course -
    - Attributes -
      - name
      - department
      - c-number
  - Section -
    - Attributes -
      - s\_no
      - enrollment
  - Room
    - Attributes -
      - r\_no
      - capacity
      - building
  - Exam
    - Attributes -
      - course\_name
      - section\_number
      - room\_number
      - time
- Relationships:
  - A **Course** can have multiple **Sections**, and a **Section** is related to one **Course**. (One-to-Many Relationship)
  - A **Room** can be assigned to multiple **Exams**, and an **Exam** is assigned to one **Room**. (Many-to-One Relationship)
  - A **Course** can have multiple **Exams**, and an **Exam** is associated with one **Course**. (One-to-Many Relationship)
  - A **Section** can have multiple **Exams**, and an **Exam** is associated with one **Section**. (One-to-Many Relationship)
  - The **Exam** entity set includes attributes related to scheduling final exams for courses, such as the course name, section number, assigned room number, and the exam time.
  - The **Course**, **Section**, and **Room** entity sets provide additional information about courses, sections, and rooms, respectively, which are essential for scheduling final exams.

## ER- Diagram

