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Business Rules for Assignment 4

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This ERD is to show a database management system created to assist an international school of technology in scheduling classes. The following are the business rules surrounding the newly created ERD:

1. A ROOM may be a LAB or a CLASSROOM, but not both.
2. A LAB is one and only one ROOM, while a ROOM may be zero or one LAB.
3. A CLASSROOM is one and only one ROOM, while a ROOM may be zero or one CLASSROOM.
4. A ROOM may POSSESS zero to many MEDIA but MEDIA may be POSSESSED by one and only one ROOM.
5. A ROOM may contain zero to many SCHEDULE but a SCHEDULE may be related to zero or one ROOM.
6. A ROOM may contain zero or one SECTION and a SECTION can be related to one and only one ROOM.
7. A SCHEDULE may contain zero or one SECTION and a SECTION will be related to zero or one SCHEDULE.
8. A SCHEDULE may have zero or one TIMESLOT while a TIMESLOT may be related to zero to many SCHEDULE.
9. A SECTION is related to one and only one COURSE while a COURSE may have one to many SECTIONs.
10. A SECTION may have one and only one INSTRUCTOR but an INSTRUCTOR can teach zero to many SECTION.
11. A COURSE may require zero to many PREREQUISITES but each PREREQUISITE is required by one and only one COURSE.
12. A TIMESLOT may have zero or one INSTRUCTOR while an INSTRUCTOR may teach in zero to many TIMESLOT.
13. An INSTRUCTOR can be TRAINED on zero to many types of MEDIA and many types of MEDIA can be used by zero to many INSTRUCTOR.
14. A LAB can POSSESS zero or many COMPUTER TYPE while zero to many COMPUTER TYPE can be in zero to many LAB.