

ISLAMIC UNIVERSITY OF TECHNOLOGY



DATABASE MANAGEMENT SYSTEMS LAB

CSE 4308 / CSE 4174

Lab 6

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1 Lab Task

The IUT CSE Department has several research groups, such as Networking, NDAG, CV, SSL, Bioinfo, and SEL, focusing on different areas of computer science. Each research group has:

- A unique name
- A dedicated lab
- A budget
- A group head

The department has several faculty members and students who participate in research activities. Each member has:

- A unique ID
- Name
- Contact number
- Research Lab

Students are required to join at least one research group. Each student must also have a supervisor who is a faculty member in the group.

The department organizes various research projects, each with:

- A unique project title
- A start date
- An estimated end date
- A research area

Faculty members and students collaborate on these projects. Only students who are pre-registered with the department can join projects. Faculty members can supervise multiple projects, while students can work on one project at a time.

Every year, research works are published in conferences by students and faculty. For each publication, the department records:

- The title of the research paper
- The conference name
- The publication date
- The research domain
- A brief summary

Your tasks:

1. Draw an ER Diagram that represents the entities and relationships in this system
Use draw.io to create the ER Diagram. **Export** the finished diagram to a **.pdf** file and include it in your submission.
2. Convert the ER Diagram into SQL code (Data Definition Language) to define the tables, constraints, and relationships.
3. Finally, write SQL statements to delete all tables created.