# **CSCI X370: Database Management**

## **Final Term Project: Database/Web Application**

**You are expected to finish a Term Project with the following requirements:**

* A Database/Web Application is required: a project needs to use [MySQL](https://www.mysql.com/products/community) or PostgreSQL (unless permission) as a database backend. A database should have five tables.
* Real-world data is required: either collect from web, including social media, other databases or generate through human-activity. No toy-data is allowed.
* Large data is required: a project needs to use a significant number of tuples. Minimum number of tuples must be 1000. In some situations, computer-generated data will be permissible (with permission).
* A project needs to use database design in EER, normalization process and indexing capabilities of the database backend.
  + Design 1: EER Diagram
  + Design 2: BCNF Decomposition
  + Design 3: 3NF Synthesis
* A Web Framework is required for the GUI.
* Application may be coded in Java or other programming languages.

**What to submit initially:** A proposal – team leaders submit through ELC:

* Min 1, max 2 pages document.
* Pdf or MS Word.
* 11 pts font size.
* Single space.
* Expected sections: a title, original contributions (what is new?), brief description, sample analytical queries, preliminary EER diagram, database access (JDBC, Ebeans, Hibernate etc.), Web Framework, conclusion (optional: references).
* If you plan to request a waiver for MySQL/PostgreSQL requirements above please include an additional justification page (up to a single page).

**How to Submit:**

Submit your ".zip" file using ELC. Only team leaders need to make a submission.

Do not place your solution on a public web site. Submit your own work and follow the course misconduct policy.